



**GOKUL
GLOBAL
UNIVERSITY**

Approved By Govt. of Gujarat
(Recognized by UGC under Section 22 & 2(f) of 1956)
(Gujarat Private State University Act 4 of 2018)

COURSE STRUCTURE

As Per National Education Policy -2020

Bachelor of Arts

Economics-Sem-1



FACULTY OF ARTS, HUMANITIES & SOCIAL SCIENCES
GOKUL ARTS COLLEGE



University Campus, State Highway-41, Siddhpur - 384151, Dist. Patan, Gujarat, INDIA
E: dean.fac.hum@gokuluniversity.ac.in W: www.gokuluniversity.ac.in M: +91 95109 73859



1.1.1 Details of Programmes Outcomes (PO), Programmes Specific Outcomes (PSO) & Course Outcomes (CO)

PROGRAM OUTCOMES (PO)

PO 1	Critical thinking skills: Graduates will be able to analyze complex information, evaluate arguments, and think critically to solve problems.
PO 2	Effective communication: Graduates will demonstrate proficiency in written and oral communication skills, including the ability to express ideas clearly and persuasively.
PO 3	Research skills: Graduates will be able to conduct independent research, gather relevant data, and analyze information to support their arguments.
PO 4	Cultural awareness: Graduates will have a deep understanding of diverse cultures, perspectives, and traditions, fostering empathy and appreciation for cultural differences.
PO 5	Ethical reasoning: Graduates will develop ethical reasoning skills and demonstrate an understanding of ethical issues within their field of study.
PO 6	Creative thinking: Graduates will be able to think creatively, generate innovative ideas, and apply artistic principles to their work.
PO 7	Collaboration and teamwork: Graduates will possess the ability to work effectively in teams, demonstrating leadership skills and contributing to collective goals.



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PO 8	Global perspective: Graduates will have an awareness of global issues and their impact, recognizing the interconnectedness of the world.
PO 9	Adaptability and flexibility: Graduates will be able to adapt to changing environments, learn new skills, and embrace lifelong learning.

PROGRAM SPECIFIC OUTCOMES

PSO1	• Literary Knowledge: Demonstrate a comprehensive understanding of major literary periods, movements, genres, and canonical works in English literature.
PSO 2	• Multicultural Perspectives: Explore and appreciate the diversity of voices and perspectives in literature, including works by authors from different cultural, ethnic, and geographic backgrounds.



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Structure of Economics: First Semester, Session-2023-24

Sr. No.	Subject/ Course	Title of Course	Course credit	Hours Per Week	Weightage for Internal Examination	Weightage for Semester Examination	Total marks
1	CPMJDSCECO101	Principles of Economic Analysis	04	04	50	50	100
2	CPMJDSCECO101A	Indian Economy	04	04	50	50	100
3	CPMIDSCECO102	Microeconomics	04	04	50	50	100
3	OR CPMIDSCECO102A	OR Co-operative Movement in India-1	04	04	50	50	100
4	CPMDCECO103 CPMDCECO103A	Elementary Economics-1 OR Co-operation-1	04	04	50	50	100
4			04	04	50	50	100
5	CPIKSECO105	Indian Economics Thinkers & Traditional Economic Ethics	02	02	25	25	50
6	CPSECECO106	Functional Banking	02	02	25	25	50



Gokul Global University, Siddhpur.



Faculty of Arts and humanities
New Syllabus NEP-2020
4th Year Graduation Programme
Session-2023-24

Program:	Bachelor of Arts	Subject / Branch:	Economics
Year:	2023-24	Semester:	I
Course title:	Principles of Economic Analysis	Course code:	CPMJDSCECO101
Course type:	Theory (Major)	Course credit:	04
Pre-requisite :	Basic Knowledge of Economics		
Rationale :	How benefits are treated, however, determines the type of economic study. Three basic types of economic study are common to the medical literature: cost-identification analysis, cost-effectiveness analysis, and cost-benefit analysis.		

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE		
			30	20	50	100

Course Objective:

1. To provide the students with thorough analytical understanding to analyze public goods, externalities, market failures; economics of government expenditure, taxation and public borrowing; 2. To critically analyze fiscal policies/finance and its implication in Indian Economy.

Course Outcome:

Economic analysis essentially entails the evaluation of costs and benefits. It starts by ranking projects based on economic viability to aid better allocation of resources. It aims at analyzing the welfare impact of a project.

Unit	Description in detail	Hours	Weightage
I	Introduction of Economics, Definition of Economics, Nature, Scope & History of Economics, Form of Economics, Special concept of Economics, wealth, natural resources, Utility, Demand & Supplies, Value, Market, National income.	15	25%
II	Demand and Supply: Meaning and laws of Demand. Extension of demand and contraction of demand, increase and decrease of demand; Meaning and laws of Supply. Extension of supply and contraction of supply, Increase and decrease of supply.	15	25%
III	Introduction of Utility analysis: Definition of Utility, Cardinal utility analysis assumption, Concept of marginal utility, Concept of total utility,		



	Difference between marginal and total utility; Ordinal Utility analysis- Concepts of scale of preference, concept of Indifference schedule and indifference curve, Marginal rate of substitution.	15	25%		
IV	Market, Type of Market, Competitive Market, Monopoly, Factors of Production- Land, labour meaning, characteristics.	15	25%		
Distribution of Theory Marks					
R Level	U Level	A Level	N Level	E Level	c Level
20	30	20	10	10	10

Legends- R- Remembrance, U-Understanding, A- Application, N-Analyze, E- Evaluate, C- Creation and above Levels.

Reference Books:

- (1) K.K. Dewett & J D Varma (1994) Elementary Economic Theory, S chand and compny New Delhi
- (2) Johan Black, Nigar Hashimzade and Jarethmyles (2013) oxford Dictionry of Economics Oxford University Press
- (3) Introduction to Economic Theory : Micro-Economics oxford university press Delhi
- (6) Dewett K.K: Modern Economic Theory, S.Chand, & Co. Ltd. New Delhi.

Suggested Readings:

- (1) K.K. Dewett & J D Varma (1994) Elementary Economic Theory, S chand and compny New Delhi
- (2) (6) Dewett K.K: Modern Economic Theory, S.Chand, & Co. Ltd. New Delhi.
- (3) (7) Jhingan. M.L. : Principal of Economics, Vrinda Publication, Delhi,

ON LINE Books:-

<https://open.umn.edu/opentextbooks/textbooks/193>

<https://www.thoughtco.com/online-microeconomics-textbook-1147732>

Course Outcomes	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PSO-1	PSO-2
CO-1	2	2	2	1	-	2	2	3	1	2	2	2
CO-2	2	2	3	-	-	1	3	3	2	1	2	1
CO-3	1	2	2	-	1	1	-	2	1	2	-	2
CO-4	1	-	1	-	-	-	1	2	-	-	-	-



Gokul Global University, Siddhapur.



Faculty of Arts and humanities
New Syllabus NEP-2020
4th Year Graduation Programme
Session-2023-24

Program:	Bachelor of Arts	Subject / Branch:	Economics
Year:	2023-24	Semester:	I
Course title:	Indian Economy	Course code:	CPMJDSCECO101A
Course type:	Theory (Major)	Course credit:	04
Pre-requisite :	Knowledge of Different Part of Indian Economics		
Rationale :	Economic planning in India refers to the process of creating a long-term vision and strategy for the country's economic development. Economic planning in India started in 1951 with the adoption of the First Five-Year Plan, which was designed to promote economic growth, reduce poverty and unemployment, and improve the standard of living of the people.		

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme		
Lecture	Tutorial	Practical	Internal		External
			Mid	CE	Total
2	1	0	15	15	70
					100

Course Objective:

The main objective of economic planning in India is to achieve rapid economic growth while promoting social justice and reducing poverty. This has been achieved through various Five-Year Plans, which outline the country's economic and social goals, and the policies and strategies required to achieve them.

Course Outcome:

Students will learn the major policy regimes of government and also try to resolve problems from agriculture, industry and service sector of India. Students will understand the change in policy focus from central planning to process of market integration of the Indian Economy with other markets in the world.

Unit	Description in detail	Hours	Weightage
I	Introduction of Indian Economics, surface of India, climate of India, Natural Resources, States of India, Classification of Countries of the world in terms of economic development.	15	25%



II	Population Principle of demographic transition, size and trends of population in India; concept of birth rate. mortality infant mortality rate, growth rate, rural- urban population, literacy rate and life expectancy; Causes of population explosion and its effects on Indian economy.	15	25%
III	Problems of poverty and unemployment Meaning and nature of poverty (absolute and relative poverty) Meaning and types of unemployment estimates of unemployment in India, Causes and remedies of unemployment.	15	25%
IV	Natural Resources in India Importance of Natural resources in economic development; Land, Forest, Water and Mineral.	15	25%

Distribution of Theory Marks					
R Level	U Level	A Level	N Level	E Level	C Level
20	30	20	10	10	10

Legends- R- Remembrance, U-Understanding, A- Application, N-Analyze, E- Evaluate, C- Create and above Levels.

Reference Books:

1. DewettK.K: Modern Economic Theory, S.Chand, & Co. Ltd. New Delhi.
2. Jhingan. M.L. : Principal of Economics, Vrinda Publication, Delhi,
3. Ahuja H.L: Indian Economics, S.Chand, & Co. Ltd. New Delhi.
4. Agrawal H.S.: Economic Theory, Konark Publishers Pvt. Ltd. New Delhi.
5. Parkin, Micha: Indian Economics, Addiison Willey Publishing Co., New York.

Suggested Readings:

1. Ahuja H.L: Indian Economic Theory, S.Chand, & Co. Ltd. New Delhi.
2. Agrawal H.S.: Indian Economic Theory, Konark Publishers Pvt. Ltd. New Delhi.
3. DewettK.K: Modern Economic Theory, S.Chand, & Co. Ltd. New Delhi.

Online Resources:

<https://open.umn.edu/opentextbooks/textbooks/193>

<https://www.thoughtco.com/online-microeconomics-textbook-1147732>

Course Outcomes	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PSO-1	PSO-2
CO-1	3	2	2	-	-	2	2	3	2	2	2	2
CO-2	1	3	2	-	-	1	2	2	3	1	2	1
CO-3	1	2	2	-	-	1	-	2	1	2	1	2
CO-4	1	-	1	-	-	-	1	2	-	-	-	-



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Faculty of Arts and humanities
New Syllabus NEP-2020
4th Year Graduation Programme
Session-2023-24

Program :	Bachelor of Arts	Subject / Branch :	Economics
Year :	2023-24	Semester :	I
Course title :	Micro Economics	Course code :	CPMIDSCECO102
Course type :	1 st Minor (Optional)	Course credit :	04
Pre-requisite :	Basic Knowledge of Economics/ Minor Paper		
Rationale :	How benefits are treated, however, determines the type of economic study. Three basic types of economic study are common to the medical literature: cost-identification analysis, cost-effectiveness analysis, and cost-benefit analysis.		

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme		
Lecture	Tutorial	Practical	Internal		External
			Mid	CE	Total
4	0	0	30	20	50
					100

Course Objective:

Economic analysis assesses financial and other costs and benefits for operating a program, project or business venture. It is used to determine if resources are being used appropriately and effectively. Costs and benefits of a course of action or a program are evaluated, and the best course of action is selected.

Course Outcome:

Economic analysis essentially entails the evaluation of costs and benefits. It starts by ranking projects based on economic viability to aid better allocation of resources. It aims at analyzing the welfare impact of a project.

Unit	Description in detail	Hours	Weightage
I	Introduction Definition of Economics, Nature & Scope of Economics, Methodology in economics, Meaning and causes of Basic economic problems; Basic postulates.	15	25%
II	Demand and Supply: Meaning and laws of Demand. Extension of demand and contraction of demand, increase and decrease of demand; Meaning and laws of Supply. Extension of supply and contraction of supply, Increase and decrease of supply.	15	25%
III	Introduction of Utility analysis - Definition of Utility, Cardinal utility analysis- assumption,		



	Concept of marginal utility, Concept of total utility, Difference between marginal and total utility; Ordinal Utility analysis - Concepts of scale of preference, concept of Indifference schedule and indifference curve, Marginal rate of substitution.	15	25%		
IV	Elasticity of Demand, Meaning of Elasticity of Demand Meaning and Types of Price Elasticity of demand, Importance of Price Elasticity of demand, Factors determining of price elasticity.	15	25%		
Distribution of Theory Marks					
R Level	U Level	A Level	N Level	E Level	c Level
20	30	20	10	10	10

Legends- R- Remembrance, U-Understanding, A- Application, N-Analyze, E- Evaluate, C- Creation and above Levels.

Reference Books:

2. Agrawal H.S.: Advance Economic Theory, Konark Publishers Pvt. Ltd. New Delhi.
3. Dewett K.K: Modern Economic Theory, S. Chand, & Co. Ltd. New Delhi.
4. Jhingan. M.L. : Principal of Economics, Vrinda Publication, Delhi,
5. Parkin, Micha: Micro Economics, Addison Willey Publishing Co., New York.
6. Reynolds.R. Larry :Basic Microeconomics, A Textbook Equity Open* College Textbook, 2011, WWW.opencollegertextbooks.org

Suggested Readings:

2. Samuelson, P. A (1998) Economics, Tata McGraw Hill, New Delhi.
3. Rader, T (2014) Theory of microeconomics. Academic Press.
4. Tewari, D. D (2003) Principles of microeconomics. New Age International

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<https://open.umn.edu/opentextbooks/textbooks/193>

<https://www.thoughtco.com/online-microeconomics-textbook-1147732>

Course Outcomes	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PSO-1	PSO-2
CO-1	3	2	3	1	-	3	1	2	2	1	2	2
CO-2	2	1	3	-	1	1	2	3	2	1	2	1
CO-3	1	2	2	-	-	1	-	2	1	2	-	2
CO-4	-	-	1	-	-	-	1	2	-	-	-	-



Gokul Global University, Siddhapur.



Faculty of Arts and Humanities New Syllabus NEP-2020 4th Year Graduation Programme Session-2023-24

Program:	Bachelor of Arts	Subject / Branch:	Economics
Year:	2023-24	Semester:	I
Course title:	Co-operative Movement in India-1	Course code:	CPMIDSCECO102A
Course type:	Minor (Optional)	Course credit:	4
Pre-requisite :	Knowledge of Different Part of Indian Economics		
Rationale :	Economic planning in India refers to the process of creating a long-term vision and strategy for the country's economic development. Economic planning in India started in 1951 with the adoption of the First Five-Year Plan, which was designed to promote economic growth, reduce poverty and unemployment, and improve the standard of living of the people.		

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
2	1	0	Mid	CE		
			15	15	70	100

Course Objective:

The main objective of economic planning in India is to achieve rapid economic growth while promoting social justice and reducing poverty. This has been achieved through various Five-Year Plans, which outline the country's economic and social goals, and the policies and strategies required to achieve them.

Course Outcome:

1. Students will learn the major policy regimes of government and also try to resolve problems from agriculture.
2. Industry and service sector of India.
3. Students will understand the change in policy focus from central planning to the process of market
4. Integration of the Indian Economy with other markets in the world.

Unit	Description in detail	Hours	Weightage



I	Meaning and definitions of co-operation and its origin and development, co-operative development in India during five years plans	15	25%		
II	Position of co-operation in developing countries, Panchayati Raj and co-operative movement, Achievements and limitations of co-operative activity in India	15	25%		
III	Bank role and the working in Agricultural credit and Agricultural development – Reserve Bank of India, Land development Bank, State Bank of India, co-operative Banks.	15	25%		
IV	Objects and function of co-operative societies: Spinning Mills, Sugar factories, co-operatives of milk producers, Union co-operative Ginning, oil and rice Mills.	15	25%		
Distribution of Theory Marks					
R Level	U Level	A Level	N Level	E Level	c Level
20	30	20	10	10	10

Legends- R- Remembrance, U-Understanding, A- Application, N-Analyze, E- Evaluate, C- Creation and above Levels.

Suggested Readings:

2. Samuelson, P. A (1998) Economics, Tata McGraw Hill, New Delhi.
3. Rader, T (2014) Theory of microeconomics. Academic Press.
4. Tewari, D. D (2003) Principles of microeconomics. New Age International

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Course Outcomes	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PSO-1	PSO-2
CO-1	2	2	2	-	-	2	3	2	2	2	2	1
CO-2	3	2	2	-	1	1	2	3	1	2	2	1
CO-3	1	2	1	1	-	1	-	2	1	2	-	2
CO-4	1	-	1	-	-	-	1	2	-	-	-	-



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Faculty of Arts and humanities
New Syllabus NEP-2020
4th Year Graduation Programme
Session-2023-24

Program:	Bachelor of Arts	Subject / Branch:	Economics
Year:	2023-24	Semester:	I
Course title:	Elementary Economics-1 (Optional)	Course code:	CPMDCECO103
Course type:	Multidisciplinary Course	Course credit:	4
Pre-requisite :	Basic Knowledge of Economics/ Multidisciplinary Paper		
Rationale :	How benefits are treated, however, determines the type of economic study. Three basic types of economic study are common to the medical literature: cost-identification analysis, cost-effectiveness analysis, and cost-benefit analysis.		

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE		
			30	20	50	100

Course Objective:

Economic analysis assesses financial and other costs and benefits for operating a program, project or business venture. It is used to determine if resources are being used appropriately and effectively. Costs and benefits of a course of action or a program are evaluated, and the best course of action is selected.

Course Outcome:

Economic analysis essentially entails the evaluation of costs and benefits. It starts by ranking projects based on economic viability to aid better allocation of resources. It aims at analyzing the welfare impact of a project.

Unit	Description in detail	Hours	Weightage
I	Basic Concept of economics Variables: I Definition of Economics (Adam smith. Marshal. Robins); Meaning of Demand and Supply, factors affecting of demand and supply, Meaning and causes of Basic economic problems: Human wants : meaning and characteristics.	15	25%
II	Basic Concept of economics Variables: II Utility: Meaning, types and characteristics: Concept of per capita income and national income. Characteristic Private & public goods.	15	25%
	Factors of Production: Meaning and characteristics of Labour. Division of labour: merit		



Gujarat Private State University /					
III	anddemerit. Meaning and characteristics of Land. Meaning and characteristics of Capital. Meaning and characteristics of Entrepreneur.			15	25%
IV	Concept of Money: Definition, type and function of money: Gresham's law. Value of money. difference between value and price..			15	25%
Distribution of Theory Marks					
R Level	U Level	A Level	N Level	E Level	c Level
20	30	20	10	10	10

Legends- R- Remembrance, U-Understanding, A- Application, N-Analyze, E- Evaluate, C- Creation and above Levels.

Reference:

1. Ahuja H L L Business Economics, S Chand & Co, New Delhi
2. Dewett K K Modern economic theory, S Chand & Co Ltd New Delhi
3. Ahuja H L Macro Economic Theory & Policy, S Chand & Co Ltd New Delhi
4. John P.Gould, Jr.and Edward P.Lazear, Micro economic Theory, all india traveler, Delhi.
5. Browning Edger K. and Browning Jacquenlence M: Microeconomic Theory and Applications. kalyani. New Delhi

Further Reading:

- 1.Waston Donald S. and Getz Moloclim: Price Theory and Its Uses, Khoslapublishihng house, New Delhi
- 2.Koutsoyianni A.: Modern Microeconomics, Macmillan, New Delhi.
3. Rechard G, Lipsey: Introduction to positive Economics, ELBS, Oxford
4. Stigler G: The theory of prince, prentice Hall of India.
5. Nellis & Parker: The Essence of Business Economics, Prentice Hall, New Delhi

ON LINE Books:-

<https://open.umn.edu/opentextbooks/textbooks/193>

<https://www.thoughtco.com/online-microeconomics-textbook-1147732>

Course Outcomes	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PSO-1	PSO-2
CO-1	2	2	3	1	-	2	2	2	2	2	2	1
CO-2	2	2	3	-	-	1	2	3	2	1	1	1
CO-3	2	2	2	-	-	1	-	2	1	1	-	2
CO-4	1	-	1	-	1	-	1	2	-	-	-	-



Gokul Global University, Siddhpur.



Faculty of Arts and humanities New Syllabus NEP-2020 4th Year Graduation Programme Session-2023-24

Program:	Bachelor of Arts	Subject / Branch:	Economics
Year:	2023-24	Semester:	I
Course title:	Co-operation-1(Optional)	Course code:	CPMDCECO103A
Course type:	Multidisciplinary Course	Course credit:	4
Pre-requisite :	Basic Knowledge of Economics/ Minor Paper		
Rationale :	How benefits are treated, however, determines the type of economic study. Three basic types of economic study are common to the medical literature: cost-identification analysis, cost-effectiveness analysis, and cost-benefit analysis.		

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme		
Lecture	Tutorial	Practical	Internal		External
			Mid	CE	Total
4	0	0	30	20	50
					100

Course Objective:

Economic analysis assesses the financial and other costs and benefits for operating a program, project or business venture. It is used to determine if resources are being used appropriately and effectively. Costs and benefits of a course of action or a program are evaluated, and the best course of action is selected.

Course Outcome:

Economic analysis essentially entails the evaluation of costs and benefits. It starts by ranking projects based on economic viability to aid better allocation of resources. It aims at analyzing the welfare impact of a project.

Unit	Description in detail	Hours	Weightage
I	Genesis of co-operation definitions and salient features of Co-Operation, Principles of Co-Operation as reformulated by ICA.	10	40%
II	Structure of Co-Operative Organization. Primary, Central and Apex Institutions: Their functions and their interrelationship. Importance of Co-Operative Education and Training.	10	30%
III	Functions of Credit Societies and Non-credit Societies: 1. Primary Agricultural Co-Operative Credit Societies. 2. Co-Operative Marketing Societies		



3. Co-Operative Consumers Societies 4. Co-Operative Housing Societies 5. Women's Co-Operative Societies Co-operation as Economics system Co-operation and Capitalism Co-operation and Socialism Co-operation and Trade union Co-operation and Partnership				10	30%
Distribution of Theory Marks					
R Level	U Level	A Level	N Level	E Level	c Level
20	30	20	10	10	10

Legends- R- Remembrance, U-Understanding, A- Application, N-Analyze, E- Evaluate, C- Creation and above Levels.

Reference:

1. Theory and practice of co-operation in India and abroad
2. Theory, History and practice of Co-operation
3. Cooperation in India
4. Co-operation in India

K.R. Kulakarni
R.D. Bedi
Dr. B.S. Mathur
Dr. C.B. Mamoria

Course Outcomes	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)											
	PO- 1	PO- 2	PO- 3	PO- 4	PO- 5	PO- 6	PO- 7	PO- 8	PO- 9	PO- 10	PSO- 1	PSO- 2
CO-1	3	2	3	-	-	2	2	3	2	2	2	2
CO-2	2	2	3	-	-	1	2	3	2	1	2	1
CO-3	1	2	2	-	-	1	-	2	1	2	-	2
CO-4	1	-	1	-	-	-	1	2	-	-	-	-



Gokul Global University, Siddhpur.



Faculty of Arts and Humanities New Syllabus NEP-2020 4th Year Graduation Programme Session-2023-24

Program:	Bachelor of Arts	Subject / Branch:	Economics
Year:	2023-24	Semester:	I
Course title:	Indian Economics Thinkers & Traditional Economic Ethics	Course code:	CPIKSECO105
Course type:	Indian Knowledge System	Course credit:	2
Pre-requisite :	Basic Knowledge of Economics/ Minor Paper		
Rationale :	How benefits are treated, however, determines the type of economic study. Three basic types of economic study are common to the medical literature: cost-identification analysis, cost-effectiveness analysis, and cost-benefit analysis.		

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE		
			25	00	25	50

Course Objective:

Economic analysis assesses the financial and other costs and benefits of operating a program, project, or business venture. It is used to determine if resources are being used appropriately and effectively. The costs and benefits of a course of action or a program are evaluated, and the best course of action is selected.

Course Outcome:

1. Economic analysis essentially entails the evaluation of costs and benefits.
2. It starts by ranking projects based on economic
3. viability to aid better allocation of resources.
4. It aims at analyzing the welfare impact of a project.

Unit	Description in detail	Hours	Weightage
I	INDIAN ECONOMIC THINKERS-1 The economic thought of Chanky Economic thought of Dadabhainavroji Economic Thought of Dr. B.R. Ambedkar	10	35%



II	INDIAN ECONOMIC THINKERS-1 Economic Thought of Dindyalupadhyay The economic thought of Vinobhabhave(Related to land) The economic thought of Naraharnparikh(The context of Human Economics)	10	35%		
III	Importance of Gandhiji's economic ideas m the present situation; Indian traditional economic ethics related concept- maha jnparpara, Gochar, upravan, khalu etc...	10	30%		
Distribution of Theory Marks					
R Level	U Level	A Level	N Level	E Level	c Level
20	30	20	10	10	10

Legends- R- Remembrance, U-Understanding, A- Application, N-Analyze, E- Evaluate, C- Creation and above Levels.

Basic Reading

1. Naoroji, Dadabhai, Poverty and Un-british Rule in india by
2. ગાંધી.એમ.કે. : સત્યના પ્રયોગો.નવજીવન પ્રેસ, ગુજરાત વિદ્યાપીઠ અમદાવાદ
3. kautily nu arthshastr
3. Abedakar B.R.. The Problem of the Rupee: its origin and its solution/Also see its other work related to economy
4. JAIN, Surendra Prasad Economic Ideas of Pandit Deendayal Upadhyayaby, Deep and deep Publication, NEW Dehli
5. ભાવે વિનોબા ભૂદાન યોજના. નવજીવન પ્રકાશન, અમદાવાદ
5. પરીખ એન. (૨૦૦૪), માનવ અર્થશાસ્ત્ર અર્થશાસ્ત્ર, અમદાવાદ

Course Outcomes	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PSO-1	PSO-2
CO-1	2	2	2	-	-	2	2	2	2	2	2	2
CO-2	2	1	3	-	-	1	2	-	1	1	2	1
CO-3	1	2	2	-	1	1	-	2	1	2	-	2
CO-4	1	-	1	-	-	-	1	2	-	-	-	-



Gokul Global University, Siddhpur.



Faculty of Arts and humanities New Syllabus NEP-2020 4th Year Graduation Programme Session-2023-24

Program :	Bachelor of Arts	Subject / Branch:	Economics
Year :	2023-24	Semester:	I
Course title :	Functional Banking	Course code:	CPSECECO106
Course type :	Skill Enhancement Course	Course credit:	2
Pre-requisite :	Basic Knowledge of Economics/ Minor Paper		
Rationale :	How benefits are treated, however, determines the type of economic study. Three basic types of economic study are common to the medical literature: cost-identification analysis, cost-effectiveness analysis, and cost-benefit analysis.		

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE	25	50
			25	00		

Course Objective:

Economic analysis assesses financial and other costs and benefits for operating a program, project or business venture. It is used to determine if resources are being used appropriately and effectively. Costs and benefits of a course of action or a program are evaluated, and the best course of action is selected.

Course Outcome:

- 1.It provides adequate basic understanding about banking, insurance and other financial services, among the students.
2. Interdisciplinary- Understand and employ the interdisciplinary approach of various concepts learned in Banking and Insurance & its association with the various fields of study.
- 3.It inculcates training and practical approach among the students by using modern technologies in the field of banking, insurance etc.

Unit	Description in detail	Hours	Weightage
I	Meaning of bank, types of banks, functions of commercial bank, the process of credit creation. Recent Change in Banking Sector.	12	35%
II	Meaning of Central Bank, function of Central Bank (With Reference to Reserve Bank of India) Monetary policy of Reserve Bank of India.	10	35%
	Meaning of E-Banking, Function of E-Banking. Meaning of High-tech		



III	bank within bank and its features, Advantages and limitations of E-Banking Introduction of RTGS, NEFT, IMPS, PFMS, Introduction of various Digital Wallets like Google Pay, Phone Pe, Pay TM, Mobikwik, Yono By SBI etc. in India & UPI Payment, Introduction BHIM	10	30%		
Distribution of Theory Marks					
R Level	U Level	A Level	N Level	E Level	c Level
20	30	20	10	10	10

Legends- R- Remembrance, U-Understanding, A- Application, N-Analyze, E- Evaluate, C- Creation and above Levels.

Reference: Reference List:

1. Mithani D.M., Money, Banking, International Trade and Public Finance, Himalaya Publishing House, New Delhi, 2009.
2. Shivastava P.K., Banking Theory and Practice, Himalaya Publishing House, New- Delhi, 2009.
3. Ahuja H.L, Macro Economics: Theory and Policy, S.Chand, New Delhi, 2009.
4. RBI Bulletin and various RBI Report.
5. Kapila Raj & Uma Kapila, India's Economy in to the 21 century, Academic Foundation, New-Delhi 2002.

Course Outcomes	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PSO-1	PSO-2
CO-1	2	3	2	-	-	2	3	3	2	3	2	2
CO-2	2	2	3	-	-	1	2	3	2	1	2	1
CO-3	2	2	2	1	-	1	-	2	1	2	-	2
CO-4	1	-	1	-	1	-	1	2	-	-	-	-



Gokul Global University, Siddhpur.



Faculty of Arts and humanities
New Syllabus NEP-2020
4th Year Graduation Programme
Session-2023-24

Subject: - Economics

Sr. No.	Subject/ Course	Title of Course	Course credit	Hours per week	Weightage for Internal Examination	Weightage for Semester Examination	Total marks
1	CPMJDSCECO201	Banking and Public Economics	04	0	50	50	100
2	CPMJDSCECO201A	Micro Economics Analysis	04	04	50	50	100
3	CPMIDSCECO202	Micro Economics OR	04	04	50	50	100
3	OR CPMIDSCECO202A	Co-operative Movement in India-1	04		50	50	100
4	CPMDCECO203 OR	Elementary Economics-1 OR	04	04	50	50	100
4	CPMDCECO203A	Co-operation-1	02	02	25	25	50
5	CPIKSECO205	Gandhian Economics	02	02	25	25	50
6	CPSECECO206	Banking And Financial Services	02	02	25	25	50



Structure of the NEP in Economics: Second Semester.

Details of Programmes Outcomes (PO), Programmes Specific Outcomes (PSO) & Course Outcomes (CO) PROGRAM OUTCOMES (PO)

PO 1	Critical thinking skills: Graduates will be able to analyze complex information, evaluate arguments, and think critically to solve problems.
PO 2	Effective communication: Graduates will demonstrate proficiency in written and oral communication skills, including the ability to express ideas clearly and persuasively.
PO 3	Research skills: Graduates will be able to conduct independent research, gather relevant data, and analyze information to support their arguments.
PO 4	Cultural awareness: Graduates will have a deep understanding of diverse cultures, perspectives, and traditions, fostering empathy and appreciation for cultural differences.
PO 5	Ethical reasoning: Graduates will develop ethical reasoning skills and demonstrate an understanding of ethical issues within their field of study.
PO 6	Creative thinking: Graduates will be able to think creatively, generate innovative ideas, and apply artistic principles to their work.
PO 7	Collaboration and teamwork: Graduates will possess the ability to work effectively in teams, demonstrating leadership skills and contributing to collective goals.
PO 8	Global perspective: Graduates will have an awareness of global issues and their impact, recognizing the interconnectedness of the world.
PO 9	Adaptability and flexibility: Graduates will be able to adapt to changing environments, learn new skills, and embrace lifelong learning.



PROGRAM SPECIFIC OUTCOMES

PSO1	•Literary Knowledge: Demonstrate a comprehensive understanding of major literary periods, movements, genres, and canonical works in English literature.
PS0 2	•Multicultural Perspectives: Explore and appreciate the diversity of voices and perspectives in literature, including works by authors from different cultural, ethnic, and geographic backgrounds.



Gokul Global University, Siddhpur.



Faculty of Arts and Humanities New Syllabus NEP-2020 4th Year Graduation Programme Session-2023-24

Program :	Bachelor of Arts	Subject / Branch:	Economics
Year:	2023-24	Semester:	II
Course title:	Banking and Public Economics	Course code:	CPMJDSCECO201
Course type:	Theory Major	Course credit:	4
Pre-requisite :	Knowledge of Micro Economics & Banking		
Rationale :	How benefits are treated, however, determines the type of economic study. Three c types of economic study are common to the Economic literature, cost-identification analysis, cost effectiveness analysis, and cost-benefit analysis.		

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme		
Lecture	Tutorial	Practical	Internal		External
			Mid	CE	Total
4	0	0	30	20	50
					100

Course Objective:

1. To provide the students with a thorough analytical understanding to analyze public goods, externalities, market failures; economics of government expenditure, taxation, and public borrowing.
2. To critically analyze fiscal policies/finance and their implications in the Indian Economy.
3. Economic analysis essentially entails the evaluation of costs and benefits. It starts by ranking projects based on economic viability to aid better allocation of resources.

Course Outcome:

1. It aims to provide the students with an introduction to understanding the concept of money,
2. Theories of money supply and money demand and working of monetary policy.
3. It provides an insight into the Banking system. Explain and discuss why people hold money
54. Understand the workings of the monetary policy. Describe the working of commercial banks
Understand the role and functioning of RBI

Unit	Description in detail	Hours	Weightage
I	Commercial Banking: A critical appraisal of the progress of commercial banking after nationalization, Recent reforms in banking sector in India, Concept of Foreign And Private Banks, function of state and district co-operative Bank.	15	25%



II	Central Banking: Meaning of Central bank, Functions of central bank (Reserve Bank of India), Quantitative and qualitative methods of credit control - bank rate policy, open market operations, variable reserve ratio and selective methods, concept of Repo rate and reverse Repo rate, Objectives and limitation of monetary policy with special reference to India.	15	25%
III	Commercial Banking: A critical appraisal of the progress of commercial banking after nationalization, Recent reforms in banking sector in India, Quantitative and qualitative methods of credit control - open market operations, variable reserve ratio and selective methods, Bank rate policy, concept of Repo rate and reverse Repo rate, Objectives and limitation of monetary policy with special reference to India.	15	25%
IV	Public Economics- Meaning of Public Finance, instruments of Public Finance - Concept of Public expenditure, Causes of increasing public expenditure; Meaning, types and effects public debt. Public Economics-Meaning and types of tax, Merit, and demerits of direct and indirect taxes, the concept of GST and its effects.	15	25%

Distribution of Theory Marks

R Level	U Level	A Level	N Level	E Level	c Level
20	30	20	10	10	10

Legends- R- Remembrance, U-Understanding, A- Application, N-Analyze, E- Evaluate, C- Creation and above Levels.

Reference Books:

- (1) K.K.Dewett& J D Varma (1994) Elementary Economic Theory, S Chand and company New Delhi
- (2) Johan Black, NigarHashimzade and jarethmyles (2013) oxford Dictionary of Economics Oxford University Press
- (3) Introduction to Economic Theory : Micro-Economics Oxford University Press Delhi
- (4) Laider David 1974Introduction to Micro-Economics Basic Books Inc. Publishers New Delhi
- (5) Dobbm 1979 Theories of Value and Distribution Since Adam smith. Vikas Publishing House New Delhi

Suggested Readings:

- (1) K.K.Dewett& J D Varma (1994) Elementary Economic Theory, S chand and compny New Delhi
- (2) Dewett K.K: Modern Economic Theory, S.Chand, & Co. Ltd. New Delhi.
- (3) Jhingan. M.L. : Principal of Economics, Vrinda Publication, Delhi,
- (4) **ON LINE Books:-** <https://open.umn.edu/opentextbooks/textbooks/193>
- (5)



Course Outcomes	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PSO-1	PSO-2
CO-1	2	3	2	1	-	2	2	3	1	2	2	2
CO-2	2	1	2	-	-	1	3	-	-	-	2	1
CO-3	1	2	2	-	1	1	-	2	1	2	-	2
CO-4	1	-	1	1	-	-	1	2	-	-	-	-



Gokul Global University, Siddhpur.

Faculty of Arts and Humanities New Syllabus NEP-2020 4th Year Graduation Programme Session-2023-24



Program:	Bachelor of Arts	Subject / Branch:	Economics
Year:	2023-24	Semester:	II
Course title:	Micro Economics Analysis	Course code:	CPMJDSCECO201A
Course type:	Theory Major	Course credit:	4
Pre-requisite :	Knowledge of Micro Economics & Banking		
Rationale :	How benefits are treated, however, determines the type of economic study. Three c types of economic study are common to the Economic literature, cost-identification analysis, cost effectiveness analysis, and cost-benefit analysis.		

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme		
Lecture	Tutorial	Practical	Internal		Total
			Mid	CE	
4	0	0	30	20	50
					100

Course Objective:

1. To provide the students with a thorough analytical understanding to analyze public goods, externalities, market failures; economics of government expenditure, taxation, and public borrowing.
2. To critically analyze fiscal policies/finance and their implications in the Indian Economy.

Course Outcome:

1. It aims to provide the students with an introduction to understand the concept of money,
2. Theories of money supply and money demand and working of monetary policy.
3. It provides an insight into the Banking system.
4. Explain and discuss why people hold money. Understand the workings of the monetary policy Describe the working of commercial banks, Understand the role and functioning of RBI

Unit	Description in detail	Hours	Weightage
I	Commercial Banking: A critical appraisal of the progress of commercial banking after nationalization, Recent reforms in banking sector in India, Concept of Foreign And Private Banks, function of state and district co-operative Banks.	15	25%
II	Central Banking: Meaning of Central bank, Functions of central bank (Reserve Bank of India), Quantitative and qualitative methods of credit control - bank rate policy, open market operations, variable reserve ratio and selective methods, concept of Repo rate and reverse Repo rate, Objectives and limitation of monetary policy with special reference to India.	15	25%
	Commercial Banking: A critical appraisal of the progress of commercial banking after nationalization,		



III	Recent reforms in the banking sector in India, Quantitative and qualitative methods of credit control - open market operations, variable reserve ratio and selective methods, Bank rate policy, concept of Repo rate and reverse Repo rate, Objectives and limitation of monetary policy with special reference to India.	15	25%
IV	Public Economics- Meaning of Public Finance, instruments of Public Finance - Concept of Pub expenditure, Causes of increasing public expenditure; Meaning, types and effects public debt. Public Economics-2: Meaning and types of tax, Merit, and demerits of direct and indirect taxes, the concept of GST and its effects.	15	25%

Distribution of Theory Marks

R Level	U Level	A Level	N Level	E Level	c Level
20	30	20	10	10	10

Legends- R- Remembrance, U-Understanding, A- Application, N-Analyze, E- Evaluate, C- Creation and above Levels.

Reference Books:

- (1) K.K. Dewett & J D Varma (1994) Elementary Economic Theory, S chand and compny New Delhi
- (2) Johan Black, Nigar Hashimzade and Jarethmyles (2013) oxford Dictiomry of Economics Oxford University Press
- (3) Introduction to Economic Theory : Micro-Economics oxford university press Delhi
- (4) Laider David 1974 Introduction to Micro-Economics Basic Books Inc. Publishers New Yourk
- (5) Dobbm 1979 Theories of Value and Distribution Since Adam smith. Vikas Publishing House New Delhi

Suggested Readings:

- (1) K.K. Dewett & J D Varma (1994) Elementary Economic Theory, S chand and compny New Delhi
- (2) Dewett K.K: Modern Economic Theory, S.Chand, & Co. Ltd. New Delhi.
- (3) Jhingan. M.L. : Principal of Economics, Vrinda Publication, Delhi,
- (4) ON LINE Books:- <https://open.umn.edu/opentextbooks/textbooks/193>

Course Outcomes	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PSO-1	PSO-2
CO-1	2	2	3	1	-	2	2	3	1	2	2	2
CO-2	2	2	2	1	-	1	3	1	2	2	1	1
CO-3	1	2	2	-	1	1	-	2	1	2	1	2
CO-4	1	-	1	-	-	-	1	2	-	-	-	-



Gokul Global University, Siddhpur.



Faculty of Arts and Humanities New Syllabus NEP-2020 4th Year Graduation Programme Session-2023-24

SEMESTER: - 2nd (Second) Discipline
Specific Course - Major / Core
COURSE NAME: Micro Economics-2

Program:	Bachelor of Arts	Subject / Branch:	Economics
Year:	2023-24	Semester:	I
Course title:	Micro Economics	Course code:	CPMIDSCECO202
Course type:	1 st Minor (Optional)	Course credit:	04
Pre-requisite :	Basic Knowledge of Economics/ Minor Paper		
Rationale :	How benefits are treated, however, determines the type of economic study. Three basic types of economic study are common to the medical literature: cost-identification analysis, cost-effectiveness analysis, and cost-benefit analysis.		

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme		
Lecture	Tutorial	Practical	Internal		External
			Mid	CE	Total
4	0	0	30	20	50
					100

Course Objective:

1. To provide the students with thorough analytical understanding to analyze public goods, externalities, market failures; economics of government expenditure, taxation and public borrowing; 2. To critically analyze fiscal policies/finance and its implication in Indian Economy.

Course Outcome:

Economic analysis essentially entails the evaluation of costs and benefits. It starts by ranking projects based on economic viability to aid better allocation of resources. It aims at analyzing the welfare impact of a project.



Unit No.	Content	Credit	Hours
Unit-1	Elasticity of Demand:- Meaning and types of income elasticity, Importance of income elasticity, Factors determining of income elasticity of demand, Meaning, type and importance of cross elasticity.	1	15
Unit-2	Theory of Production & Cost: Meaning of Production Function, Short run production Function, Law of Diminishing Return; Different concept of Costs (Real Cost, opportunity cost, and monetary cost) and their interrelation.	1	15
Unit-3	Market Structure : Meaning and forms of Markets, Its functions & limitation; Meaning, & Characteristics of perfect competition, monopoly and monopolistic competition.	1	15
Unit-4	Factor Pricing: Basic Concepts of Rent, Interest- Gross Interest and net interest, Wages- Normal wages and real wages; Profit- Gross Profit & Net Profit. Basic concept of economic welfare.	1	15

Reference:

1. Ahuja H.L.: Advance Economic Theory, S.Chand, & Co.Ltd. New Delhi.
2. Agrawal H.S.: Advance Economic Theory, Konark Publishers Pvt.Ltd. New Delhi.
3. Dewett K.K.: Modern Economic Theory, S.Chand, & Co.Ltd. New Delhi.
4. Jhingan. M.L.: Principal of Economics, Vrinda Publication, Delhi,
5. Parkin, Micha: Micro Economics, Addison Willey Publishing Co., New York.
6. Reynolds. R. Larry : Basic Microeconomics, A Textbook Equity Open* College Textbook, 2011, WWW.opencollegetextbooks.org
6. અમીન અર. ડઃ: પ્રિન્સિપલ ઓફ એકોનોમીક્સ, અમદાવાદ

Further Reading:

1. Koutsoyiannis, A (1990) Modern Microeconomics, MacMillan.
2. Samuelson, P.A (1998) Economics, Tata McGraw Hill, New Delhi.
3. Rader, T (2014) Theory of microeconomics. Academic Press.
4. Tewari, D.D (2003) Principles of microeconomics. New Age International

Course Outcomes	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PSO-1	PSO-2
CO-1	3	3	3	1	-	2	2	3	1	2	2	2
CO-2	2	2	2	-	-	1	2	2	2	1	2	1
CO-3	1	2	2	-	1	1	-	2	1	2	-	1
CO-4	1	-	1	-	-	-	1	2	-	-	-	-



**GOKUL
GLOBAL
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Approved By Govt. of Gujarat
(Recognized by UGC under Section 22 & 2(f) of 1956)
(Gujarat Private State University Act 4 of 2018)



Gokul Global University, Siddhpur.



Faculty of Arts and humanities New Syllabus NEP-2020 4th Year Graduation Programme Session-2023-24

Program:	Bachelor of Arts	Subject / Branch:	Economics
Year:	2023-24	Semester:	II
Course title:	Co-operative Movement in India-1	Course code:	CPMIDSCECO202A
Course type:	2 nd Minor (Optional)	Course credit:	04
Pre-requisite:	Basic Knowledge of Economics/ Minor Paper		
Rationale:	How benefits are treated, however, determines the type of economic study. Three basic types of economic study are common to the medical literature: cost-identification analysis, cost-effectiveness analysis, and cost-benefit analysis.		

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE	50	100
			30	20		

Total Credits- 04 (04 Period/Week)	Theory	External-50 Marks
		Internal- 50 Marks

Unit No.	Content	Credit	Hours

Program Outcome:

1. To be able to understand basic concept of economics.
2. To understand the economic way of thinking.
3. To be able to analyze economic behavior in practice.
4. To create students ability to understand various economic problems.

Course Outcome:

1. This paper is to introduce the students to basic understanding of macro Economics and public finance.
2. This paper also enhance the understanding of conceptual terminology of macro Economics
3. This paper makes them more aware about the concept of Economics
4. To get fundamentals knowledge of banking, financial system and understand the problems in Banking sectors in India.



Unit- 1	Commercial Banking: A critical appraisal of the progress of commercial banking after nationalization, Recent reforms in banking sector in India, Concept of Foreign And Private Banks, function of state and district co-operative Bank.	1	15
Unit- 2	Central Banking: Meaning of Central bank, Functions of central bank (Reserve Bank of India), Quantitative and qualitative methods of credit control- bank rate policy, open market operations, cash reservation and selective methods, concept of Reporate and Reverse Reporate, Objectives and limitation of monetary policy with special reference to India.	1	15
Unit-3	Public Economics-1: Meaning of Public Finance, Instruments of Public Finance- Concept of Public expenditure, Causes of increasing public expenditure; Meaning, types and effects public debt.	1	15
Unit-4	Public Economics-2: Meaning and types of tax, Merit and demerits of direct and indirect taxes, concept of GST and its effects.	1	15

Reference:

1. Dewett K.K: Modern Economic Theory, S.Chand, & Co.Ltd. New Delhi.
2. Mithani D.M.; Money, Banking, International Trade and Public Finance, Himalaya Publication House, New Delhi.
3. Shrivastava P.K.; Banking Theory and Practice, Himalaya Publication House, New Delhi.
4. Ahuja H.L: Macro Economic Theory & Policy, S.Chand, & Co.Ltd. New Delhi

Course Outcomes	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PSO-1	PSO-2
CO-1	2	2	2	1	-	2	2	3	1	2	2	2
CO-2	2	2	3	-	-	1	3	3	2	1	2	1
CO-3	1	2	2	-	1	1	-	2	1	2	-	2
CO-4	1	-	1	-	-	-	1	2	-	-	-	-



Gokul Global University, Siddhpur.



Faculty of Arts and humanities
New Syllabus NEP-2020
4th Year Graduation Programme
Session-2023-24

Program :	Bachelor of Arts	Subject / Branch:	Economics
Year :	2023-24	Semester:	II
Course title :	Elementary Economics-1	Course code:	CPMDCECO203
Course type :	2 nd Minor (Optional)	Course credit:	04
Pre-requisite :	Basic Knowledge of Economics/ Minor Paper		
Rationale :	How benefits are treated, however, determines the type of economic study. Three basic types of economic study are common to the medical literature: cost-identification analysis, cost-effectiveness analysis, and cost-benefit analysis.		

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE		
			30	20	50	100

Total Credits- 04	(04 Period/Week)	Theory	External-50 Marks
			Internal- 50 Marks

Program Outcome:

Course Outcome:

1. This paper is to introduce the basic concepts of Economics to the students
2. This paper enable them for further learning in Economics
3. This paper makes them more aware about the concept of Economics



Unit No.	Content	Credit	Hours
Unit-1	Elasticity of Demand:- Meaning and types of income elasticity, Importance of income elasticity, Factors determining income elasticity of demand; Meaning, type and importance of cross elasticity.	1	15
Unit-2	Theory of Production & Cost: Meaning of Production Function, Short run production Function, Law of Diminishing Return; Different concept of Costs (Real Cost, opportunity cost, and monetary cost) and their interrelation.	1	15
Unit-3	Market Structure : Meaning and forms of Markets, Its functions & limitation; Meaning, & Characteristics of perfect competition, monopoly and monopolistic competition.	1	15
Unit-4	Factor Pricing: Basic Concepts of Rent, Interest- Gross Interest and net interest, Wages- Normal wages and real wages; Profit- Gross Profit & Net Profit. Basic concept of economic welfare.	1	15

Reference:

1. Ahuja H.L.: Advance Economic Theory, S. Chand, & Co. Ltd. New Delhi.
2. Agrawal H.S.: Advance Economic Theory, Konark Publishers Pvt. Ltd. New Delhi.
3. Dewett K.K.: Modern Economic Theory, S. Chand, & Co. Ltd. New Delhi.
4. Jhingan. M.L.L.: Principal of Economics, Vrinda Publication, Delhi,
5. Parkin, Micha: Micro Economics, Addison Wiley Publishing Co., New York.
6. Reynolds. R. Larry : Basic Microeconomics, A Textbook Equity Open* College Textbook, 2011, WWW.opencollegertextbooks.org

Further Reading:

1. Koutsoyiannis, A (1990) Modern Microeconomics, Mac Millan.
2. Samuelson, P.A (1998) Economics, Tata McGraw Hill, New Delhi.
3. Rader, T (2014) Theory of microeconomics. Academic Press.
4. Tewari, D.D (2003) Principles of microeconomics. New Age International

Course Outcomes	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PSO-1	PSO-2



CO-1	2	2	3	1	-	2	2	3	1	2	2	2
CO-2	2	2	2	-	-	1	3	2	2	1	2	1
CO-3	1	2	2	-	1	1	-	1	1	2	-	2
CO-4	1	-	1	1	-	-	1	1	-	-	-	-



Gokul Global University, Siddhpur.



Faculty of Arts and humanities
New Syllabus NEP-2020
4th Year Graduation Programme
Session-2023-24

Program:	Bachelor of Arts	Subject / Branch:	Economics
Year:	2023-24	Semester:	II
Course title:	Co-operative-1(Optional)	Course code:	CPMIDSCECO103
Course type:	Multidisciplinary	Course credit:	04
Pre-requisite :	Basic Knowledge of Economics/ Minor Paper		
Rationale :	How benefits are treated, however, determines the type of economic study. Three basic types of economic study are common to the medical literature: cost-identification analysis, cost-effectiveness analysis, and cost-benefit analysis.		

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE	50	100
			30	20		

Total Credits- 04 (04 Period/Week)	Theory	External-50 Marks
		Internal- 50 Marks
Program Outcome: 1. To enable the students gain the basic understanding about co-operative institutions. 2. To get employment in co-operative banks and societies. 3. To provide the necessary soft skills to find jobs.		
Course Outcome: 1. This course will help students to understand the origin and development of co-operative movement in India. 2. This course also enlighten students about various technicalities and process of co-operative societies.		



Unit	Description in detail	Hours	Weightage		
I	Causes of origin in Indian co-operatives, Main character, Importance of co-operative principles and description.	15	25%		
II	Bank role and the working in Agricultural credit and Agricultural development – Reserve Bank of India, Land development Bank, State Bank of India, co-operative Banks.	15	25%		
III	Necessity of co-operative education and training, its objects and methods, Youth and co-operatives, Women and co-operatives.	15	25%		
IV	Co-operative management, Registration process of co-operative societies, Responsibilities of share holders, function of Management committee, Function of general meeting, Function of Registrar, success of co-operative leadership.	15	25%		
Distribution of Theory Marks					
R Level	U Level	A Level	N Level	E Level	c Level
20	30	20	10	10	10

Course Outcomes	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PSO-1	PSO-2
CO-1	2	2	2	1	-	2	3	3	1	2	2	2
CO-2	2	3	3	-	-	1	3	3	2	1	2	1
CO-3	1	2	2	-	1	1	-	2	1	1	-	2
CO-4	1	-	1	1	-	-	1	2	-	-	-	-



Gokul Global University, Siddhpur.



Faculty of Arts and Humanities
New Syllabus NEP-2020
4th Year Graduation Programme
Session-2023-24

PROGRAM CODE: ARTUG110
SEMESTER:2 VALUE ADDED COURSES

Program:	Bachelor of Arts	Subject / Branch:	Economics
Year:	2023-24	Semester:	II
Course title:	Gandhian Economics	Course code:	CPIKSECO205
Course type:	VALUE ADDED COURSE	Course credit:	02
Pre-requisite :	Basic Knowledge of Economics/ Minor Paper		
Rationale :	How benefits are treated, however, determines the type of economic study. Three basic types of economic study are common to the medical literature: cost-identification analysis, cost-effectiveness analysis, and cost-benefit analysis.		

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme		
Lecture	Tutorial	Practical	Internal		External
			Mid	CE	Total
4	0	0	25	00	25
					50

Unit No.	Content	Credit	Hours
1	Main and Important Concepts of Gandhian Economics: Consumption behavior: limited wants and swadeshi, Gandhian vision for rural development, Decentralized Economics system, Value and ethics in Gandhian Economic thought	0.75	12
2	Tearless and fearless development: Importance of labour and protest against machines, Equity and just distribution, Trusteeship principle, Gandhian thinking on gram swaraj.	0.75	12
3	Gandhian Thought on Rural Industries: Importance of Gramodyog, Productive use of rural skill, Eradicating poverty and unemployment, System for Growth. Hurdles in implementing Gandhian Economic vision.	0.50	06

Basic Reading:



1. Andrews, D.F., Ed., Mahatma Gandhi of work Freeport, New York Book for Libraries, 1971.
2. Bose, N.K., My days with Gandhi, Bombay: orient Longman, 1974
3. Dasgupta, A.K., Economic Theory and Developing Countries, London: Macmillan, 1974.
4. Dutt, R., Economic History of India, London: Routledge, 1901, 1903.
5. Gandhi, M.K., All Men are brothers, (Ed.), krishankriplani, New York, Continuum, 1982.
- 6., Autobiography: The story of my Experiments with Truth, beacon, 1957.
7. Kumarappa, J.C., Gandhian Economic Thought, Bombay, Vora & Co., 1951.
8. Maheta, Ved, , Mahatma Gandhi and his Apostles, New York, Penguin, 1977.

Course Outcomes	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PSO-1	PSO-2
CO-1	2	3	2	1	-	2	2	3	1	2	2	2
CO-2	2	2	3	-	-	1	3	3	2	1	2	1
CO-3	1	2	2	-	1	1	-	2	1	2	-	2
CO-4	1	-	1	-	-	-	1	2	-	-	-	-



Gokul Global University, Siddhpur.



Faculty of Arts and humanities
New Syllabus NEP-2020
4th Year Graduation Programme
Session-2023-24

Program:	Bachelor of Arts	Subject / Branch:	Economics
Year:	2023-24	Semester:	II
Course title:	Banking & Financial Services	Course code:	CPSECECO206
Course type:	Skill Enhancement course	Course credit:	02
Pre-requisite :	Basic Knowledge of Economics/ Minor Paper		
Rationale :	How benefits are treated, however, determines the type of economic study. Three basic types of economic study are common to the medical literature: cost-identification analysis, cost-effectiveness analysis, and cost-benefit analysis.		

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE		
			25	00	25	50

Total Credits- 02	(02 Period/Week)	Theory	External-25 Marks Internal- 25 Marks
Course Outcome: 1.It provides adequate basic understanding about banking, insurance and other financial services, among the students. 2.Interdisciplinary – Understand and employ the interdisciplinary approach of various concepts learned in Banking and Insurance & its association with the various fields of study. 3.It inculcates training and practical approach among the students by using modern technologies in the field of banking, insurance etc.			



Sr.No	Content	Credit	Hours
Unit-1	Meaning of Development Banking, features of Development Bank. Development Banks of India: The Industrial Development Bank of India (IDBI), The Industrial Credit and Investment Corporation of India (ICICI), The Export-Import Bank of India (EXIM), NABARD.	0.75	12

Unit-2	Meaning, Function and instrument of the Money market, Meaning, function and instruments of Capital market, Distinction between money and capital market.	0.75	12
Unit-3	Concept and types of Insurance, Characteristics of Insurance, Function of Insurance, Principles of Insurance, Important aspects of Insurance business.	0.50	06

Reference: Reference List:

7. Mithani D.M., Money, Banking, International Trade and Public Finance, Himalaya Publishing House, New Delhi, 2009.
8. Shrivastava P.K., Banking Theory and Practice, Himalaya Publishing House, New-Delhi, 2009.
9. Ahuja H.L., Macro Economics: Theory and Policy, S.Chand, New Delhi, 2009.
10. RBI Bulletin and various RBI Report.
11. Kapila Raj & Uma Kapila, India's Economy into the 21st century, Academic Foundation, New-Delhi 2002.
12. Gupta Shashi K and Rosy Joshi, Security Analysis And Portfolio Management, Kalyani Publishers, New-Delhi, 2005

Further Reading:

1. Fischer Donald E and Ronald I Tordan, Security Analysis And Portfolio Management, Prentice-Hall of India, New-Delhi, 2007
2. Rawal Tejindersing, How to invest in shares, Taxman's New-Delhi, 2007.
3. Jhingan M.L., Principles of Economics, Vrinda Publication LTD., New-Delhi



Course Outcomes	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PSO-1	PSO-2
CO-1	3	2	3	1	-	2	2	3	3	2	2	2
CO-2	2	2	2	-	-	1	3	3	2	1	2	1
CO-3	1	1	2	-	1	1	-	2	1	2	-	2
CO-4	1	-	1	1	-	-	1	2	-	-	1	-



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(Gujarat Private State University Act 4 of 2018)



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DSC-MAJOR COURSE IN ENGLISH

For

ARTS (B.A) PROGRAMME

AS PER THE NEW NEP2020 GUIDELINES



ENGLISH SEM 1

Year	Sem1	Paper/Course Code	Major /Minor/Multidisciplinary/	Proposed Title of Papers	Theory/ Practical	Credits
B.A 1	Sem1	CPMJDSCENG101	Major	English- Introduction to the Forms of Literature (Prose	Theory	4
	Sem1	CPMJDSCENG101A	Major	English- British Poetry: (14 th to 17 th Centuries)	Theory	4
	Sem1	CPMIDSCENG102	Minor	English- Introduction to the Forms of Literature (Prose	Theory	4
	Sem1	CPMDCENG103	Multidisciplinary	Delightful English Reading by Rusk Publishers	Theory	4
	Sem1	CPAECENG104	Ability Enhancement Course	General English-1	Theory	2
	Sem1	CPIKSENG105	Indian Knowledge System	Indian English Literature	Theory	2
	Sem1	CPSECENG106	Skill Enhancement Program	English Translation Skill	Theory	2

PROGRAM OUTCOMES (PO)



PO 1	Critical thinking skills: Graduates will be able to analyze complex information, evaluate arguments, and think critically to solve problems.
PO 2	Effective communication: Graduates will demonstrate proficiency in written and oral communication skills, including the ability to express ideas clearly and persuasively.
PO 3	Research skills: Graduates will be able to conduct independent research, gather relevant data, and analyze information to support their arguments.
PO 4	Cultural awareness: Graduates will have a deep understanding of diverse cultures, perspectives, and traditions, fostering empathy and appreciation for cultural differences.
PO 5	Ethical reasoning: Graduates will develop ethical reasoning skills and demonstrate an understanding of ethical issues within their field of study.
PO 6	Creative thinking: Graduates will be able to think creatively, generate innovative ideas, and apply artistic principles to their work.
PO 7	Collaboration and teamwork: Graduates will possess the ability to work effectively in teams, demonstrating leadership skills and contributing to collective goals.
PO 8	Global perspective: Graduates will have an awareness of global issues and their impact, recognizing the interconnectedness of the world.
PO 9	Adaptability and flexibility: Graduates will be able to adapt to changing environments, learn new skills, and embrace lifelong learning.
PO 10	Problem-solving skills: Graduates will be equipped with the skills to identify problems, propose solutions, and make informed decisions.



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PROGRAM SPECIFIC OUTCOMES

PSO1	• Literary Knowledge: Demonstrate a comprehensive understanding of major literary periods, movements, genres, and canonical works in English literature.
PSO 2	• Multicultural Perspectives: Explore and appreciate the diversity of voices and perspectives in literature, including works by authors from different cultural, ethnic, and geographic backgrounds.



Gokul Global University, Siddhapur.

**Faculty of Arts, Humanities & Social Science
New Syllabus NEP-2020
4 Year Graduation Programme
Session-2023-24**





Program :	Bachelor of Arts	Subject / Branch :	English
Year :	2023/24 – 1 st	Semester:	I
Course :	Major Course -I		
Course title :	Introduction to the Forms of Literature (Prose)	Course code :	CPMJDSCENG101
Course type :	Theory (Core Compulsory)	Course credit :	04
Pre-requisite :	Basic knowledge of English		
Rationale :			

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	3	1	Mid	CE		
			30	20	50	100

Course Objective:

1. To provide basic knowledge about literature and literary forms (with emphasis on prose forms)
2. To prepare students with foundational concepts, perspectives, principles, and methods of approaching literature
3. To enable students to gain critical thinking and assist in evaluation and appreciation of literature
4. To enhance reading, writing and comprehension skills of the students

Course Outcome:

1. Students will be able to understand the historical background and importance of literary forms.
2. Developed and clear understanding of Essay and Short Story with reference to prescribed texts.
3. Developed fundamental skills required for close reading and critical analysis
4. Students will be able to appreciate and analyze the literary texts in the larger socio-political contexts of the time.

Content

Unit	Description in detail	Credit	Weightage
I	Essay as a form of literature	1	25%
	Short Story as a form of literature		
II	‘Shakespeare’s Sister’ by Virginia Woolf	1	25%
	‘The Religion of the Forest’ by Tagore		
III	‘Two Lady Rams’ by Mulk Raj Anand	1	25%
	‘The Fall of the House of Usher’ By Edgar Allen Poe		



IV	Acquaintances:		
	1. Munshi Premchand 2. R K Narayan 3. Ruskin Bond 4. Anton Chekov 5. O' Henry 6. Michel de Montaigne 7. Francis Bacon 8. Charles Lamb 9. William Hazlitt 10. R L Stevenson	1	25%

Reference:

1. Alfred H Upham, The Typical Forms of English Literature, New Delhi: AITBS Publishers
 2. M H Abrams, A Glossary of Literary Terms New Delhi: Laxmi Publications 2001
 3. B Prasad, A Background to the Study of English Literature, New Delhi: Macmillan, 2000
 4. R J Rees, English Literature An Introduction for Foreign Readers Macmillan
 5. W H Hudson, An Introduction to the Study of Literature
- Online Resources:
- <https://www.britannica.com/art/essay>
<http://l-adam-mekler.com/shakespeares-sister.pdf>
<https://gyansanchay.csjmu.ac.in/wp-content/uploads/2023/05/MULK-RAJ-ANANDS-TWO-LADY-RAM.pdf>
<https://www.sparknotes.com/lit/poestories/section3/>
<https://www.resurgence.org/magazine/article3390-forests-and-freedom.html>
<https://www.frontlist.in/authors/r-k-narayan-biography>
https://en.wikipedia.org/wiki/Ruskin_Bond

Course Outcome s	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)											
	PO- 1	PO- 2	PO- 3	PO- 4	PO- 5	PO- 6	PO- 7	PO- 8	PO- 9	PO- 10	PSO- 1	PSO- 2
CO-1	-	-	2	-	-	-	-	2	-	-	2	-
CO-2	-	-	-	-	1	-	-	-	-	-	-	-
CO-3	2	-	1	-	-	-	-	-	-	-	-	1
CO-4	-	-	-	-	-	-	1	-	2	-	-	-



Gokul Global University, Siddhapur.

Faculty of Arts, Humanities & Social Science New Syllabus NEP-2020 4 Year Graduation Programme Session-2023-24



Program :	Bachelor of Arts	Subject / Branch :	English
Year :	2022/23 - 1 st	Semester :	I
Course :	Major - II		
Course title :	BRITISH POETRY: (14TH TO 17TH CENTURIES)	Course code:	CPMJDSCENG101A
Course type :	Theory	Course credit :	04
Pre-requisite :			
Rationale :			

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE		
			30	20	50	100

Course Objective:

- 1.To provide basic knowledge about the history of English literature
- 2.To equip students with foundational concepts, perspectives, principles and methods of approaching literature
3. To enable students to gain critical thinking and learn to evaluate and appreciate literature
4. To enhance reading, writing and comprehension skills of the students

Course Outcome:

1. Students will be able to understand the historical background of traditional forms of English literature
2. Students will be able to develop a clear understanding of Verse forms that provides the basis for the texts prescribed
3. Students will be able to engage with the major genres and forms of English literature and develop fundamental skills required for close reading and critical thinking of the texts and concepts
4. Students will be able to appreciate and analyze the literary texts in the larger socio-political and contexts of the time.

**Content**

Unit	Description in detail	Credit	Weightage
I	Introduction to the age of Chaucer Elizabethan Poetry	1	25 %
	Metaphysical Poetry		
II	Geoffrey Chaucer -The Pardoner's Tale	1	25%
III	1) Edmund Spenser Selections from Amoretti: Sonnet LXXV 'One day I wrote her name...' 2) William Shakespeare Sonnet LXV 'Since Brass nor Stone' 3) John Donne- Death Be not Proud	1	
IV	Acquaintances: Sir Philip Thomas Sackville Michael Drayton John Dryden Samuel Butler Robert Herrick Andrew Marvel George Herbert Henry Vaughan Richard Crashaw	1	25%

Reference:

1. History of English Literature by Edward Albert
2. R J Rees, English Literature: An Introduction for Foreign Readers Macmillan
3. W H Hudson, An Introduction to the Study of Literature

Online Resources:

<http://rcscollegemanjhaul.org/rcs/assets/uploads/assignment/assignment-1642497352-sms.pdf>
https://uou.ac.in/lecturenotes/humanities/MAEL-17/METAPHYSICAL_POETRY_UOU%20PDF.pdf
<https://www.britannica.com/topic/The-Canterbury-Tales>
<https://poemanalysis.com/william-shakespeare/sonnet-65/>
<https://poemanalysis.com/john-donne/death-be-not-proud-holy-sonnet-10/>
https://en.wikipedia.org/wiki/Philip_Sidney

Course	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)



Outcome s	PO- 1	PO- 2	PO- 3	PO- 4	PO- 5	PO- 6	PO- 7	PO- 8	PO- 9	PO- 10	PSO- 1	PSO- 2
CO-1	-	-	-	2	-	-	-	-	-	-	-	-
CO-2	-	-	1	-	-	-	-	1	-	-	-	1
CO-3	2	1	1	-	-	-	-	-	-	-	-	-
CO-4		-	-	-	-	2	-	-	-	-	2	-



Gokul Global University, Siddhapur.

Faculty of Arts, Humanities & Social Science New Syllabus NEP-2020 4 Year Graduation Programme Session-2023-24



Program :	Bachelor of Arts	Subject / Branch :	English
Year :	2023/24 – 1 st	Semester:	I
Course :	Minor		
Course title :	Introduction to the Forms of Literature (Prose)	Course code :	CPMIDSCENG102
Course type :	Theory (Core Compulsory)	Course credit :	04
Pre-requisite :	Basic knowledge of English		
Rationale :			

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	3	1	Mid	CE	50	100
			30	20		

Course Objective:

1. To provide basic knowledge about literature and literary forms (with emphasis on prose forms)
2. To prepare students with foundational concepts, perspectives, principles, and methods of approaching literature
3. To enable students to gain critical thinking and assist in evaluation and appreciation of literature
4. To enhance reading, writing and comprehension skills of the students

Course Outcome:

1. Students will be able to understand the historical background and importance of literary forms.
2. Developed and clear understanding of Essay and Short Story with reference to prescribed texts.
3. Developed fundamental skills required for close reading and critical analysis
4. Students will be able to appreciate and analyze the literary texts in the larger socio-political contexts of the time.

Content

Unit	Description in detail	Credit	Weightage
I	Essay as a form of literature	1	25%



	Short Story as a form of literature		
II	‘Shakespeare’s Sister’ by Virginia Woolf	1	25%
	‘The Religion of the Forest’ by Tagore		
III	‘Two Lady Rams’ by Mulk Raj Anand	1	25%
	‘The Fall of the House of Usher’ By Edgar Allen Poe		
IV	Acquaintances:	1	25%
	1. Munshi Premchand 2. R K Narayan 3. Ruskin Bond 4. Anton Chekov 5. O’ Henry 6. Michel de Montaigne 7. Francis Bacon 8. Charles Lamb 9. William Hazlitt 10. R L Stevenson		

Reference:

1. Alfred H Upham, The Typical Forms of English Literature, New Delhi: AITBS Publishers
2. M H Abrams, A Glossary of Literary Terms New Delhi: Laxmi Publications 2001
3. B Prasad, A Background to the Study of English Literature, New Delhi: Macmillan, 2000
4. R J Rees, English Literature An Introduction for Foreign Readers Macmillan
5. W H Hudson, An Introduction to the Study of Literature

Course Outcome s	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)											
	PO- 1	PO- 2	PO- 3	PO- 4	PO- 5	PO- 6	PO- 7	PO- 8	PO- 9	PO- 10	PSO- 1	PSO- 2
CO-1	-	-	2	-	-	-	-	2	-	-	2	-
CO-2	-	-	-	-	1	-	-	-	-	-	-	-
CO-3	2	-	1	-	-	-	-	-	-	-	-	1
CO-4	-	-	-	-	-	-	1	-	2	-	-	-



Gokul Global University, Siddhapur.

Faculty of Arts, Humanities & Social Science New Syllabus NEP-2020 4 th Year Graduation Programme Session-2023-24



Program :	Bachelor of Arts	Subject / Branch :	English
Year :	2023/24 – 1 st	Semester:	I
Course :	Multidisciplinary		
Course title :	Delightful English Reading by Rusk Publication	Course code :	CPMDCENG103
Course type :	Theory (Core Compulsory)	Course credit :	04
Pre-requisite :	Basic knowledge of English		
Rationale :			

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
			Mid	CE		
4	4	0	30	20	50	100

Course Objective:

1. To cultivate a love for reading in English by exposing students to delightful literary works, fostering a positive attitude towards literature.
2. To develop students' comprehension skills, enabling them to extract meaning from diverse and challenging English texts effectively.
3. To enhance vocabulary acquisition, enabling students to express themselves more precisely and eloquently in both oral and written communication.
4. To encourage critical thinking and analytical abilities through the exploration and interpretation of complex literary pieces.

Course Outcome:

1. Students will be able to develop a deep appreciation for the richness and diversity of English literature across genres and periods.
2. Students will be able to demonstrate improved proficiency in understanding and analyzing complex literary texts in English.
3. Students will be able to exhibit an expanded and nuanced vocabulary suitable for expressing ideas with clarity and precision.

4. Students will be able to apply critical thinking skills to evaluate and interpret the deeper meanings and themes present in literary works.

Content			
Unit	Description in detail	Credit	Weightage
I	The Word of Advertisements	1	25%
II	Man Goes to The Moon	1	25%
III	Water- The Elixir of Life by C. V. Raman	1	25%
IV	Indian Philosophy by C.E.M. Joad	1	25%

Reference:

1. Delightful English Reading by Rusk Publishers
2. Kumar, Gajendra. Indian English Literature: A New Perspective. Sarup and Sons, 2001.
3. Rocca, Kelly A. "Student participation in the college classroom: An extended multidisciplinary literature review." *Communication education* 59.2 (2010): 185-213.

[illegible]



Program:	Bachelor of Arts	Subject / Branch:	English
Year :	2023-2024	Semester:	I
Course:	ABILITY ENHANCEMENT COURSE	Code :	CPAECENG104
Course title:	General English-1 (Text: Fantasy)	Course code:	
Course type :	Theory	Course credit:	02
Pre-requisite :	Basic Knowledge of English Language		
Rationale :			

Teaching (Hours/week)			Examination Scheme		
Lecture	Tutorial	Practical	Internal	External	Total
2	0	0	25	25	50

Course Objective:

1. To develop Language Proficiency and communication skills.
2. To enhance Reading Comprehension.
3. To enhance Vocabulary and Grammar Knowledge.
4. To encourage creativity and self-expression in written communication through various writing exercises.

Course Outcome:

1. Improved Language Proficiency and effective communication skills.
2. Enhanced Reading Comprehension and expanded Vocabulary and Grammar Knowledge.
3. Developed Writing Skills and critical thinking abilities.
4. Students will be able to appreciate the richness of the English language by recognizing cultural variations and linguistic nuances.

Content

Unit	Description in detail	Credit	Weightage
I	A Service of Love – O.Henry	0.75	35%
	The Thief – Ruskin Bond		
	The Open Window - Saki		
	A Day's Wait – Ernest Hemingway		
II	Grammar - Primary Auxiliaries- To Be, To Have, To Do - Articles - Definite, indefinite	0.75	35%
III	Composition -Paragraph writing – My Family , My Favourite Teacher , My Ambition in Life , My College , India – Unity in Diversity, Global Warming , Tress – Our Best Friends , Water – Elixir of Life	0.50	30%

Reference Readings:

1. "Oxford Modern English Grammar" by Bas Aarts



2. "Longman English Grammar Practice" by L.G. Alexander
3. "English Grammar in Use" by Raymond Murphy
4. Fantasy a collection of short stories

Online Resources:

1. <https://study.com/academy/lesson/articles-in-grammar-lesson-plan.html>
2. <https://www.grammarly.com/blog/articles/>

Course Outcomes	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PSO-1	PSO-2
CO-1	2	-	-	-	-	-	-	-	-	-	-	1
CO-2	-	-	-	-	-	-	-	1	-	-	2	
CO-3	2	-		-	-	-	-	-	-	-	-	-
CO-4	1	-	-	-	-	-	-	-	2	-	-	2



विद्या अनन्तम्

Gokul Global University, Siddhapur.

Faculty of Arts, Humanities & Social Science

New Syllabus NEP-2020

4 th Year Graduation Programme

Session-2023-24



Program :	Bachelor of Arts	Subject / Branch :	English
Year :	2023/24 – 1 st	Semester:	I
Course :	Indian Knowledge System		
Course title :	Indian English Literature	Course code :	CPIKSENG105
Course type :	Theory (Core Compulsory)	Course credit :	02
Pre-requisite :	Basic knowledge of English		
Rationale :			

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
			Mid	CE		
2	2	0	25		25	50

Course objectives:

1. Foster an understanding of the rich diversity and depth of India's traditional knowledge systems.
2. Explore the historical and cultural roots of Indian knowledge, emphasizing its continuity and relevance.
3. Analyze the interdisciplinary nature of the Indian knowledge system, incorporating perspectives from various fields.
4. Promote critical thinking by evaluating the impact of the Indian knowledge system on contemporary issues.

Course outcomes:

1. Gain a comprehensive understanding of India's diverse traditional knowledge systems.
2. Appreciate the historical evolution and cultural context of Indian knowledge, recognizing its ongoing significance.
3. Apply interdisciplinary approaches to comprehend the interconnectedness of different branches within the Indian knowledge system.
4. Demonstrate critical thinking skills in assessing the contemporary relevance and challenges associated with Indian knowledge.

**Content**

Unit	Description in detail	Credit	Weightage
I	Introduction to Hitopadesh: Understanding the origin and significance of Hitopadesh in ancient Indian literature Introduction to Panchatantra: Overview of Panchatantra, its history, and cultural importance	1	35%
II	Stories from Hitopadesh 1. "The Clever Rabbit and the Foolish Lion" 2. "The Wise Brahmin and the Cunning Thief" 3. "The Talkative Tortoise"	1	35%
III	Stories from Panchatantra 1. "The Lion and the Mouse" 2. "The Crows and the Snake" 3. "The Monkey and the Crocodile"	1	30%

Reference Books:

1. "Hitopadesha: Timeless Tales of Wisdom" - Translated by Vishnu Sharma
2. "Panchatantra" - Translated by Arthur W. Ryder
3. "Hitopadesa" - Translated by Francis Johnson
4. "Panchatantra: The Complete Version" - Translated by G.L. Chandiramani and A.R. Vasudeva Murthy
5. "Indian Fables" - Selected and Edited by P. Lal

Course Outcomes	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PSO-1	PSO-2
CO-1	-	-	-	2	-	-	-	-	-	-	2	1
CO-2	-	-	-	-	-	-	-	2	-	-	-	-
CO-3	-	-	-	-	1	-	-	-	1	-	-	-
CO-4	2	-	-	-	-	1	-	-	-	-	1	-



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(Gujarat Private State University Act 4 of 2018)



Gokul Global University, Siddhapur.

Faculty of Arts, Humanities & Social Science New Syllabus NEP-2020 4 th Year Graduation Programme Session-2023-24



Program :	Bachelor of Arts	Subject / Branch :	English
Year :	2023/24 – 1 st	Semester:	I
Course :	Skill Enhancement Course		
Course title :	Delightful English Reading by Rusk Publication	Course code :	CPSECENG106
Course type :	Theory (Core Compulsory)	Course credit :	02
Pre-requisite :	Basic knowledge of English		
Rationale :			

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
2	2	0	Mid	CE		
			25		25	50

Course Objective:



1. To cultivate a love for reading in English by exposing students to delightful literary works, fostering a positive attitude towards literature.
2. To develop students' comprehension skills, enabling them to extract meaning from diverse and challenging English texts effectively.
3. To enhance vocabulary acquisition, enabling students to express themselves more precisely and eloquently in both oral and written communication.
4. To encourage critical thinking and analytical abilities through the exploration and interpretation of complex literary pieces.

Course Outcome:

1. Students will be able to develop a deep appreciation for the richness and diversity of English literature across genres and periods.
2. Students will be able to demonstrate improved proficiency in understanding and analyzing complex literary texts in English.
3. Students will be able to exhibit an expanded and nuanced vocabulary suitable for expressing ideas with clarity and precision.
4. Students will be able to apply critical thinking skills to evaluate and interpret the deeper meanings and themes present in literary works.

Content			
Unit	Description in detail	Credit	Weightage
I	Translation of a paragraph from English into Gujarati or Hindi.	1	35%
II	Translation of a paragraph from Gujarati or Hindi into English,	1	35%
III	(a) Match the words of English with Gujarati. (b) Translate the following words into Gujarati. University, Nation, Literature, Home-science, Island, People, Communication, Geology, Municipality. Acknowledge, Criticism, Curriculum, Debate, Democracy, Genetic, Zoology, Heaven, Imagination, Reality, Internal, Introduction, Investigation, License, Culture, Female, Atmosphere, Earthquake, Environment, Legal, Certificate, Alumni, Award.	1	30%

Reference:

1. Lakshmi, H (ed). Problems of Translation. Hyderabad: Books links Corporation, 1993.
2. Mukherjee, Sujit. Translation as Discovery. Orient Longman, 1994.
3. Sarang, Vilas. The Stylistics of literary Translation. University of Mumbai Publication, 1988.
4. The Students Little Dictionary, English into Gujarati.



Course Outcome s	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PSO-1	PSO-2
CO-1	-	-	-	2	-	-	-	2	-	-	-	2
CO-2	-	-	-	-	1	-	-	-	1	-	-	-
CO-3	-	1	-	-	-	-	-	-	-	-	2	-
CO-4	2	-	-	-	-	-	-	-	-	-	-	-



Year	Sem	Paper/Course Code	Major /Minor/Multidisciplinary/	Proposed Title of Papers	Theory/ Practical	Credits
	Sem2	CPMJDSCENG201	Major	Introduction to the Forms of Literature	Theory	4

GOKUL GLOBAL UNIVERSITY, SIDHPUR

**DSC-MAJOR COURSE IN ENGLISH
ENGLISH SEM 2**



				(Verse)		
				Approved By Govt. of Gujarat		
				Approved by UGC under Section 22 & 2(f) of 1956		
				(Gujarat Private State University Act 4 of 2018)		
B.A 2	Sem2	CPMJDSCENG201A	Major	British Prose and Drama (15th to 17th Century)	Theory	4
	Sem2	CPMIDSCENG202	Minor	Introduction to the Forms of Literature (Verse)	Theory	4
	Sem2	CPMDCENG203	Multidisciplinary	Easier English Reading by Rusk Publishers	Theory	4
	Sem2	CPAECENG204	Ability Enhancement	General English-2 (Text: Fantasy)	Theory	2
	Sem2	CPIKSENG205	Indian Knowledge System	Nationalism and Indian English Literature	Theory	2
	Sem2	CPSECENG206	Skill Enhancement Program	Communication Skills	Theory	2

PROGRAM OUTCOMES (PO)

PO 1	Critical thinking skills: Graduates will be able to analyze complex information, evaluate arguments, and think critically to solve problems.
PO 2	Effective communication: Graduates will demonstrate proficiency in written and oral communication skills, including the ability to express ideas clearly and persuasively.
PO 3	Research skills: Graduates will be able to conduct independent research, gather relevant data, and analyze information to support their arguments.
PO 4	Cultural awareness: Graduates will have a deep understanding of diverse cultures, perspectives, and traditions, fostering empathy and appreciation for cultural differences.
PO 5	Ethical reasoning: Graduates will develop ethical reasoning skills and demonstrate an understanding of ethical issues within their field of study.



PO 6	~~Creative thinking:~~ Graduates will be able to think creatively, generate innovative ideas, and apply artistic principles to their work.	Approved By Govt. of Gujarat (Recognized by UGC under Section 22 & 2(f) of 1956) (Gujarat Private State University Act 4 of 2018)
PO 7	Collaboration and teamwork: Graduates will possess the ability to work effectively in teams, demonstrating leadership skills and contributing to collective goals.	
PO 8	Global perspective: Graduates will have an awareness of global issues and their impact, recognizing the interconnectedness of the world.	
PO 9	Adaptability and flexibility: Graduates will be able to adapt to changing environments, learn new skills, and embrace lifelong learning.	
PO 10	Problem-solving skills: Graduates will be equipped with the skills to identify problems, propose solutions, and make informed decisions.	



Gokul Global University, Siddhapur.
Faculty of Arts, Humanities & Social Science
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4 th Year Graduation Programme



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PROGRAM SPECIFIC OUTCOMES

PSO1	• Literary Knowledge: Demonstrate a comprehensive understanding of major literary periods, movements, genres, and canonical works in English literature.
PS0 2	• Multicultural Perspectives: Explore and appreciate the diversity of voices and perspectives in literature, including works by authors from different cultural, ethnic, and geographic backgrounds.



Program :	Bachelor of Arts	Subject / Branch :	English
Year :	2023/24– 2nd	Semester :	II
Course:	Major -I		
Course title :	Introduction to the Forms of Literature (Verse)	Course code :	CPMJDSCENG201
Course type :	Theory	Course credit :	04
Pre-requisite :			
Rationale :			

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme		
Lecture	Tutorial	Practical	Internal	External	Total
4	0	0	50	50	100

Course Objective:

1. To provide basic knowledge about literature and literary forms (with emphasis on poetry).
2. To equip students with foundational concepts, perspectives, principles and methods of approaching literature.
3. To enable students to gain critical thinking to assist evaluation and appreciation of literature.
4. To foster an appreciation for the artistic and expressive potential of verse forms.

Course Outcome:

1. Students will be able to understand the historical background of traditional forms of English literature
2. Enhanced critical thinking and analytical skills in the interpretation of verse.
3. Students will be able to engage with the major genres and forms of English literature and develop fundamental skills required for close reading and critical thinking of the texts and concepts
4. Appreciation for the beauty and intricacies of poetic expression.

Content

Unit	Description in detail	Credit	Weightage
I	Epic as a form of Literature Ballad as a form of Literature	1	25%



II	John Keats 'La Belle Dame sans Merci' Thomas Hardy- 'Her Immortality'	1	25%
III	Robert Burns – 'Red Red Rose' W B Yeats – 'When You Are Old'	1	25%
IV	Acquaintances: -Lyric -Ode -Sonnet -Elegy -Song -Novel -Auto Biography -Satire -Dramatic Monologue -Allegory	1	25%

Reference Books:

1. Alfred H Upham, The Typical Forms of English Literature, New Delhi: AITBS Publishers
2. M H Abrams, A Glossary of Literary Terms New Delhi: Laxmi Publications 2001
3. B Prasad, A Background to the Study of English Literature, New Delhi: Macmillan, 2000
4. R J Rees, English Literature an Introduction for Foreign Readers Macmillan
5. W H Hudson, An Introduction to the Study of Literature

Online Resources:

- <https://www.britannica.com/art/epic>
- <https://www.litcharts.com/literary-devices-and-terms/ballad>
<https://www.poetryfoundation.org/articles/69748/john-keats-la-belle-dame-sans-merci>



Course Outcome s	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)											
	PO- 1	PO- 2	PO- 3	PO- 4	PO- 5	PO- 6	PO- 7	PO- 8	PO- 9	PO- 10	PSO- 1	PSO- 2
CO-1	-	-	-	2	-	-	-	-	-	-	-	2
CO-2	2	-	-	-	-	-	-	-	-	-	-	-
CO-3	2	-	-	-	-	2	-	-	-	-	1	-
CO-4	-	-	-	-	-	-	-	2	1	-	-	-



विद्या अनंतम्

Gokul Global University, Siddhapur.

Faculty of Arts , Humanities & Social Science

New Syllabus NEP-2020

4 Year Graduation Programme

Session-2023-24



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Program :	Bachelor of Arts	Subject / Branch :	English
Year :	2023/24 - 1 st	Semester :	II
Course	Major II		
Course title :	British Prose and Drama (15th to 17th Century)	Course code :	CPMJDSCEG201A
Course type :	Theory	Course credit :	04
Pre-requisite :			
Rationale :			

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme		
Lecture	Tutorial	Practical	Internal	External	Total
4	0	0	50	50	100

Course Objective:

1. To provide basic knowledge about literature and literary forms with emphasis on drama
2. To equip students with foundational concepts, perspectives, principles and methods of approaching literature
3. To enable students to gain critical thinking to assist evaluation and appreciation of literature
4. To enhance reading, writing and comprehension skills of the students

Course Outcome:

1. Developed a comprehensive understanding of British prose and drama in the 15th to 17th centuries.
2. Enhanced the ability to engage in critical literary analysis and effectively communicate insights.
3. Students will gain insight into the interconnectedness between literature and the broader historical and cultural landscape of the time.
4. Students will be able to appreciate and analyze the literary texts in the larger socio-political and contexts of the time

Content

Unit	Description in detail	Credit	Weightage
I	Early Drama (Mystery, Miracle, Morality Plays) Contribution of University Wits	1	25 %



II	Renaissance Humanism	1	25%
III	William Shakespeare- As You Like It	1	25%
IV	Acquaintances: 1. George Peele 2. John Lyly 3. Robert Greene 4. Thomas Kyd 5. Marlowe 6. Ben Jonson 7. John Webster 8. William Congreve 9. John Wycherley 10. John Dekker	1	25%

Reference Books:

1. Alfred H Upham, The Typical Forms of English Literature, New Delhi: AITBS Publishers
2. M H Abrams, A Glossary of Literary Terms New Delhi: Laxmi Publications 2001
3. B Prasad, A Background to the Study of English Literature, New Delhi: Macmillan, 2000
4. Pico Della Mirandola, excerpts from the Oration on the Dignity of Man, in The Portable Renaissance Reader, ed. James Bruce Ross and Mary Martin McLaughlin (New York: Penguin Books, 1953) pp. 476–9.
5. John Calvin, 'Predestination and Free Will', in The Portable Renaissance Reader, Ed. James Bruce Ross and Mary Martin McLaughlin (New York: Penguin Books, 1953) pp. 704–11.
6. Baldassare Castiglione, 'Longing for Beauty' and 'Invocation of Love', in Book 4 of The Courtier, 'Love and Beauty', tr. George Bull (Harmondsworth: Penguin, rpt. 1983) pp. 324–8, 330–5.
7. Philip Sidney, An Apology for Poetry, ed. Forrest G. Robinson (Indianapolis: Bobbs Merrill, 1970) pp. 13–18

Online Resources:

<https://www.studocu.com/in/document/aligarh-muslim-university/history-of-english-literature/development-of-drama-mystery-miracle-morality-interlude/22357208>
<https://en.wikipedia.org/wiki/Renaissance>
<https://www.britannica.com/topic/humanism>
<https://www.sparknotes.com/shakespeare/asyoulikeit/summary/>
https://en.wikipedia.org/wiki/George_Peele
[https://en.wikipedia.org/wiki/Robert_Greene_\(American_author\)](https://en.wikipedia.org/wiki/Robert_Greene_(American_author))



Gokul Global University, Siddhapur.
Faculty of Arts, Humanities & Social Science
New Syllabus NEP-2020
4 th Year Graduation Programme
Session-2023-24



Course Outcome s	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)											
	PO- 1	PO- 2	PO- 3	PO- 4	PO- 5	PO- 6	PO- 7	PO- 8	PO- 9	PO- 10	PSO- 1	PSO- 2
CO-1	-	1	-	-	-	1	-	-	-	-	1	-
CO-2	1	-	-	-	2	-	-	-	-	-	-	-
CO-3	-	-	-	2	-	-	-	-	-	-	-	2
CO-4	-	-	2	-	-	-	-	-	1	-	-	-



Program :	Bachelor of Arts	Subject / Branch:	English
Year :	2023/24– 2nd	Semester :	II
Course:	Minor		
Course title :	Introduction to the Forms of Literature (Verse)	Course code:	CPMIDSCENG202
Course type :	Theory	Course credit :	04
Pre-requisite :			
Rationale :			

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme		
Lecture	Tutorial	Practical	Internal	External	Total
4	0	0	50	50	100

Course Objective:

1. To provide basic knowledge about literature and literary forms (with emphasis on poetry).
2. To equip students with foundational concepts, perspectives, principles and methods of approaching literature.
3. To enable students to gain critical thinking to assist evaluation and appreciation of literature.
4. To foster an appreciation for the artistic and expressive potential of verse forms.

Course Outcome:

1. Students will be able to understand the historical background of traditional forms of English literature
2. Enhanced critical thinking and analytical skills in the interpretation of verse.
3. Students will be able to engage with the major genres and forms of English literature and develop fundamental skills required for close reading and critical thinking of the texts and concepts
4. Appreciation for the beauty and intricacies of poetic expression.

Content

Unit	Description in detail	Credit	Weightage
I	Epic as a form of Literature	1	25%



	Ballad as a form of Literature		
II	John Keats 'La Belle Dame sans Merci'	1	25%
	Thomas Hardy- 'Her Immortality'		
III	Robert Burns – 'Red Red Rose'	1	25%
	W B Yeats – 'When You Are Old'		
IV	Acquaintances: -Lyric -Ode -Sonnet -Elegy -Song -Novel -Auto Biography -Satire -Dramatic Monologue -Allegory	1	25%

Reference Books:

1. Alfred H Upham, The Typical Forms of English Literature, New Delhi: AITBS Publishers
2. M H Abrams, A Glossary of Literary Terms New Delhi: Laxmi Publications 2001
3. B Prasad, A Background to the Study of English Literature, New Delhi: Macmillan, 2000
4. R J Rees, English Literature an Introduction for Foreign Readers Macmillan
5. W H Hudson, An Introduction to the Study of Literature

Online Resources:

- <https://www.britannica.com/art/epic>
- <https://www.litcharts.com/literary-devices-and-terms/ballad>
<https://www.poetryfoundation.org/articles/69748/john-keats-la-belle-dame-sans-merci>



Course Outcome s	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)											
	PO- 1	PO- 2	PO- 3	PO- 4	PO- 5	PO- 6	PO- 7	PO- 8	PO- 9	PO- 10	PSO- 1	PSO- 2
CO-1	-	-	-	2	-	-	-	-	-	-	-	2
CO-2	2	-	-	-	-	-	-	-	-	-	-	-
CO-3	2	-	-	-	-	2	-	-	-	-	1	-
CO-4	-	-	-	-	-	-	-	2	1	-	-	-



Gokul Global University, Siddhapur.

Faculty of Arts, Humanities & Social Science New Syllabus NEP-2020 4 th Year Graduation Programme Session-2023-24



Program :	Bachelor of Arts	Subject / Branch :	English
Year :	2023/24 – 1 st	Semester:	II
Course :	Multidisciplinary		
Course title :	Easier English Reading by Rusk Publishers	Course code :	CPMDCENG103
Course type :	Theory (Core Compulsory)	Course credit :	04
Pre-requisite :	Basic knowledge of English		
Rationale :			

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	4	0	Mid	CE	50	100
			30	20		

Course Objective:

1. Enhance students' reading skills in English by providing accessible and engaging literary materials.
2. Develop comprehension and fluency through simplified English texts, catering to varying proficiency levels.
3. Foster confidence in language learners by offering a supportive environment for practicing reading skills.
4. Cultivate a habit of regular reading, promoting both academic and recreational benefits.

Course Outcome:

1. Demonstrate improved English reading skills through comprehension of simplified literary materials.
2. Enhance reading fluency by engaging with accessible texts designed for varying language proficiency levels.
3. Build confidence in language learners, encouraging them to approach English reading with enthusiasm.



4. Establish a consistent reading habit, fostering academic success and personal enrichment.

Content

Unit	Description in detail	Credit	Weightage
I	The King Who Gave Up War	1	25%
II	Socrates	1	25%
III	The Narmada	1	25%
IV	Gandhi in South Africa	1	25%

Reference:

1. Easier English Reading by Rusk Publishers

Further Reading:

1. Kumar, Gajendra. **Indian English Literature: A New Perspective**. Sarup and Sons, 2001.
2. Rocca, Kelly A. "Student participation in the college classroom: An extended multidisciplinary literature review." *Communication education* 59.2 (2010): 185-213.

Course Outcome s	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)											
	PO- 1	PO- 2	PO- 3	PO- 4	PO- 5	PO- 6	PO- 7	PO- 8	PO- 9	PO- 10	PSO- 1	PSO- 2
CO-1	-	-	-	2	-	-	-	-	-	-	-	2
CO-2	2	-	-	-	-	-	-	-	-	-	-	-
CO-3	2	-	-	-	-	2	-	-	-	-	1	-
CO-4	-	-	-	-	-	-	-	2	1	-	-	-



Gokul Global University, Siddhapur
Faculty of Arts, Humanities & Social Science



Program:	Bachelor of Arts	Subject / Branch:	English
Year :	2023-2024	Semester:	II
Course:	ABILITY ENHANCEMENT COURSE	Code :	CPAECENG204
Course title:	General English-2 (Text: Fantasy)	Course code:	
Course type :	Theory	Course credit:	02
Pre-requisite :	Basic Knowledge of English Language		
Rationale :			

Teaching Examination Scheme:

Teaching (Hours/week)	Examination Scheme



Lecture	Tutorial	Practical	Internal	External	Total
2	0	0	25	25	50

Course Objective:

1. To understand Indian Writing in English with various authors short stories.
2. To make students take interest in reading and writing through comprehension and analysis in it.
3. To foster effective communication skills in English for various contexts.
4. To instill an appreciation for linguistic diversity and cultural nuances within the English language.

Course Outcome:

1. Developed sensitivity to diverse perspectives and cultural contexts. It further helps them to prepare for various competitive exams and to keep up with the increasing demand of English in Indian society.
2. The practical work improves their communication and writing skills, and at the same time equipping them to use modern forms of communication.
3. Developed effective oral communication skills for presentations and public speaking.

Unit	Description in detail	Credit	Weightage
I	The Gold Frame :- R.K.Laxman The Man who Liked Dickens - Evelyn Waugh Marriage is a Private Affair :- Chinua Achebe The Verger :- W. Somerset Maugham The Moon in the Earthen Pot :- GopiniKarunakar	0.75	35%
II	Vocabulary (Text Based)	0.75	35%
III	Grammar :- • Pronouns – kinds of pronouns • Preposition (Time/Place/Action) Concord (Subject verb agreement)	0.50	30%

4. Students will be able to understand the role of English as a global language and its implications for communication.

Content

Reference Books:

5. Fantasy a collection of short stories (Selected stories)
6. "Oxford Modern English Grammar" by Bas Aarts
7. "Longman English Grammar Practice" by L.G. Alexander



8. "English Grammar in Use" by Raymond Murphy

Online Resources:

3. <https://study.com/academy/lesson/articles-in-grammar-lesson-plan.html>
4. <https://www.grammarly.com/blog/articles/>

Course Outcome s	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)											
	PO- 1	PO- 2	PO- 3	PO- 4	PO- 5	PO- 6	PO- 7	PO- 8	PO- 9	PO- 10	PSO- 1	PSO- 2
CO-1	-		-	-	-	2	-	-	-	-	-	2
CO-2	-	2	-	-	-	-	2	-	-	-	-	-
CO-3	2	-	-	-	-	-	-	-	-	-	-	-
CO-4	-	-	-	-	-	-	-	2	-	-	-	2



Gokul Global University, Siddhapur.

Faculty of Arts, Humanities & Social Science New Syllabus NEP-2020 4 th Year Graduation Programme Session-2023-24



Program :	Bachelor of Arts	Subject / Branch :	English
Year :	2023/24 – 1 st	Semester:	II
Course :	Indian Knowledge System		
Course title :	Nationalism and Indian English Literature	Course code :	CPIKSENG205
Course type :	Theory (Core Compulsory)	Course credit :	02
Pre-requisite :	Basic knowledge of English		
Rationale :			

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
			Mid	CE		
2	2	0	25		25	50

Course Objective:

1. Explore the intersection of nationalism and Indian English literature, examining how literature reflects and shapes national identity.
2. Analyze the historical and socio-political context of Indian nationalism as depicted in English literary works.
3. Examine the role of Indian English literature in articulating diverse perspectives on nationalism.
4. Foster critical thinking by evaluating the impact of nationalism on literary expression in the Indian context.

Course Outcome:

1. Gain insights into the dynamic relationship between nationalism and the portrayal of Indian identity in English literature.
2. Analyze the historical and socio-political dimensions of Indian nationalism as reflected in literary texts.
3. Evaluate the diverse narratives and voices within Indian English literature that contribute to the discourse on nationalism.



4. Develop critical thinking skills by assessing the role of literature in shaping and challenging nationalist ideologies.

Content

Unit	Description in detail	Credit	Weightage
I	Rabindranth Tagore's <i>Gora</i>	1	35%
II	Major characters in <i>Gora</i>	1	35%
III	Acquaintances- match authors with their works. Mulk Raj Anand, Rabindranath Tagore, Raja Rao, R. K. Narayana, Manohar Malgaonkar, Khushwant Singh, G. V. Desani, Aurobindo, Bhabani Bhattacharya, K. S. Venkatramani	1	30%

Reference:

1. Tagore, Rabindranath. *Gora*. Sahitya Akademi, 2006.
2. Tagore, Rabindranath. *Nationalism*. Penguin UK, 2017.

Further Reading:

1. Kumar, Gajendra. *Indian English Literature : A New Perspective*. Sarup and Sons, 2001.
2. Kumar, Gajendra and Uday Shankar Ojha. *Indian English Literature: A Post-Colonial Response*. Sarup and Sons, 2005.

Course Outcome s	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PSO-1	PSO-2
CO-1	-		-	2	-	-	-	-	-	-	-	2
CO-2	1	-	-	-	-	-	1	-	-	-	1	-
CO-3	-	-	-	-	1	1	-	-	-	-	-	-
CO-4	2	-	-	-	-	-	-	2	-	-	-	1



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Program :	Bachelor of Arts	Subject / Branch :	English
Year :	2023/24 – 1 st	Semester:	II
Course :	Skill Enhancement Course		
Course title :	Communication Skills	Course code :	CPSECENG206
Course type :	Theory (Core Compulsory)	Course credit :	02
Pre-requisite :	Basic knowledge of English		
Rationale :			

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
2	2	0	Mid	CE		
			25		25	50

Course Objective:

1. Enhance students' verbal and non-verbal communication skills for effective interpersonal interactions.
2. Develop proficiency in written communication, emphasizing clarity, coherence, and audience awareness.
3. Cultivate active listening skills to foster better understanding and collaboration in diverse contexts.
4. Provide practical tools for effective public speaking and presentation skills.

Course Outcome:

1. Demonstrate improved verbal and non-verbal communication skills in diverse interpersonal settings.
2. Produce well-structured and coherent written communication tailored to specific audiences and purposes.
3. Apply active listening techniques to enhance comprehension and engagement in various communication scenarios.
4. Deliver effective and persuasive presentations, demonstrating confidence and clarity.



Content

Unit	Description in detail	Credit	Weightage
I	Letters of Business Communication 1. Letters of Inquiry 2. Letters of Orders	1	35%
II	Letters of Bank Correspondence 1. Opening a bank account 2. Stop-payment of a lost cheque	1	35%
III	Introduction to Basic of Letter Writing (Heading, Date, Inside Address, Subject, Salutation, Body of the Letter, Complimentary Close, Signature, Post-script, Enclosures) Drafting Emails and Applications 1. Social Emails 2. Application for Job	1	30%

Reference:

1. Maguire, Peter, and Carolyn Pitceathly. "Key communication skills and how to acquire them." *Bmj* 325.7366 (2002): 697-700.
2. Jacobson, Susan K. *Communication skills for conservation professionals*. Island Press, PO Box 7, Covelo, CA 95428, 1999.

Further Reading:

1. Sen, Leena. *Communication skills*. PHI Learning Pvt. Ltd., 2007.

Course Outcome s	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PSO-1	PSO-2
CO-1	-	3	-	2	-	-	-	-	-	-	-	-
CO-2	-	-	-	-	-	-	-	2	-	-	-	2
CO-3	-	2	-	1	-	-	-	-	-	-	-	-
CO-4	-	-	-	-	-	1	-	1	1	-	1	-



COURSE STRUCTURE

Bachelor of Arts

Gujarati



Gokul Global University, Siddhpur

Faculty of Arts and Humanities

New Syllabus NEP-2020

4th Year Graduation Programme

Session-2023-24

Details of Programmes Outcomes (PO), Programmes Specific

Outcomes (PSO) & Course Outcomes (CO)

PO 1	વિદ્યાર્થીઓની સાહિત્યિક દ્રષ્ટિ, કલ્પના દ્રષ્ટિ અને સૌંદર્યદ્રષ્ટિ વિકસે. To develop students' literary vision, imagination and aesthetic sense.
PO 2	સાહિત્ય એ સમાજનું દર્પણ છે. સમાજનું પ્રતિબિંબ છે એટલે સમાજ અને સાહિત્યની બદલાતી સ્થિતિઓ અભ્યાસક્રમ દ્વારા વિદ્યાર્થીઓ જાણે. Literature is a mirror of society. Students know the changing horizons of society and literature through the curriculum as it is a reflection of society.
PO 3	સ્વરૂપ અને વિષયવૈવિધ્યની દ્રષ્ટિએ સાહિત્યનો અભ્યાસ કરે. Study literature in terms of form and subject matter.
PO 4	સાહિત્યકૃતિઓ દ્વારા વિદ્યાર્થીઓ ભાષાભિમુખ, સાહિત્યભિમુખ, કલાભિમુખ અને જીવનાભિમુખ બને. Through literary works students become language oriented, literature oriented, art oriented and life oriented.
PO 5	વિદ્યાર્થીઓમાં ભાષાસજ્જતા અને ભાષાકૌશલ્યનો વિકાસ થાય અને સાહિત્ય દ્વારા જીવનમૂલ્યો અને નૈતિકમૂલ્યોનું જાતન અને સંવર્ધન થાય. To develop language proficiency and language skills in students and preserve and nurture life values and moral values through literature.
PO 6	વિદ્યાર્થીઓમાં ભાષા-સાહિત્યના અધ્યયન દ્વારા સામાજિક ઉત્તરદાયિત્વનો ખ્યાલ કેળવે. To inculcate the concept of social responsibility in the students through the study of language and literature.
PO 7	વિદ્યાર્થીઓ ભારતીયતાના ભાવ – વિચાર – વારસો- સંસ્કૃતિને જાણે. સંવેદનશીલ બને ભારતીય અને વિશ્વના નાગરિકો પ્રત્યે બંધુત્વભાવ અને વિશ્વબંધુત્વની સમભાવ કેળવે. Students should be sensitized to Indian values - thought - heritage - culture and develop fraternity and fraternity towards the citizens of India and the world.



PO 8	વિદ્યાર્થીઓ સ્પર્ધાત્મક પરીક્ષાઓ માટે સમક્ષ બને. Students appear for competitive exams.
PO 9	વિદ્યાર્થીઓમાં સર્જનકૌશલ્ય અને લેખનકૌશલ્ય વિકસે. Students develop creativity and writing skills.
PO 10	સાહિત્યના અધ્યયન દ્વારા ચારિત્ર્યનિર્માણ થાય. Character formation through the study of literature.

PROGRAM SPECIFIC OUTCOMES (PSO)

PSO1	Based on the detailed study of the History of Gujarati Literature, along with the Indian and the World Classics in Translations, the Genres of Gujarati Literatures, Critical Theories and Theorists of India and Abroad, Gujarati Language, grammar, poetics and linguistics, the student is capable to appear for any State or National level Public Service Commission Exams e.g GPSC / UPSC. ગુજરાતી સાહિત્યના ઇતિહાસના વિગતવાર અભ્યાસના આધારે, અનુવાદમાં ભારતીય અને વિશ્વના ક્લાસિક્સ, ગુજરાતી સાહિત્યના પ્રકારો, ભારત અને વિદેશના વિવેચનાત્મક સિદ્ધાંતો અને સિદ્ધાંતવાદીઓ, ગુજરાતી ભાષા, વ્યાકરણ, કાવ્યશાસ્ત્ર અને ભાષાશાસ્ત્રના વિગતવાર અભ્યાસના આધારે, વિદ્યાર્થી કોઈપણ રાજ્ય અથવા રાષ્ટ્રીય સ્તરની જાહેર સેવા આયોગની પરીક્ષાઓ માટે હાજર રહેવા માટે સક્ષમ છે જેમ કે GPSC/UPSC.
PSO 2	The Programme has the purpose to revive the classical language, its dialects and the values and culture incorporated in the language. It enables the students to develop literary viewpoint and understanding. The students develop aesthetics and art related point of view. It also enables students to conduct research and comparative study and indulge in creative writing to further contribute to the language and literature. The programme stresses on Socio-cultural aspect of literature and language and inculcates values as well as humanitarian approach. આ કાર્યક્રમનો હેતુ શાસ્ત્રીય ભાષા, તેની બોલીઓ અને ભાષામાં સમાવિષ્ટ મૂલ્યો અને સંસ્કૃતિને પુનર્જીવિત કરવાનો છે. તે વિદ્યાર્થીઓને સાહિત્યિક દૃષ્ટિકોણ અને સમજ વિકસાવવા માટે સક્ષમ બનાવે છે. વિદ્યાર્થીઓ સૌંદર્ય શાસ્ત્ર અને કલા સંબંધિત દૃષ્ટિકોણ વિકસાવે છે. તે વિદ્યાર્થીઓને સંશોધન અને તુલનાત્મક અભ્યાસ કરવા અને ભાષા અને સાહિત્યમાં વધુ યોગદાન આપવા માટે સર્જનાત્મક લેખનમાં વ્યસ્ત રહેવા માટે પણ સક્ષમ બનાવે છે. આ કાર્યક્રમ સાહિત્ય અને ભાષાના સામાજિક-સાંસ્કૃતિક પાસાઓ પર ભાર મૂકે છે અને મૂલ્યો તેમજ માનવતાવાદી અભિગમ કેળવે છે.



Semester Wise proposed titles of the paper in B.A Gujarati

Year	Sem	Paper/Course Code	Major /Minor/ Multidisciplina ry/	Proposed Title of Papers	Theory/ Practical	Credits
B.A	I	CPMJDS CGUJ101	Major	PDHYKRUTINO ABHYAS- MADHYAKALIN પદ્યકૃતિનો અભ્યાસ -મધ્યકાલીન	Theory	4
	I	CPMJDS CGUJ101A	Major	GDHYKRUTINO ABHYAS – ARVACHIN ગદ્યકૃતિનો અભ્યાસ -અર્વાચીન	Theory	4
	I	CPMIDSCGUJ102	Minor	PDHYKRUTINO ABHYAS- MADHYAKALIN પદ્યકૃતિનો અભ્યાસ -મધ્યકાલીન	Theory	4
	I	CPMDCGUJ103	Multidisciplina ry	SAHITYAKRUTI NO ABHYAS- GADHY સાહિત્યકૃતિનો અભ્યાસ- ગદ્ય (પ્રશિષ્ટ ગુજરાતી હાસ્યરચનાઓ)	Theory	4
	I	CPAECGUJ104	Ability Enhancement	GADHY ANE VYAVHARIK VYAKARAN ગદ્ય અને વ્યાવહારિક વ્યાકરણ નિયત કૃતિ : 'પ્રિયજન'- વીનેશ અંતાણી	Theory	2
	I	CPIKSGUJ105	Indian Knowledge System	BHARTIY GYANPARMPARA -4 ભારતીય જ્ઞાનપરંપરા – ૪ નિયત કૃતિ : 'માધવ ક્યાં નથી-' હરીન્દ્ર દવે	Theory	2
	I	CPSECGUJ106	Skilled Based Program	BHASHA SAJJATA ANE LEKHAN KAUSHLY -1 ભાષા સજ્જતા અને લેખન કૌશલ્ય -૧	Theory	2



Gokul Global University, Siddhpur
FACULTY OF ARTS AND HUMANITIES
New Syllabus NEP-2020
4 Year Graduation Program
Session-2023-24





Program :	Bachelor of Arts	Subject / Branch :	GUJARATI
Year :	2023/24 -1 st	Semester :	I
Course title :	Major Course -I PDHYKRUTINO ABHYAS- MADHYAKALIN પદ્યકૃતિનો અભ્યાસ -મધ્યકાલીન	Course code :	CPMJDS CGUJ101
Course type :	Theory	Course credit :	04
Pre-requisite :	Basic knowledge of Gujarati		
Rationale :			

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE	50	100
			50	00		

Course Objective :

- વિદ્યાર્થીઓ મધ્યકાલીન ગુજરાતી વિશે જ્ઞાન પ્રાપ્ત કરશે.
- વિદ્યાર્થીઓ સુદામાચરિત્ર વિશે પરિચય મેળવશે.
- વિદ્યાર્થીઓ ભાષાસજ્જતા વિશે અભ્યાસ કેળવશે.
- વિદ્યાર્થી વિરામચિહ્નો વિશે માહિતગાર થશે.

Course Outcome:

- મધ્યકાલીન ગુજરાતી સાહિત્યનાં પ્રમુખ સાહિત્ય સ્વરૂપોનો પરિચય મેળવે.
- મધ્યકાળના આખ્યાન શિરોમણી પ્રેમાનંદના જીવન અને કવન વિશે જાણે.
- જ્ઞાન – ભક્તિ – કર્મનો મહિમા સમજે.
- મિત્રપ્રેમ કેવો હોય તે જાણે.

Content

Unit	Description in detail	Credit	Weightage
I	(૧) મધ્યકાળના પ્રમુખ પદ્યપ્રકારો 1- પદ્ય 2- રાસ-રાસો 3- ફાગુ 4- પ્રબંધ 5- આખ્યાન 6- પદ્યવાર્તાનો પ્રાથમિક પરિચય (૨) પાદ્યકૃતિનું સાહિત્ય સ્વરૂપ (૩) આખ્યાનકવિ પ્રેમાનંદનું જીવન અને કવન	1	25 %



	(જ) આખ્યાનનો ઉદ્ભવ અને વિકાસ		
II	(૧) સાહિત્ય સ્વરૂપને આધારે કૃતિ સમીક્ષા (૨) કૃતિને આધારે સર્જકની વિશેષતાઓ અને મર્યાદાઓ (૩) યુગસંદર્ભે કૃતિનું મૂલ્યાંકન	1	25 %
III	કૃતિ આધારિત ટૂંકનોંધો - વસ્તુસંકલના - પાત્રાલેખનવર્ણનો - રસનિરૂપણ સામાજિક - ભાષાશૈલી વગેરે સંદર્ભ	1	25 %
IV	ભાષા સજ્જતા - વિરામચિહ્નો : - પૂર્ણત્વચિહ્નો : પૂર્ણવિરામ પ્રશ્નવિરામ ઉદ્ગારવિરામ અર્ધવિરામ, - અપૂર્ણત્વચિહ્નો : અલ્પવિરામ ગુરુવિરામ ગુરુરેખા - અન્ય ચિહ્નો : લઘુરેખા, લોપચિહ્નો, અવતરણચિહ્નો, વિગ્રહરેખા, કાકપદ, તિર્યકરેખા, કૌંસ. - વિધાર્થીએ વિરામચિહ્નની સંજ્ઞા સંકેત જણાવી તેનો ઉપયોગ અને ઉદાહરણ આપવાનું રહેશે (આઠમાંથી ગમે તે છ વિશે જવાબ લખવાના રહેશે.)	1	25 %

Reference Books:

1. ગુજરાતી સાહિત્યનો ઇતિહાસ (મધ્યકાલીન) : અનંતરાય રાવળ
2. ગુજરાતી સાહિત્યની વિકાસરેખા (મધ્યકાલીન) : ધીરુભાઈ ઠાકર (ગુર્જર)
3. મધ્યકાલીન ગુજરાતી સાહિત્યનો ઇતિહાસ : પ્રસાદ બ્રહ્મભટ્ટ (પાશ્વ)
4. આખ્યાન કવિ પ્રેમાનંદ : કે. કા. શાસ્ત્રી (આદર્શ)
5. કવિ શિરોમણી પ્રેમાનંદ : પ્રસાદ બ્રહ્મભટ્ટ (પાશ્વ)
6. ગુજરાતી વ્યાવહારિક વ્યાકરણ : અરવિંદ ભાંડારી (અરુણોદય પ્રકાશન, અમદાવાદ)
7. ગુજરાતી લેખન : નિયતિ અંતાણી (અરુણોદય પ્રકાશન, અમદાવાદ)
8. ગુજરાતી વિષયવસ્તુ : પ્રિ નટુભાઈ રાવલ (નીરવ પ્રકાશન અમદાવાદ)

Suggested Readings:

1. ગુજરાતી સાહિત્યનો ઇતિહાસ (ભાગ : 1-2) ગુજરાતી સાહિત્ય પરિષદ, અમદાવાદ
2. મધ્યકાલીન ગુજરાતી સાહિત્યનો ઇતિહાસ : રમેશ એમ. ત્રિવેદી

Online Resources:

- 1- <http://gujaratisahityaparishad.com/prakashan/navu/2012/madhyakalin-kavyashastra.html>



- 2- <https://gujarativishwakosh.org/>
3- www.youtube.com/watch?v=nF5j6q0pszI

Course Outcomes	Expected Mapping with Programme Outcomes (1-Weak Correlation; 2-Medium correlation; 3- Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PSO-1	PSO-2
CO-1	1	-	2	-	-	-	-	-	-	-	-	2
CO-2	-	2	-	-	-	1	-	-	-	1	1	
CO-3	-	-	1	-	-	-	2	-	2	-	2	-
CO-4	-	-	-	-	3	-	-	1	-		-	3



Gokul Global University, Siddhpur

FACULTY OF ARTS AND HUMANITIES

New Syllabus NEP-2020

4 Year Graduation Program

Session-2023-24



Program :	Bachelor of Arts	Subject / Branch :	GUJARATI
Year :	2023/24 – 1 st	Semester :	I
Course title :	Major Course -II GDHYKRUTINO ABHYAS – ARVACHIN ગદ્યકૃતિનો અભ્યાસ -અર્વાચીન	Course code :	CPMJDSCGUJ101A
Course type :	Theory	Course credit :	04
Pre-requisite :	Basic knowledge of Gujarati		
Rationale :			

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE	50	100
			50	00		

Course Objective :

- વિદ્યાર્થીઓ ગુજરાતી ગદ્ય સાહિત્ય વિશે જ્ઞાન પ્રાપ્ત કરશે.
- વિદ્યાર્થીઓ અર્વાચીનયુગના સ્વરૂપો વિશે પરિચય મેળવશે.
- વિદ્યાર્થીઓ ‘કૂવો’ સાહિત્યકૃતિનો અભ્યાસ કરશે.
- વિદ્યાર્થી વિદ્યાર્થીઓ ભાષાસજ્જતા વિશે માહિતી મેળવશે.

Course Outcome:

- અર્વાચીન ગુજરાતી સાહિત્યના પ્રમુખ ગદ્યપ્રકારો વિશે જાણે.
- નવલકથાનાં સ્વરૂપગત લક્ષણોનો પરિચય મેળવે.



૩. ગુજરાતી નવલકથાની ગતિવિધિથી પરિચિત થાય.

૪. ભાષા સજ્જતા પ્રાપ્ત કરે.

Content

Unit	Description in detail	Credit	Weightage
I	(અ) (૧) સામાન્ય પરિચય અર્વાચીન ગુજરાતીના પ્રમુખ ગદ્ય પ્રકારોનો સ્વરૂપલક્ષી પરિચય 1-નવલકથા 2-ટૂંકીવાર્તા 3-એકાંકી 4-લલિત નિબંધ 5- લઘુકથાનો પ્રાથમિક પરિચય (૨) પાઠ્યકૃતિનું સાહિત્ય સ્વરૂપ (૩) સર્જક અશોકપુરી ગોસ્વામીનું જીવન અને સાહિત્યિક પ્રદાન (૪) સર્જકવ્યક્તિત્વનાં ઘડતરબળો.	1	25 %
II	(૧) સ્વરૂપ આધારિત કૃતિ સમિક્ષા (૨) કૃતિને આધારે સર્જકની વિશેષતાઓ અને મર્યાદાઓ. (૩) સાંપ્રત નવલકથા સાહિત્યમાં કૃતિનું સ્થાન	1	25 %
III	ટૂંકનોંધ કૃતિલક્ષી ૧. પરિવેશ ૨. પાત્રનિરૂપણ ૩. સંઘર્ષ ૪. પ્રસંગો ૫. સંવાદો ૬. ગદ્ય વગેરે	1	25 %
IV	ભાષાસજ્જતા ૧. શબ્દસમૂહ માટે એક શબ્દ (નિયત કરેલા શબ્દોમાંથી) ૨. વર્ણભેદે અર્થભેદે (નિયત કરેલા શબ્દોમાંથી)	1	25 %

Reference Books:

૧. નવલકથા : પ્રવીણ દરજી – યુનિ.ગ્રંથનિર્માણ બોર્ડ, અમદાવાદ
૨. સ્વરૂપ સન્નીધાન : સં. સુમન શાહ – પાર્શ્વ
૩. નવલકથા : શિરીષ પંચાલ – અરુણોદય પ્રકાશન, અમદાવાદ
૪. કૂવો- મેઘાણી પરંપરાનું સતત્ય, વિ- વિદ્યાનગર, ફેબ્રુઆરી, ૨૦૦૮, અંક -૨ : ભરત મહેતા
૫. કૂવો – વિશે : પરબ – ઓપ્રિલ, ૧૯૯૮ : પારુલ રાઠોડ
૬. ગ્રામજીવનની સાહોત્તરી ગુજરાતી નવલકથા – ડૉ. કે. એમ. મકવાણા



૭. ભાષા સજ્જતા અને લેખન કૌશલ : યોગેન્દ્ર વ્યાસ - અરુણોદય પ્રકાશન, અમદાવાદ

૮. ગુજરાતી વિષયવસ્તુ : પ્રિ. નટુભાઈ રાવલ – નીરવ પ્રકાશન

Suggested Readings:

૧. નવલકથા – શિલ્પ અને સ્વરૂપ : નરેશ વેદ – પાશ્વ પ્રકાશન, અમદાવાદ

૨. ગુજરાતી શબ્દાર્થકોશ : યોગેન્દ્ર વ્યાસ, અરવિંદ ભાંડારી - અરુણોદય પ્રકાશન, અમદાવાદ

૩. કથાસત્ર : કુમાર જૈમિની શાસ્ત્રી – આદર્શ પ્રકાશન, અમદાવાદ

Online Resources:

૧. <https://gujarativishwakosh.org/>
૨. <https://gujlit.com/book-details.php?bId=174>

Course Outcomes	Expected Mapping with Programme Outcomes (1-Weak Correlation; 2-Medium correlation; 3- Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PSO-1	PSO-2
CO-1	-	1	-	-	-	3	-	-	1	-	-	2
CO-2	-	-	-	-	-	3	-	-	-	2	-	-
CO-3	-	-	2	-	-	-	1	-	-	-	-	-
CO-4	2	-	-	-	1	-	-	2	-	-	1	3



Gokul Global University, Siddhpur



FACULTY OF ARTS AND HUMANITIES

New Syllabus NEP-2020

4 Year Graduation Program

Session-2023-24

Program :	Bachelor of Arts	Subject / Branch :	GUJARATI
Year :	2023/24 -1 st	Semester :	I
Course title :	Minor Course -I PDHYKRUTINO ABHYAS- MADHYAKALIN પદ્યકૃતિનો અભ્યાસ -મધ્યકાલીન	Course code :	CPMIDSCGUJ102
Course type :	Theory	Course credit :	04
Pre-requisite :	Basic knowledge of Gujarati		
Rationale :			

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE	50	100
			50	00		

Course Objective :

- વિદ્યાર્થીઓ મધ્યકાલીન ગુજરાતી વિશે જ્ઞાન પ્રાપ્ત કરશે.
- વિદ્યાર્થીઓ સુદામાચરિત્ર વિશે પરિચય મેળવશે.
- વિદ્યાર્થીઓ ભાષાસજ્જતા વિશે અભ્યાસ કેળવશે.
- વિદ્યાર્થી વિરામચિહ્નો વિશે માહિતગાર થશે.

Course Outcome:

- મધ્યકાલીન ગુજરાતી સાહિત્યનાં પ્રમુખ સાહિત્ય સ્વરૂપોનો પરિચય મેળવે.
- મધ્યકાળના આખ્યાન શિરોમણી પ્રેમાનંદના જીવન અને કવન વિશે જાણે.
- જ્ઞાન – ભક્તિ – કર્મનો મહિમા સમજે.
- ભાષા અને વ્યાકરણની પાયાની સમાજ કેળવે.



Content

Unit	Description in detail	Credit	Weightage
I	(૧) મધ્યકાળના પ્રમુખ પદ્યપ્રકારો 7- પદ 8- રાસ-રાસો 9- ફાગુ 10- પ્રબંધ 11- આખ્યાન 12- પદ્યવાર્તાનો પ્રાથમિક પરિચય (૨) પાઠ્યકૃતિનું સાહિત્ય સ્વરૂપ (૩) આખ્યાનકવિ પ્રેમાનંદનું જીવન અને કવન (૪) આખ્યાનનો ઉદ્ભવ અને વિકાસ	1	25 %
II	(૧) સાહિત્ય સ્વરૂપને આધારે કૃતિ સમીક્ષા (૨) કૃતિને આધારે સર્જકની વિશેષતાઓ અને મર્યાદાઓ (૩) યુગસંદર્ભ કૃતિનું મૂલ્યાંકન	1	25 %
III	કૃતિ આધારિત ટૂંકનોંધો - વસ્તુસંકલના - પાત્રાલેખનવર્ણનો - રસનિરૂપણ સામાજિક - ભાષાશૈલી વગેરે સંદર્ભ	1	25 %
IV	ભાષા સજ્જતા - વિરામચિહ્નો : - પૂર્ણત્વચિહ્નો : પૂર્ણવિરામ પ્રશ્નવિરામ ઉદ્ગારવિરામ અર્ધવિરામ, - અપૂર્ણત્વચિહ્નો : અલ્પવિરામ ગુરુવિરામ ગુરુરેખા - અન્ય ચિહ્નો : લઘુરેખા, લોપચિહ્નો, અવતરણચિહ્નો, વિગ્રહરેખા, કાકપદ, તિર્યકરેખા, કૌંસ. - વિદ્યાર્થીએ વિરામચિહ્નની સંજ્ઞા સંકેત જણાવી તેનો ઉપયોગ અને ઉદાહરણ આપવાનું રહેશે (આઠમાંથી ગમે તે છ વિશે જવાબ લખવાના રહેશે.)	1	25 %

Reference Books:

9. ગુજરાતી સાહિત્યનો ઇતિહાસ (મધ્યકાલીન) : અનંતરાય રાવળ
10. ગુજરાતી સાહિત્યની વિકાસરેખા (મધ્યકાલીન) : ધીરુભાઈ ઠાકર (ગુર્જર)
11. મધ્યકાલીન ગુજરાતી સાહિત્યનો ઇતિહાસ : પ્રસાદ બ્રહ્મભટ્ટ (પાશ્વ)
12. આખ્યાન કવિ પ્રેમાનંદ : કે. કા. શાસ્ત્રી (આદર્શ)
13. કવિ શિરોમણી પ્રેમાનંદ : પ્રસાદ બ્રહ્મભટ્ટ (પાશ્વ)
14. ગુજરાતી વ્યાવહારિક વ્યાકરણ : અરવિંદ ભાંડારી (અરુણોદય પ્રકાશન, અમદાવાદ)



15. ગુજરાતી લેખન : નિયતિ અંતાણી (અરુણોદય પ્રકાશન, અમદાવાદ)
16. ગુજરાતી વિષયવસ્તુ : પ્રિ નટુભાઈ રાવલ (નીરવ પ્રકાશન અમદાવાદ)

Suggested Readings:

3. ગુજરાતી સાહિત્યનો ઇતિહાસ (ભાગ : 1-2) ગુજરાતી સાહિત્ય પરિષદ, અમદાવાદ
4. મધ્યકાલીન ગુજરાતી સાહિત્યનો ઇતિહાસ : રમેશ એમ. ત્રિવેદી

Online Resources:

- 4- <http://gujaratisahityaparishad.com/prakashan/navu/2012/madhyakalin-kavyashastra.html>
5- <https://gujarativishwakosh.org/>
6- www.youtube.com/watch?v=nF5j6q0pszI

Course Outcomes	Expected Mappingwith Programme Outcomes (1-WeakCorrelation; 2-Mediumcorrelation; 3- Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PSO-1	PSO-2
CO-1	1	-	2	-	-	-	-	-	-	-	-	2
CO-2	-	2	-	-	-	1	-	-	-	1	1	-
CO-3	-	-	1	-	-	-	2	-	2	-	2	-
CO-4	-	-	-	-	3	-	-	1	-	-	-	3



Gokul Global University, Siddhpur
FACULTY OF ARTS AND HUMANITIES
New Syllabus NEP-2020
4 Year Graduation Program
Session-2023-24



Program :	Bachelor of Arts	Subject / Branch :	GUJARATI
Year :	2022/23	Semester :	I
Course title :	Multidisciplinary -I SAHITYAKRUTI NO ABHYAS- GADHY સાહિત્યકૃતિનો અભ્યાસ- ગદ્ય (પ્રશિષ્ટ ગુજરાતી હાસ્યરચનાઓ)	Course code :	CPMDCGUJ103
Course type :	Theory	Course credit :	04
Pre-requisite :	Basic knowledge of Gujarati		
Rationale :			

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE	50	100
			50	00		

Course Objective :

- વિદ્યાર્થીઓ ગુજરાતી સાહિત્ય વિશે જ્ઞાન પ્રાપ્ત કરશે.
- વિદ્યાર્થીઓ ગુજરાતી હાસ્ય'રચનાઓ વિશે પરિચય મેળવશે.
- વિદ્યાર્થીઓ હાસ્ય સર્જકો વિશે માહિતગાર થશે.
- વિદ્યાર્થીઓ લેખન કૌશલ્ય વિશે સમજ કેળવશે.

Course Outcome:

- હાસ્યરચનાઓ (હાસ્ય નિબંધો) દ્વારા આનંદ) દ્વારા આનંદ મેળવે.
- હાસ્ય નિબંધના સ્વરૂપને સમજે.
- હાસ્ય, કટાક્ષ, વ્યંગ્ય, ઉપહાસ, નર્મ-મર્મ, વિનોદ વગેરે હાસ્યનાં તત્ત્વોને માણે અને સમજે.
- ભાષા સજ્જતા કેળવે.

Content

Unit	Description in detail	Credit	Weightage
I	હાસ્યનિબંધ ક્ષેત્રે નિમ્નસૂચિત સર્જકોના પ્રદાનનો પરિચય ૧. જ્યોતિન્દ્ર દવે. ૨. રમણભાઈ નીલકંઠ ૩. બકુલ ત્રિપાઠી ૪. રતિલાલ બોરીસાગર	1	25 %



	પ. વિનોદ ભટ્ટ દ. તારક મહેતા (પરીક્ષામાં ત્રણમાંથી ગમે તે એક વિશે જવાબ લખવાનો રહેશે.)		
II	સમિક્ષાત્મક પ્રશ્નો - હાસ્યરચનાઓનું સમગ્રલક્ષી મૂલ્યાંકન - મહત્વની ટૂંકનોંધ	1	25 %
III	હાસ્યનિબંધનો આસ્વાદમૂલક પરિચય (ત્રણમાંથી ગમે તે એક)	1	25 %
IV	ભાષાસજ્જતા : - સમાનાર્થી શબ્દો (નિયત કરેલા શબ્દોમાંથી) - વિરુદ્ધથી શબ્દો (નિયત કરેલા શબ્દોમાંથી) (બંને બાર –બાર પૂછાશે નવ –નવના જવાબ લખવાના રહેશે.)	1	25 %

નિમ્નલિખિત હાસ્યરચનાઓ પાઠ્યક્રમમાં નિયત કરવામાં આવે છે.

૧. થોમિયા – રમણભાઈ નીલકંઠ
૨. સાહિત્ય અને અસ્પષ્ટતા – જયોતીન્દ્ર દવે.
૩. શાકુંતલનો ગૂઢાર્થ – રા. વિ. પાઠક
૪. સાહિત્યમાં અપહરણ – બકુલ ત્રિપાઠી
૫. વાંચવા લાવેલું પુસ્તક પાછું ન... – રતિલાલ બોરીસાગર
૬. કવિ ભાસ્કર દવેની શોકસભા – વિનોદ ભટ્ટ
૭. ૨૦૧૦નાં ઊંઘા યશ્માં – તારક મહેતા
૮. કેટલાક વાણલખ્યા રિવાજો- મન્નુ શેખચંડલી
૯. શ્વાનસંસદની રાત્રી બેઠક – ઉર્વશી કોઠારી
૧૦. બેસી રહેવાની કળા – કલ્પના દેસાઈ
૧૧. બેગ બાંધ્યાની વેળાએ – સંજય છેલ

Reference Books:

૧. ગુજરાતી હાસ્યધારા – સં. વિનોદ ભટ્ટ
૨. અર્વાચીન ગુજરાતી સાહિત્યની વિકાસરેખા – ધીરુભાઈ ઠાકર
૩. વિનોદ વિમર્શ
૪. નિબંધ : સ્વરૂપ અને વિકાસ – પ્રવિણ દરજી
૫. નિબંધ અને ગુજરાતી સાહિત્યનો આસ્વાદ – મધુસુધન પારેખ
૬. ગુજરાતીમાં હાસ્ય અને કટાક્ષ - મધુસુધન પારેખ

Suggested Readings:



૧. હાસ્યમંદિર – રમણભાઈ નીલકંઠ
૨. હળવા નિબંધનું સાહિત્ય - મધુસુધન પારેખ

Online Resources:

૧. <https://www.bookpratha.com/bookdetail/Index/289131?name=Prashisht-Gujarati-Hasyarachanao>
૨. <https://www.bookpratha.com/bookdetail/Index/133281?name=Shreshth-Hasyarachanao-Jyotindra-Dave>

Course Outcomes	Expected Mapping with Programme Outcomes (1-Weak Correlation; 2-Medium correlation; 3- Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PSO-1	PSO-2
CO-1	-	1	-	1	-	3	-	-	1	-	-	-
CO-2	-	2	-	-	-	3	-	-	-	2	-	-
CO-3	-	-	2	-	-	-	1	-	-	-	2	-
CO-4	1	-	-	-	2	-	-	3	-	-	-	3



विद्या अनन्तम्

Gokul Global University, Siddhpur
FACULTY OF ARTS AND HUMANITIES

New Syllabus NEP-2020
4 Year Graduation Program
Session-2023-24



Program :	Bachelor of Arts	Subject / Branch :	GUJARATI
Year :	2022/23	Semester :	I
Course title :	AEC GADHY ANE VYAVHARIK VYAKARAN ગદ્ય અને વ્યાવહારિક વ્યાકરણ નિયત કૃતિ : 'પ્રિયજન'- વીનેશ અંતાણી	Course code :	CPAECGUJ104
Course type :	Theory	Course credit :	02
Pre-requisite :	Basic knowledge of Gujarati		
Rationale :			

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme		
Lecture	Tutorial	Practical	Internal		External
			Mid	CE	Total
2	0	0	25	00	25
					50

Course Objective :

- વિદ્યાર્થીઓ ગદ્ય વિશે જ્ઞાન પ્રાપ્ત કરશે.
- વિદ્યાર્થીઓ વ્યાવહારિક વ્યાકરણ વિશે પરિચય મેળવશે.
- વિદ્યાર્થીઓ પ્રિયજન કૃતિ વિશે સમજ કેળવશે.
- વિદ્યાર્થીઓ ભાષા સજ્જતા વિશે માહિતગાર થશે.

Course Outcome:

- નવલકથાની સ્વરૂપગત લાક્ષણિકતાઓથી પરિચિત થાય.
- નવલકથા અને ઐતિહાસિક નવલકથાનો ભેદ સમજે.
- વ્યાવહારિક વ્યાકરણમાં સજ્જતા પ્રાપ્ત કરે.
- સ્પર્ધાત્મક પરીક્ષાઓ માટે સક્ષમ બને.

Content

Unit	Description in detail	Credit	Weightage
	૧. નિયત કૃતિ (પ્રિયજન) ની આસ્વાદમૂલક સમીક્ષા	1	35 %



I	૨. કૃતિ આધારિત ટૂંકનોંધો		
II	ગદ્યાર્થ ગ્રહણ - વિદ્યાર્થીએ ગદ્યખંડ વાંચીને તેની નીચે પૂછેલા પ્રશ્નોના જવાબ લખવાના રહેશે. - એકબીજાના વિકલ્પે પ્રશ્ન પૂછાશે.	0.5	35 %
III	નિપાત અને તેના પ્રકાર 1) ભારવાચક 2) સીમાવાચક 3) વિનયવાચક 4) પ્રકીર્ણ/લટકણિયાંરૂપ	0.5	30 %

Reference Books:

૧. ગુજરાતી નવલકથા – સુધીર ચૌધરી
૨. નવલકથા : શિલ્પ અને સ્વરૂપ : નરેશ વેદ
૩. ગુજરાતી કથાવિશ્વ : બાબુ દાવલપુરા
૪. ભાષા પરિચય અને ગુજરાતી ભાષાનું સ્વરૂપ : જયંત કોઠારી
૫. ગુજરાતી વ્યાવહારિક વ્યાકરણ : અરવિંદ ભાંડારી

Suggested Readings:

૧. ગુજરાતી વિષયવસ્તુ : પ્રિ. નટુભાઈ રાવલ
૨. કથાસર્જક વીનેશ અંતાણી : એક અભ્યાસ (શોધનિબંધ) – ડૉ. ચંદ્રેશ બારોટ

Online Resources:

૧. https://gcert.gujarat.gov.in/gcert/Portal/2017/PDF/swavadhyan/Std-8_Gujarati_sem%201.pdf
૨. <https://gujarativishwakosh.org/>

Course Outcomes	Expected Mapping with Programme Outcomes (1-Weak Correlation; 2-Medium correlation; 3- Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PSO-1	PSO-2



CO-1	-	1	-	2	-	3	-	-	1	-	-	-
CO-2	-	-	-	-	-	-	3	-	-	2	-	-
CO-3	-	-	2	-	2	-	-	-	-	-	3	-
CO-4	1	-	-	-	-	-	-	1	-	-	-	3



Gokul Global University, Siddhpur

FACULTY OF ARTS AND HUMANITIES

New Syllabus NEP-2020
4 Year Graduation Program
Session-2023-24



Program :	Bachelor of Arts	Subject / Branch :	GUJARATI
Year :	2022/23	Semester :	I
Course title :	IKS BHARTIY GHYNPARMPRA ભારતીય જ્ઞાનપરંપરા – ૪ નિયત કૃતિ ' :માધવ ક્યાં નથી- ' હરીન્દ્ર દવે	Course code :	CPIKSGUJ105
Course type :	Theory	Course credit :	02
Pre-requisite :	Basic knowledge of Gujarati		
Rationale :			

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
2	0	0	Mid	CE	25	50
			25	00		



Course Objective :

- વિદ્યાર્થીઓ ભારતીય જ્ઞાનપરંપરાનું જ્ઞાન પ્રાપ્ત કરશે.
- વિદ્યાર્થીઓ શ્રીમદ્ભાગવત વિશે પરિચય મેળવશે.
- વિદ્યાર્થીઓ 'માધવ ક્યાં નથી' નવલકથા વિશે માહિતી મેળવશે.
- વિદ્યાર્થીઓ સાહિત્યમાં ભારતીયતા વિશે માહિતગાર થશે.

Course Outcome:

- ભારતીય સંસ્કૃતિના જ્ઞાન વારસાથી પરિચિત થાય.
- નવલકથા સ્વરૂપમાં નિરુપિત શ્રીકૃષ્ણના ચરિત્રને જાણે.
- શ્રીકૃષ્ણ ચરિત્ર આવેખતા શ્રીમદ્ભાગવત જેવા ગ્રંથો તથા અન્ય કૃષ્ણ ચરિત્ર વિષયક નવલકથાઓ વાંચવા પ્રેરાય.
- વિદ્યાર્થીઓ સાહિત્યમાં ભારતીયતાના ભેદ સમજે.

Content

Unit	Description in detail	Credit	Weightage
I	૧. સર્જક હરીન્દ્ર દેવેના જીવન અને કવન વિશે. ૨. સર્જકનું સાહિત્યિક પ્રદાન વિશે.	1	35%
II	૨. સર્જકનું સાહિત્યિક પ્રદાન વિશે.	0.5	35 %
III	નિયત કૃતિનો આસ્વાદમૂલક પરિચય ૧. 'માધવ ક્યાં નથી' નવલકથાનો પરિચય. - માધવ ક્યાં નથી ' હરીન્દ્ર દેવેની નવલકથામાં કૃષ્ણ જન્મથી લઈને દેહવિલય સુધીના કૃષ્ણ જીવન અને નારદ કૃષ્ણ પ્રત્યેની ભક્તિનું ભાવનાત્મક વર્ણન જોવા મળે છે. ૧. દેવકીનું આઠમું સંતાન ૨. મને કહો ! ૩. યમુનાના ખોળેથી...! ૪. વૃંદાવનની વાટ સામે પડી છે !!! ૫. કૃષ્ણ અહીં જ છે, નંદા !! ૬. કૃષ્ણ આવે છે !! ૭. જરાસંઘ આવે છે !! ૮. એક મન હતું, તે ગયું !! ૯. કૃષ્ણ અહીં નથી !!	05	30 %



૧૦. ત્રિવક્રાના ભવનમાં કૃષ્ણ ...		
૧૧. જરાસંઘની રાજસભામાં અંકૂર		
૧૨. જોઈએ, કૃષ્ણ કોને મળે છે ?		
૧૩. આ શોધ શા માટે ?		
૧૪. ડુંગરે દવ લાગ્યો		
૧૫. લોકોત્તર વાણી		
૧૬. કૃષ્ણની વિરુદ્ધ દિશામાં		
૧૭. 'એ અધર્મી કૃષ્ણ કહેજો...'		
૧૮. 'ગોવિંદ... ગોવિંદ...!'		
૧૯. 'પણ ક્યારે ?'		
૨૦. સત્યનો પક્ષ કયો ?		
૨૧. કોની જીત ?		
૨૨. 'મારે યુદ્ધ નથી કરવું'		
૨૩. 'દેવર્ષિઓમાં હું નારદ છું!'		
૨૪. 'વીરત્વનું વરદાન'		
૨૫. 'કૃષ્ણનો અવાજ'		
૨૬. '...તો આ બાળક સજીવન થાઓ!'		

Reference Books:

૧. ગુજરાતી નવલકથા : રઘુવીર ચૌધરી
૨. નવલકથા : પ્રવીણ દરજી, યુનિવર્સિટી ગ્રંથનિર્માણ બોર્ડ – અમદાવાદ
૩. નવલકથા : શિરીષ પંચાલ, અરુણોદય પ્રકાશન – અમદાવાદ
૪. કથાવિશ્વ : બાબુ દાવલપુરા અને નરેશ વેદ, પાર્શ્વ પબ્લિકેશન – અમદાવાદ
૫. ગુજરાતી સાહિત્યનો ઇતિહાસ, ગુજરાતી સાહિત્ય પરિષદ – અમદાવાદ

Suggested Readings:

૧. માધવ ક્યાંય નથી (આસ્વાદ અને અવબોધ), આદર્શ પ્રકાશન – અમદાવાદ
૨. હરીન્દ્ર દવેની સાહિત્યસિધ્ધિ : અંજની મહેતા, આદર્શ પ્રકાશન – અમદાવાદ

Online Resources:

- ૧- <https://www.sahityasetu.co.in/issue33/aarti.php>
૨. <https://ekatra.pressbooks.pub/kavyasvado>



Course Outcomes	Expected Mappingwith Programme Outcomes (1-WeakCorrelation; 2-Mediumcorrelation; 3- Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PSO-1	PSO-2
CO-1	-	1	-	-	1	3	-	1	-	-	-	-
CO-2	2	-	-	-	-	-	-	-	-	2	-	-
CO-3	-	-	2	-	-	-	1	-	-	-	2	-
CO-4	-	-	-	3	-	-	-	-	1	-	-	3



Gokul Global University, Siddhpur
FACULTY OF ARTS AND HUMANITIES
New Syllabus NEP-2020
4 Year Graduation Program
Session-2023-24



Program :	lor of Arts	Subject / Branch :	GUJARATI
Year :	2022/23	Semester :	I
Course title :	ભાષા સજ્જતા અને લેખન કૌશલ્ય -૧	Course code :	CPSECGUJ106
Course type :	Theory	Course credit :	02
Pre-requisite :	Basic knowledge of Gujarati		
Rationale :			

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
			Mid	CE		
3	0	0	25		25	50

Course Objective :

- વિદ્યાર્થીઓ ભાષા સજ્જતા વિશે જ્ઞાન પ્રાપ્ત કરશે.
- વિદ્યાર્થીઓ સાંપ્રત નિબંધો વિશે પરિચય મેળવશે.



૩. વિદ્યાર્થીઓ જોડણી વિશે સમજ કેળવશે.

૪. વિદ્યાર્થીઓ રૂઢીપ્રયોગો વિશે સમજ કેળવશે.

Course Outcome:

૧. માતૃભાષા સાથે નિસબત કેળવે
૨. લેખન કૌશલ્ય વિકસાવે.
૩. ગુજરાતી ભાષાના વ્યવહારિક લેખન તરફ અભિમુખ બને.
૪. સ્પર્ધાત્મક પરીક્ષાઓ માટે સક્ષમ બને.

Content

Unit	Description in detail	Credit	Weightage
I	સાંપ્રત નિબંધો (ચારમાંથી એક) - નિબંધના વિષયોનું ફલક આ પ્રમાણે રહેશે. ૧. કુદરતી આફતો- હોનારત ૨. પ્રકૃતિસૌદર્ય ૩. શિક્ષણવિષયક ૪. વર્તમાન સમસ્યાઓ ૫. કાલ્પનિક	1	35 %
II	જોડણીશુધ્ધિ - નિયત કરેલા શબ્દોમાંથી વીસ શબ્દો પૂછાશે. કોઈ પણ સત્તર શબ્દોની સાચી જોડણી લખવાની રહેશે.	0.5	35 %
III	રૂઢીપ્રયોગો - નિયત કરેલા રૂઢીપ્રયોગોમાંથી બાર પૂછાશે. કોઈ પણ નાવના અર્થ લખી તેનો વાક્યમાં પ્રયોગ કરવાનો રહેશે.	0.5	30 %

Reference Books:

૧. ભાષા સજ્જતા અને લેખન કૌશલ્ય : ડૉ. યોગેન્દ્ર વ્યાસ- પાર્શ્વ પબ્લીકેશન . અમદાવાદ
૨. સાહિત્યાયન : બાબુ દાવલપુરા, પાર્શ્વ પબ્લીકેશન . અમદાવાદ
૩. ગુજરાતી શબ્દાર્થકોશ : યોગેન્દ્ર વ્યાસ – અરુણોદય પ્રકાશન
૪. સાર્થ ગુજરાતી જોડણીકોશ : ગુજરાત વિદ્યાપીઠ
૫. ગુજરાતીનું વિષયવસ્તુ : નટુભાઈ રાવલ – નીરવ પ્રકાશન
૬. રૂઢીપ્રયોગો, કહેવતો અને છંદ- અંલકાર : પ્રસાદ બ્રહ્મભટ્ટ : પાર્શ્વ પબ્લીકેશન . અમદાવાદ
૭. અપઠિત, લેખન કૌશલ્ય અને પરિશીલન : નીતિન વડગામ
૮. વિદ્યાર્થી જોડણીકોશ : સં. કનૈયાલાલ જોશી – કુસુમ પ્રકાશન

Suggested Readings:

૧. વ્યવહારભાષા, અરજીલેખન અને પત્રલેખન : પ્રસાદ બ્રહ્મભટ્ટ
૨. ગુજરાતી વ્યાવહારિક વ્યાકરણ : અરવિંદ ભાંડારી - અરુણોદય પ્રકાશન
૩. ગુજરાતી લેખન : નિયતી અંતાણી - અરુણોદય પ્રકાશન



Online Resources:

૧. www.youtube.com/watch?v=uUZb6EmCyH0
૨. www.youtube.com/watch?v=ur7UC-wG3Fg

Course Outcomes	Expected Mappingwith Programme Outcomes (1-WeakCorrelation; 2-Mediumcorrelation; 3- Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PSO-1	PSO-2
CO-1	-	1	-	3	-	-	-	1	1	-	-	-
CO-2	-	-	-	-	-	3	-	-	-	2	-	-
CO-3	-	-	2	-	-	-	1	-	-	-	3	-
CO-4	1	-	-	-	3	-	-	-	-	-	-	3

COURSE STRUCTURE

Bachelor of Arts



Gujarati

Gokul Global University, Siddhpur

Faculty of Arts and Humanities

New Syllabus NEP-2020

4th Year Graduation Programme

Session-2023-24

Details of Programmes Outcomes (PO), Programmes Specific

Outcomes (PSO) & Course Outcomes (CO)

PO 1	વિદ્યાર્થીઓની સાહિત્યિક દ્રષ્ટિ, કલ્પના દ્રષ્ટિ અને સૌંદર્યદ્રષ્ટિ વિકસે. To develop students' literary vision, imagination and aesthetic sense.
PO 2	સાહિત્ય એ સમાજનું દર્પણ છે. સમાજનું પ્રતિબિંબ છે એટલે સમાજ અને સાહિત્યની બદલાતી ક્ષિતિજો અભ્યાસક્રમ દ્વારા વિદ્યાર્થીઓ જાણે. Literature is a mirror of society. Students know the changing horizons of society and literature through the curriculum as it is a reflection of society.
PO 3	સ્વરૂપ અને વિષયવૈવિધ્યની દ્રષ્ટિએ સાહિત્યનો અભ્યાસ કરે. Study literature in terms of form and subject matter.



P0 4	સાહિત્યકૃતિઓ દ્વારા વિદ્યાર્થીઓ ભાષાભિમુખ, સાહિત્યાભિમુખ, કલાભિમુખ અને જીવનાભિમુખ બને. Through literary works students become language oriented, literature oriented, art oriented and life oriented.
P0 5	વિદ્યાર્થીઓમાં ભાષાસજ્જતા અને ભાષાકૌશલ્યનો વિકાસ થાય અને સાહિત્ય દ્વારા જીવનમૂલ્યો અને નૈતિકમૂલ્યોનું જતન અને સંવર્ધન થાય. To develop language proficiency and language skills in students and preserve and nurture life values and moral values through literature.
P0 6	વિદ્યાર્થીઓમાં ભાષા-સાહિત્યના અધ્યયન દ્વારા સામાજિક ઉત્તરદાયિત્વનો ખ્યાલ કેળવે. To inculcate the concept of social responsibility in the students through the study of language and literature.
PO 7	વિદ્યાર્થીઓ ભારતીયતાના ભાવ – વિચાર – વારસો- સંસ્કૃતિને જાણે. સંવેદનશીલ બને ભારતીય અને વિશ્વના નાગરિકો પ્રત્યે બંધુત્વભાવ અને વિશ્વબંધુત્વની સમભાવ કેળવે. Students should be sensitized to Indian values - thought - heritage - culture and develop fraternity and fraternity towards the citizens of India and the world.
PO 8	વિદ્યાર્થીઓ સ્પર્ધાત્મક પરીક્ષાઓ માટે સમક્ષ બને. Students appear for competitive exams.
PO 9	વિદ્યાર્થીઓમાં સર્જનકૌશલ્ય અને લેખનકૌશલ્ય વિકસે. Students develop creativity and writing skills.
PO 10	સાહિત્યના અધ્યયન દ્વારા ચારિત્ર્યનિર્માણ થાય. Character formation through the study of literature.

PROGRAM SPECIFIC OUTCOMES (PSO)

PSO1	Based on the detailed study of the History of Gujarati Literature, along with the Indian and the World Classics in Translations, the Genres of Gujarati Literatures, Critical Theories and Theorists of India and Abroad, Gujarati Language, grammar, poetics and



	linguistics, the student is capable to appear for any State or National level Public Service Commission Exams e.g GPSC / UPSC. ગુજરાતી સાહિત્યના ઇતિહાસના વિગતવાર અભ્યાસના આધારે, અનુવાદમાં ભારતીય અને વિશ્વના ક્લાસિક્સ, ગુજરાતી સાહિત્યના પ્રકારો, ભારત અને વિદેશના વિવેચનાત્મક સિદ્ધાંતો અને સિદ્ધાંતવાદીઓ, ગુજરાતી ભાષા, વ્યાકરણ, કાવ્યશાસ્ત્ર અને ભાષાશાસ્ત્રના વિગતવાર અભ્યાસના આધારે, વિદ્યાર્થી કોઈપણ રાજ્ય અથવા રાષ્ટ્રીય સ્તરની જાહેર સેવા આયોગની પરીક્ષાઓ માટે હાજર રહેવા માટે સક્ષમ છે જેમ કે GPSC/UPSC.
PS0 2	The Programme has the purpose to revive the classical language, its dialects and the values and culture incorporated in the language. It enables the students to develop literary viewpoint and understanding. The students develop aesthetics and art related point of view. It also enables students to conduct research and comparative study and indulge in creative writing to further contribute to the language and literature. The programme stresses on Socio-cultural aspect of literature and language and inculcates values as well as humanitarian approach. આ કાર્યક્રમનો હેતુ શાસ્ત્રીય ભાષા, તેની બોલીઓ અને ભાષામાં સમાવિષ્ટ મૂલ્યો અને સંસ્કૃતિને પુનર્જીવિત કરવાનો છે. તે વિદ્યાર્થીઓને સાહિત્યિક દૃષ્ટિકોણ અને સમજ વિકસાવવા માટે સક્ષમ બનાવે છે. વિદ્યાર્થીઓ સૌંદર્ય શાસ્ત્ર અને કલા સંબંધિત દૃષ્ટિકોણ વિકસાવે છે. તે વિદ્યાર્થીઓને સંશોધન અને તુલનાત્મક અભ્યાસ કરવા અને ભાષા અને સાહિત્યમાં વધુ યોગદાન આપવા માટે સર્જનાત્મક લેખનમાં વ્યસ્ત રહેવા માટે પણ સક્ષમ બનાવે છે. આ કાર્યક્રમ સાહિત્ય અને ભાષાના સામાજિક-સાંસ્કૃતિક પાસાઓ પર ભાર મૂકે છે અને મૂલ્યો તેમજ માનવતાવાદી અભિગમ કેળવે છે.

Semester Wise proposed titles of the paper in B.A Gujarati

Year	Sem	Paper/Course Code	Major /Minor/ Multidisciplinary/	Proposed Title of Papers	Theory/ Practical	Credits
B.A	I	CPMJDS CGUJ101	Major	PDHYKRUTINO ABHYAS- MADHYAKALIN પદ્યકૃતિનો અભ્યાસ -મધ્યકાલીન	Theory	4
	I	CPMJDS CGUJ101A	Major	GDHYKRUTINO ABHYAS – ARVACHIN ગદ્યકૃતિનો અભ્યાસ -અર્વાચીન	Theory	4
	I	CPMIDSCGUJ102	Minor	PDHYKRUTINO ABHYAS- MADHYAKALIN પદ્યકૃતિનો અભ્યાસ -મધ્યકાલીન	Theory	4
	I	CPMDCGUJ103	Multidisciplinary	SAHITYAKRUTI NO ABHYAS- GADHY	Theory	4



				સાહિત્યકૃતિનો અભ્યાસ- ગદ્ય (પ્રશિષ્ટ ગુજરાતી હાસ્યરચનાઓ)		
I	CPAECGUJ104	Ability Enhancement		GADHY ANE VYAVHARIK VYAKARAN ગદ્ય અને વ્યાવહારિક વ્યાકરણ નિયત કૃતિ : 'પ્રિયજન'- વીનેશ અંતાણી	Theory	2
I	CPIKSGUJ105	Indian Knowledge System		BHARTIY GYANPARMPARA -4 ભારતીય જ્ઞાનપરંપરા - ૪ નિયત કૃતિ : 'માધવ ક્યાં નથી-' હરીન્દ્ર દવે	Theory	2
I	CPSECGUJ106	Skilled Based Program		BHASHA SAJJATA ANE LEKHAN KAUSHLY -1 ભાષા સજ્જતા અને લેખન કૌશલ્ય -૧	Theory	2



Gokul Global University, Siddhpur
FACULTY OF ARTS AND HUMANITIES
New Syllabus NEP-2020
4 Year Graduation Program
Session-2023-24



Program :	Bachelor of Arts	Subject / Branch :	GUJARATI
Year :	2023/24 -1 st	Semester :	I
Course title :	Major Course -I PDHYKRUTINO ABHYAS- MADHYAKALIN પદ્યકૃતિનો અભ્યાસ -મધ્યકાલીન	Course code :	CPMJDS CGUJ101
Course type :	Theory	Course credit :	04
Pre-requisite :	Basic knowledge of Gujarati		
Rationale :			

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE	50	100
			50	00		

Course Objective :

૧. વિદ્યાર્થીઓ મધ્યકાલીન ગુજરાતી વિશે જ્ઞાન પ્રાપ્ત કરશે.

૨. વિદ્યાર્થીઓ સુદામાચરિત્ર વિશે પરિચય મેળવશે.



૩. વિદ્યાર્થીઓ ભાષાસજ્જતા વિશે અભ્યાસ કેળવશે.

૪. વિદ્યાર્થી વિરામચિહ્નો વિશે માહિતગાર થશે.

Course Outcome:

૧. મધ્યકાલીન ગુજરાતી સાહિત્યનાં પ્રમુખ સાહિત્ય સ્વરૂપોનો પરિચય મેળવે.

૨. મધ્યકાળના આખ્યાન શિરોમણી પ્રેમાનંદના જીવન અને કવન વિશે જાણે.

૩. જ્ઞાન – ભક્તિ – કર્મનો મહિમા સમજે.

૪. મિત્રપ્રેમ કેવો હોય તે જાણે.

Content

Unit	Description in detail	Credit	Weightage
I	(૧) મધ્યકાળના પ્રમુખ પદ્યપ્રકારો 13- પદ્ય 14- રાસ-રાસો 15- ફાગુ 16- પ્રબંધ 17- આખ્યાન 18- પદ્યવાર્તાનો પ્રાથમિક પરિચય (૨) પાઠ્યકૃતિનું સાહિત્ય સ્વરૂપ (૩) આખ્યાનકવિ પ્રેમાનંદનું જીવન અને કવન (૪) આખ્યાનનો ઉદ્ભવ અને વિકાસ	1	25 %
II	(૧) સાહિત્ય સ્વરૂપને આધારે કૃતિ સમીક્ષા (૨) કૃતિને આધારે સર્જકની વિશેષતાઓ અને મર્યાદાઓ (૩) યુગસંદર્ભે કૃતિનું મૂલ્યાંકન	1	25 %
III	કૃતિ આધારિત ટૂંકનોંધો - વસ્તુસંકલના - પાત્રાલેખનવર્ણનો - રસનિરૂપણ સામાજિક - ભાષાશૈલી વગેરે સંદર્ભ	1	25 %
IV	ભાષા સજ્જતા - વિરામચિહ્નો : - પૂર્ણત્વચિહ્નો : પૂર્ણવિરામ પ્રશ્નવિરામ ઉદ્ગારવિરામ અર્ધવિરામ, - અપૂર્ણત્વચિહ્નો : અલ્પવિરામ ગુરુવિરામ ગુરુરેખા	1	25 %



	- અન્ય ચિહ્નો : લઘુરેખા, લોપચિહ્નો, અવતરણચિહ્નો, વિગ્રહરેખા, કાકપદ, તિર્યકરેખા, કૌંસ. - વિદ્યાર્થીએ વિરામચિહ્નની સંજ્ઞા સક્રિય જણાવી તેનો ઉપયોગ અને ઉદાહરણ આપવાનું રહેશે (આઠમાંથી ગમે તે છ વિશે જવાબ લખવાના રહેશે.)		

Reference Books:

17. ગુજરાતી સાહિત્યનો ઇતિહાસ (મધ્યકાલીન) : અનંતરાય રાવળ
18. ગુજરાતી સાહિત્યની વિકાસરેખા (મધ્યકાલીન) : ધીરુભાઈ ઠાકર (ગુર્જર)
19. મધ્યકાલીન ગુજરાતી સાહિત્યનો ઇતિહાસ : પ્રસાદ બ્રહ્મભટ્ટ (પાશ્વ)
20. આખ્યાન કવિ પ્રેમાનંદ : કે. કા. શાસ્ત્રી (આદર્શ)
21. કવિ શિરોમણી પ્રેમાનંદ : પ્રસાદ બ્રહ્મભટ્ટ (પાશ્વ)
22. ગુજરાતી વ્યાવહારિક વ્યાકરણ : અરવિંદ ભાંડારી (અરુણોદય પ્રકાશન, અમદાવાદ)
23. ગુજરાતી લેખન : નિયતિ અંતાણી (અરુણોદય પ્રકાશન, અમદાવાદ)
24. ગુજરાતી વિષયવસ્તુ : પ્રિ નટુભાઈ રાવલ (નીરવ પ્રકાશન અમદાવાદ)

Suggested Readings:

5. ગુજરાતી સાહિત્યનો ઇતિહાસ (ભાગ : 1-2) ગુજરાતી સાહિત્ય પરિષદ, અમદાવાદ
6. મધ્યકાલીન ગુજરાતી સાહિત્યનો ઇતિહાસ : રમેશ એમ. ત્રિવેદી

Online Resources:

- 7- <http://gujaratisahityaparishad.com/prakashan/navu/2012/madhyakalin-kavyashastra.html>
- 8- <https://gujarativishwakosh.org/>
- 9- www.youtube.com/watch?v=nF5j6q0pszI

Course Outcomes	Expected Mapping with Programme Outcomes (1-Weak Correlation; 2-Medium correlation; 3- Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PSO-1	PSO-2
CO-1	1	-	2	-	-	-	-	-	-	-	-	2
CO-2	-	2	-	-	-	1	-	-	-	1	1	-
CO-3	-	-	1	-	-	-	2	-	2	-	2	-
CO-4	-	-	-	-	3	-	-	1	-	-	-	3



Gokul Global University, Siddhpur

FACULTY OF ARTS AND HUMANITIES

New Syllabus NEP-2020

4 Year Graduation Program

Session-2023-24



Program :	Bachelor of Arts	Subject / Branch :	GUJARATI
Year :	2023/24 – 1 st	Semester :	I
Course title :	Major Course -II GDHYKRUTINO ABHYAS – ARVACHIN ગદ્યકૃતિનો અભ્યાસ -અર્વાચીન	Course code :	CPMJDSCGUJ101A
Course type :	Theory	Course credit :	04
Pre-requisite :	Basic knowledge of Gujarati		
Rationale :			

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE	50	100
			50	00		

Course Objective :

- વિદ્યાર્થીઓ ગુજરાતી ગદ્ય સાહિત્ય વિશે જ્ઞાન પ્રાપ્ત કરશે.
- વિદ્યાર્થીઓ અર્વાચીનયુગના સ્વરૂપો વિશે પરિચય મેળવશે.
- વિદ્યાર્થીઓ ‘કૂવો’ સાહિત્યકૃતિનો અભ્યાસ કરશે.
- વિદ્યાર્થી વિદ્યાર્થીઓ ભાષાસજ્જતા વિશે માહિતી મેળવશે.

Course Outcome:

- અર્વાચીન ગુજરાતી સાહિત્યના પ્રમુખ ગદ્યપ્રકારો વિશે જાણે.
- નવલકથાનાં સ્વરૂપગત લક્ષણોનો પરિચય મેળવે.



૩. ગુજરાતી નવલકથાની ગતિવિધિથી પરિચિત થાય.

૪. ભાષા સજ્જતા પ્રાપ્ત કરે.

Content

Unit	Description in detail	Credit	Weightage
I	(અ) (૧) સામાન્ય પરિચય અર્વાચીન ગુજરાતીના પ્રમુખ ગદ્ય પ્રકારોનો સ્વરૂપલક્ષી પરિચય 1-નવલકથા 2-ટૂંકીવાર્તા 3-એકાંકી 4-લલિત નિબંધ 5- લઘુકથાનો પ્રાથમિક પરિચય (૨) પાઠ્યકૃતિનું સાહિત્ય સ્વરૂપ (૩) સર્જક અશોકપુરી ગોસ્વામીનું જીવન અને સાહિત્યિક પ્રદાન (૪) સર્જકવ્યક્તિત્વનાં ઘડતરબળો.	1	25 %
II	(૧) સ્વરૂપ આધારિત કૃતિ સમિક્ષા (૨) કૃતિને આધારે સર્જકની વિશેષતાઓ અને મર્યાદાઓ. (૩) સાંપ્રત નવલકથા સાહિત્યમાં કૃતિનું સ્થાન	1	25 %
III	ટૂંકનોંધ કૃતિલક્ષી ૧. પરિવેશ ૨. પાત્રનિરૂપણ ૩. સંઘર્ષ ૪. પ્રસંગો ૫. સંવાદો ૬. ગદ્ય વગેરે	1	25 %
IV	ભાષાસજ્જતા ૧. શબ્દસમૂહ માટે એક શબ્દ (નિયત કરેલા શબ્દોમાંથી) ૨. વર્ણભેદે અર્થભેદે (નિયત કરેલા શબ્દોમાંથી)	1	25 %

Reference Books:

૧. નવલકથા : પ્રવીણ દરજી – યુનિ.ગ્રંથનિર્માણ બોર્ડ, અમદાવાદ
૨. સ્વરૂપ સન્નીધાન : સં. સુમન શાહ – પાર્શ્વ
૩. નવલકથા : શિરીષ પંચાલ – અરુણોદય પ્રકાશન, અમદાવાદ
૪. કૂવો- મેઘાણી પરંપરાનું સતત્ય, વિ- વિદ્યાનગર, ફેબ્રુઆરી, ૨૦૦૮, અંક -૨ : ભરત મહેતા
૫. કૂવો – વિશે : પરબ – ઓપ્રિલ, ૧૯૯૮ : પારુલ રાઠોડ
૬. ગ્રામજીવનની સાહોત્તરી ગુજરાતી નવલકથા – ડૉ. કે. એમ. મકવાણા



૭. ભાષા સજ્જતા અને લેખન કૌશલ : યોગેન્દ્ર વ્યાસ - અરુણોદય પ્રકાશન, અમદાવાદ

૮. ગુજરાતી વિષયવસ્તુ : પ્રિ. નટુભાઈ રાવલ – નીરવ પ્રકાશન

Suggested Readings:

૧. નવલકથા – શિલ્પ અને સ્વરૂપ : નરેશ વેદ – પાશ્વ પ્રકાશન, અમદાવાદ

૨. ગુજરાતી શબ્દાર્થકોશ : યોગેન્દ્ર વ્યાસ, અરવિંદ ભાંડારી - અરુણોદય પ્રકાશન, અમદાવાદ

૩. કથાસત્ર : કુમાર જૈમિની શાસ્ત્રી – આદર્શ પ્રકાશન, અમદાવાદ

Online Resources:

૧. <https://gujarativishwakosh.org/>
૨. <https://gujlit.com/book-details.php?bId=174>

Course Outcomes	Expected Mapping with Programme Outcomes (1-Weak Correlation; 2-Medium correlation; 3- Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PSO-1	PSO-2
CO-1	-	1	-	-	-	3	-	-	1	-	-	2
CO-2	-	-	-	-	-	3	-	-	-	2	-	-
CO-3	-	-	2	-	-	-	1	-	-	-	-	-
CO-4	2	-	-	-	1	-	-	2	-	-	1	3



Gokul Global University, Siddhpur



FACULTY OF ARTS AND HUMANITIES

New Syllabus NEP-2020

4 Year Graduation Program

Session-2023-24

Program :	Bachelor of Arts	Subject / Branch :	GUJARATI
Year :	2023/24 -1 st	Semester :	I
Course title :	Minor Course -I PDHYKRUTINO ABHYAS- MADHYAKALIN પદ્યકૃતિનો અભ્યાસ -મધ્યકાલીન	Course code :	CPMIDSCGUJ102
Course type :	Theory	Course credit :	04
Pre-requisite :	Basic knowledge of Gujarati		
Rationale :			

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE	50	100
			50	00		

Course Objective :

- વિદ્યાર્થીઓ મધ્યકાલીન ગુજરાતી વિશે જ્ઞાન પ્રાપ્ત કરશે.
- વિદ્યાર્થીઓ સુદામાચરિત્ર વિશે પરિચય મેળવશે.
- વિદ્યાર્થીઓ ભાષાસજ્જતા વિશે અભ્યાસ કેળવશે.
- વિદ્યાર્થી વિરામચિહ્નો વિશે માહિતગાર થશે.

Course Outcome:

- મધ્યકાલીન ગુજરાતી સાહિત્યનાં પ્રમુખ સાહિત્ય સ્વરૂપોનો પરિચય મેળવે.



૨. મધ્યકાળના આખ્યાન શિરોમાણી પ્રેમાનંદના જીવન અને કવન વિશે જાણે.

૩. જ્ઞાન – ભક્તિ – કર્મનો મહિમા સમજે.

૪. ભાષા અને વ્યાકરણની પાયાની સમાજ કેળવે.

Content

Unit	Description in detail	Credit	Weightage
I	(૧) મધ્યકાળના પ્રમુખ પદ્યપ્રકારો 19- પદ્ય 20- રાસ-રાસો 21- ફાગુ 22- પ્રબંધ 23- આખ્યાન 24- પદ્યવાર્તાનો પ્રાથમિક પરિચય (૨) પાઠ્યકૃતિનું સાહિત્ય સ્વરૂપ (૩) આખ્યાનકવિ પ્રેમાનંદનું જીવન અને કવન (૪) આખ્યાનનો ઉદ્ભવ અને વિકાસ	1	25 %
II	(૧) સાહિત્ય સ્વરૂપને આધારે કૃતિ સમીક્ષા (૨) કૃતિને આધારે સર્જકની વિશેષતાઓ અને મર્યાદાઓ (૩) યુગસંદર્ભે કૃતિનું મૂલ્યાંકન	1	25 %
III	કૃતિ આધારિત ટૂંકનોંધો - વસ્તુસંકલના - પાત્રાલેખનવર્ણનો - રસનિરૂપણ સામાજિક - ભાષાશૈલી વગેરે સંદર્ભ	1	25 %
IV	ભાષા સજ્જતા - વિરામચિહ્નો : - પૂર્ણત્વચિહ્નો : પૂર્ણવિરામ પ્રશ્નવિરામ ઉદ્ગારવિરામ અર્ધવિરામ, - અપૂર્ણત્વચિહ્નો : અલ્પવિરામ ગુરુવિરામ ગુરુરેખા - અન્ય ચિહ્નો : લઘુરેખા, લોપચિહ્નો, અવતરણચિહ્નો, વિગ્રહરેખા, કાકપદ, તિર્યકરેખા, કૌંસ. - વિધાર્થીએ વિરામચિહ્નની સંજ્ઞા સક્રિય જણાવી તેનો ઉપયોગ અને ઉદાહરણ આપવાનું રહેશે (આઠમાંથી ગમે તે છ વિશે જવાબ લખવાના રહેશે.)	1	25 %

Reference Books:

25. ગુજરાતી સાહિત્યનો ઇતિહાસ (મધ્યકાલીન) : અનંતરાય રાવળ



26. ગુજરાતી સાહિત્યની વિકાસરેખા (મધ્યકાલીન) : ધીરુભાઈ ઠાકર (ગુર્જર)
27. મધ્યકાલીન ગુજરાતી સાહિત્યનો ઇતિહાસ : પ્રસાદ બ્રહ્મભટ્ટ (પાશ્વ)
28. આખ્યાન કવિ પ્રેમાનંદ : કે. કા. શાસ્ત્રી (આદર્શ)
29. કવિ શિરોમણી પ્રેમાનંદ : પ્રસાદ બ્રહ્મભટ્ટ (પાશ્વ)
30. ગુજરાતી વ્યાવહારિક વ્યાકરણ : અરવિંદ ભાંડારી (અરુણોદય પ્રકાશન, અમદાવાદ)
31. ગુજરાતી લેખન : નિયતિ અંતાણી (અરુણોદય પ્રકાશન, અમદાવાદ)
32. ગુજરાતી વિષયવસ્તુ : પ્રિ નટુભાઈ રાવલ (નીરવ પ્રકાશન અમદાવાદ)

Suggested Readings:

7. ગુજરાતી સાહિત્યનો ઇતિહાસ (ભાગ : 1-2) ગુજરાતી સાહિત્ય પરિષદ, અમદાવાદ

8. મધ્યકાલીન ગુજરાતી સાહિત્યનો ઇતિહાસ : રમેશ એમ. ત્રિવેદી

Online Resources:

- 10- <http://gujaratisahityaparishad.com/prakashan/navu/2012/madhyakalin-kavyashastra.html>
- 11- <https://gujarativishwakosh.org/>
- 12- www.youtube.com/watch?v=nF5j6q0pszI

Course Outcomes	Expected Mappingwith Programme Outcomes (1-WeakCorrelation; 2-Mediumcorrelation; 3- Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PSO-1	PSO-2
CO-1	1	-	2	-	-	-	-	-	-	-	-	2
CO-2	-	2	-	-	-	1	-	-	-	1	1	
CO-3	-	-	1	-	-	-	2	-	2	-	2	-
CO-4	-	-	-	-	3	-	-	1	-	-	-	3



Gokul Global University, Siddhpur
FACULTY OF ARTS AND HUMANITIES
New Syllabus NEP-2020
4 Year Graduation Program
Session-2023-24



Program :	Bachelor of Arts	Subject / Branch :	GUJARATI
Year :	2022/23	Semester :	I
Course title :	Multidisciplinary -I SAHITYAKRUTI NO ABHYAS- GADHY સાહિત્યકૃતિનો અભ્યાસ- ગદ્ય (પ્રશિષ્ટ ગુજરાતી હાસ્યરચનાઓ)	Course code :	CPMDCGUJ103
Course type :	Theory	Course credit :	04
Pre-requisite :	Basic knowledge of Gujarati		
Rationale :			

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE	50	100
			50	00		

Course Objective :

- વિદ્યાર્થીઓ ગુજરાતી સાહિત્ય વિશે જ્ઞાન પ્રાપ્ત કરશે.
- વિદ્યાર્થીઓ ગુજરાતી હાસ્ય'રચનાઓ વિશે પરિચય મેળવશે.
- વિદ્યાર્થીઓ હાસ્ય સર્જકો વિશે માહિતગાર થશે.
- વિદ્યાર્થીઓ લેખન કૌશલ્ય વિશે સમજ કેળવશે.

Course Outcome:

- હાસ્યરચનાઓ (હાસ્ય નિબંધો) દ્વારા આનંદ) દ્વારા આનંદ મેળવે.
- હાસ્ય નિબંધના સ્વરૂપને સમજે.
- હાસ્ય, કટાક્ષ, વ્યંગ્ય, ઉપહાસ, નર્મ-મર્મ, વિનોદ વગેરે હાસ્યનાં તત્ત્વોને માણે અને સમજે.
- ભાષા સજ્જતા કેળવે.

Content

Unit	Description in detail	Credit	Weightage
I	હાસ્યનિબંધ ક્ષેત્રે નિમ્નસૂચિત સર્જકોના પ્રદાનનો પરિચય ૧. જ્યોતિન્દ્ર દવે. ૨. રમણભાઈ નીલકંઠ ૩. બકુલ ત્રિપાઠી ૪. રતિલાલ બોરીસાગર	1	25 %



	પ. વિનોદ ભટ્ટ દ. તારક મહેતા (પરીક્ષામાં ત્રણમાંથી ગમે તે એક વિશે જવાબ લખવાનો રહેશે.)		
II	સમિક્ષાત્મક પ્રશ્નો - હાસ્યરચનાઓનું સમગ્રલક્ષી મૂલ્યાંકન - મહત્વની ટૂંકનોંધ	1	25 %
III	હાસ્યનિબંધનો આસ્વાદમૂલક પરિચય (ત્રણમાંથી ગમે તે એક)	1	25 %
IV	ભાષાસજ્જતા : - સમાનાર્થી શબ્દો (નિયત કરેલા શબ્દોમાંથી) - વિરુદ્ધથી શબ્દો (નિયત કરેલા શબ્દોમાંથી) (બંને બાર –બાર પૂછાશે નવ –નવના જવાબ લખવાના રહેશે.)	1	25 %

નિમ્નલિખિત હાસ્યરચનાઓ પાઠ્યક્રમમાં નિયત કરવામાં આવે છે.

૧. થોમિયા – રમણભાઈ નીલકંઠ
૨. સાહિત્ય અને અસ્પષ્ટતા – જયોતીન્દ્ર દવે.
૩. શાકુંતલનો ગૂઢાર્થ – રા. વિ. પાઠક
૪. સાહિત્યમાં અપહરણ – બકુલ ત્રિપાઠી
૫. વાંચવા લાવેલું પુસ્તક પાછું ન... – રતિલાલ બોરીસાગર
૬. કવિ ભાસ્કર દવેની શોકસભા – વિનોદ ભટ્ટ
૭. ૨૦૧૦નાં ઊંઘા યશમાં – તારક મહેતા
૮. કેટલાક વાણવખ્યા રિવાજો- મન્નુ શેખચંડલી
૯. શ્વાનસંસદની રાત્રી બેઠક – ઉર્વશી કોઠારી
૧૦. બેસી રહેવાની કળા – કલ્પના દેસાઈ
૧૧. બેગ બાંધ્યાની વેળાએ – સંજય છેલ

Reference Books:

૧. ગુજરાતી હાસ્યધારા – સં. વિનોદ ભટ્ટ
૨. અર્વાચીન ગુજરાતી સાહિત્યની વિકાસરેખા – ધીરુભાઈ ઠાકર
૩. વિનોદ વિમર્શ
૪. નિબંધ : સ્વરૂપ અને વિકાસ – પ્રવિણ દરજી
૫. નિબંધ અને ગુજરાતી સાહિત્યનો આસ્વાદ – મધુસુધન પારેખ
૬. ગુજરાતીમાં હાસ્ય અને કટાક્ષ - મધુસુધન પારેખ

Suggested Readings:



૧. હાસ્યમંદિર – રમણભાઈ નીલકંઠ
૨. હળવા નિબંધનું સાહિત્ય - મધુસુધન પારેખ

Online Resources:

૧. <https://www.bookpratha.com/bookdetail/Index/289131?name=Prashisht-Gujarati-Hasyarachanao>
૨. <https://www.bookpratha.com/bookdetail/Index/133281?name=Shreshth-Hasyarachanao-Jyotindra-Dave>

Course Outcomes	Expected Mappingwith Programme Outcomes (1-WeakCorrelation; 2-Mediumcorrelation; 3- Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PSO-1	PSO-2
CO-1	-	1	-	1	-	3	-	-	1	-	-	-
CO-2	-	2	-	-	-	3	-	-	-	2	-	-
CO-3	-	-	2	-	-	-	1	-	-	-	2	-
CO-4	1	-	-	-	2	-	-	3	-	-	-	3



Gokul Global University, Siddhpur
FACULTY OF ARTS AND HUMANITIES
New Syllabus NEP-2020
4 Year Graduation Program
Session-2023-24



Program :	Bachelor of Arts	Subject / Branch :	GUJARATI
Year :	2022/23	Semester :	I
Course title :	AEC GADHY ANE VYAVHARIK VYAKARAN ગદ્ય અને વ્યાવહારિક વ્યાકરણ નિયત કૃતિ : 'પ્રિયજન'- વીનેશ અંતાણી	Course code :	CPAECGUJ104
Course type :	Theory	Course credit :	02
Pre-requisite :	Basic knowledge of Gujarati		
Rationale :			

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme		
Lecture	Tutorial	Practical	Internal	External	Total



2	0	0	Mid 25	CE 00	25	50

Course Objective :

૧. વિદ્યાર્થીઓ ગદ્ય વિશે જ્ઞાન પ્રાપ્ત કરશે.
૨. વિદ્યાર્થીઓ વ્યાવહારિક વ્યાકરણ વિશે પરિચય મેળવશે.
૩. વિદ્યાર્થીઓ પ્રિયજન કૃતિ વિશે સમજ કેળવશે.
૪. વિદ્યાર્થીઓ ભાષા સજ્જતા વિશે માહિતગાર થશે.

Course Outcome:

૧. નવલકથાની સ્વરૂપગત લાક્ષણિકતાઓથી પરિચિત થાય.
૨. નવલકથા અને ઐતિહાસિક નવલકથાનો ભેદ સમજે.
૩. વ્યાવહારિક વ્યાકરણમાં સજ્જતા પ્રાપ્ત કરે.
૪. સ્પર્ધાત્મક પરીક્ષાઓ માટે સક્ષમ બને.

Content

Unit	Description in detail	Credit	Weightage
I	૧. નિયત કૃતિ (પ્રિયજન) ની આસ્વાદમૂલક સમિક્ષા ૨. કૃતિ આધારિત ટૂંકનોંધો	1	35 %
II	ગદ્યાર્થ ગ્રહણ - વિદ્યાર્થીએ ગદ્યખંડ વાંચીને તેની નીચે પૂછેલા પ્રશ્નોના જવાબ લખવાના રહેશે. - એકબીજાના વિકલ્પે પ્રશ્ન પૂછાશે.	0.5	35 %
III	નિપાત અને તેના પ્રકાર 1) ભારવાચક 2) સીમાવાચક 3) વિનયવાચક 4) પ્રકીર્ણ/લટકણિયાંરૂપ	0.5	30 %

Reference Books:

૧. ગુજરાતી નવલકથા – રઘુવીર ચૌધરી
૨. નવલકથા : શિલ્પ અને સ્વરૂપ : નરેશ વેદ



૩. ગુજરાતી કથાવિશ્વ : બાબુ દાવલપુરા
૪. ભાષા પરિચય અને ગુજરાતી ભાષાનું સ્વરૂપ : જયંત કોઠારી
૫. ગુજરાતી વ્યાવહારિક વ્યાકરણ : અરવિંદ ભાંડારી

Suggested Readings:

૧. ગુજરાતી વિષયવસ્તુ : પ્રિ. નટુભાઈ રાવલ
૨. કથાસર્જક વીનેશ અંતાણી : એક અભ્યાસ (શોધનિબંધ) – ડૉ. ચંદ્રેશ બારોટ

Online Resources:

૧. https://gcert.gujarat.gov.in/gcert/Portal/2017/PDF/swavadhyan/Std-8_Gujarati_sem%201.pdf
૨. <https://gujarativishwakosh.org/>

Course Outcomes	Expected Mappingwith Programme Outcomes (1-WeakCorrelation; 2-Mediumcorrelation; 3- Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PSO-1	PSO-2
CO-1	-	1	-	2	-	3	-	-	1	-	-	-
CO-2	-	-	-	-	-	-	3	-	-	2	-	-
CO-3	-	-	2	-	2	-	-	-	-	-	3	-
CO-4	1	-	-	-	-	-	-	1	-	-	-	3



Gokul Global University, Siddhpur **FACULTY OF ARTS AND HUMANITIES**

New Syllabus NEP-2020
4 Year Graduation Program
Session-2023-24



Program :	Bachelor of Arts	Subject / Branch :	GUJARATI
Year :	2022/23	Semester :	I
Course title :	IKS BHARTIY GHYNPARMPRA ભારતીય જ્ઞાનપરંપરા – ૪ નિયત કૃતિ ' :માધવ ક્યાં નથી- ' હરીન્દ્ર દવે	Course code :	CPIKSGUJ105
Course type :	Theory	Course credit :	02
Pre-requisite :	Basic knowledge of Gujarati		
Rationale :			

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
2	0	0	Mid	CE	25	50
			25	00		

Course Objective :

૧. વિદ્યાર્થીઓ ભારતીય જ્ઞાનપરંપરાનું જ્ઞાન પ્રાપ્ત કરશે.
૨. વિદ્યાર્થીઓ શ્રીમદ્ભાગવત વિશે પરિચય મેળવશે.
૩. વિદ્યાર્થીઓ 'માધવ ક્યાં નથી' નવલકથા વિશે માહિતી મેળવશે.
૪. વિદ્યાર્થીઓ સાહિત્યમાં ભારતીયતા વિશે માહિતગાર થશે.

Course Outcome:

૧. ભારતીય સંસ્કૃતિના જ્ઞાન વારસાથી પરિચિત થાય.
૨. નવલકથા સ્વરૂપમાં નિરુપિત શ્રીકૃષ્ણના ચરિત્રને જાણે.
૩. શ્રીકૃષ્ણ ચરિત્ર આલેખતા શ્રીમદ્ભાગવત જેવા ગ્રંથો તથા અન્ય કૃષ્ણ ચરિત્ર વિષયક નવલકથાઓ વાંચવા પ્રેરાય.
૪. વિદ્યાર્થીઓ સાહિત્યમાં ભારતીયતાના ભેદ સમજે.

Content



Unit	Description in detail	Credit	Weightage
I	૧. સર્જક હરીન્દ્ર દેવેના જીવન અને કવન વિશે. ૨. સર્જકનું સાહિત્યિક પ્રદાન વિશે.	1	35%
II	૨. સર્જકનું સાહિત્યિક પ્રદાન વિશે.	0.5	35 %
III	નિયત કૃતિનો આસ્વાદમૂલક પરિચય ૧. 'માધવ ક્યાં નથી' નવલકથાનો પરિચય. - માધવ ક્યાં નથી ' હરીન્દ્ર દેવેની નવલકથામાં કૃષ્ણ જન્મથી લઈને દેહવિલય સુધીના કૃષ્ણ જીવન અને નારદ કૃષ્ણ પ્રત્યેની ભક્તિનું ભાવનાત્મક વર્ણન જોવા મળે છે. ૧. દેવકીનું આઠમું સંતાન ૨. મને કહો ! ૩. યમુનાના ખોળેથી...! ૪. વૃંદાવનની વાટ સામે પડી છે !!! ૫. કૃષ્ણ અહીં જ છે, નંદા !! ૬. કૃષ્ણ આવે છે !! ૭. જરાસંઘ આવે છે !! ૮. એક મન હતું, તે ગયું !! ૯. કૃષ્ણ અહીં નથી !! ૧૦. ત્રિવકાના ભવનમાં કૃષ્ણ ... ૧૧. જરાસંઘની રાજસભામાં અંકૂર ૧૨. જોઈએ, કૃષ્ણ કોને મળે છે ? ૧૩. આ શોધ શા માટે ? ૧૪. ડુંગરે દવ લાગ્યો ૧૫. લોકોત્તર વાણી ૧૬. કૃષ્ણની વિરુદ્ધ દિશામાં ૧૭. 'એ અધર્મી કૃષ્ણે કહેજો...' ૧૮. 'ગોવિંદ... ગોવિંદ...! ૧૯. 'પણ ક્યારે ?' ૨૦. સત્યનો પક્ષ કયો ?	05	30 %



૨૧. કોની જીત ?		
૨૨. 'મારે યુદ્ધ નથી કરવું'		
૨૩. 'દેવર્ષિઓમાં હું નારદ છું!'		
૨૪. 'વીરત્વનું વરદાન'		
૨૫. 'કૃષ્ણનો અવાજ'		
૨૬. '...તો આ બાળક સજીવન થાઓ!'		

Reference Books:

૧. ગુજરાતી નવલકથા : રઘુવીર ચૌધરી
૨. નવલકથા : પ્રવીણ દરજી, યુનિવર્સિટી ગ્રંથનિર્માણ બોર્ડ – અમદાવાદ
૩. નવલકથા : શિરીષ પંચાલ, અરુણોદય પ્રકાશન – અમદાવાદ
૪. કથાવિશ્વ : બાબુ દાવલપુરા અને નરેશ વેદ, પાર્શ્વ પબ્લિકેશન – અમદાવાદ
૫. ગુજરાતી સાહિત્યનો ઇતિહાસ, ગુજરાતી સાહિત્ય પરિષદ – અમદાવાદ

Suggested Readings:

૧. માધવ ક્યાંય નથી (આસ્વાદ અને અવબોધ), આદર્શ પ્રકાશન – અમદાવાદ
૨. હરીન્દ્ર દવેની સાહિત્યસિધ્ધિ : અંજની મહેતા, આદર્શ પ્રકાશન – અમદાવાદ

Online Resources:

- ૧- <https://www.sahityasetu.co.in/issue33/aarti.php>
૨. <https://ekatra.pressbooks.pub/kavyasvado>



Course Outcomes	Expected Mapping with Programme Outcomes (1-Weak Correlation; 2-Medium correlation; 3- Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PSO-1	PSO-2
CO-1	-	1	-	-	1	3	-	1	-	-	-	-
CO-2	2	-	-	-	-	-	-	-	-	2	-	-
CO-3	-	-	2	-	-	-	1	-	-	-	2	-
CO-4	-	-	-	3	-	-	-	-	1	-	-	3



Gokul Global University, Siddhpur
FACULTY OF ARTS AND HUMANITIES
New Syllabus NEP-2020
4 Year Graduation Program
Session-2023-24



Program :	Bachelor of Arts	Subject / Branch :	GUJARATI
Year :	2022/23	Semester :	I
Course title :	ભાષા સજ્જતા અને લેખન કૌશલ્ય -૧	Course code :	CPSECGUJ106
Course type :	Theory	Course credit :	02
Pre-requisite :	Basic knowledge of Gujarati		
Rationale :			

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
3	0	0	Mid	CE	25	50
			25			

Course Objective :

- વિદ્યાર્થીઓ ભાષા સજ્જતા વિશે જ્ઞાન પ્રાપ્ત કરશે.
- વિદ્યાર્થીઓ સાંપ્રત નિબંધો વિશે પરિચય મેળવશે.
- વિદ્યાર્થીઓ જોડણી વિશે સમજ કેળવશે.



૪. વિધાર્થીઓ રૂઢીપ્રયોગો વિશે સમજ કેળવશે.

Course Outcome:

૧. માતૃભાષા સાથે નિસબત કેળવે
૨. લેખન કૌશલ્ય વિકસાવે.
૩. ગુજરાતી ભાષાના વ્યવહારિક લેખન તરફ અભિમુખ બને.
૪. સ્પર્ધાત્મક પરીક્ષાઓ માટે સક્ષમ બને.

Content

Unit	Description in detail	Credit	Weightage
I	સાંપ્રત નિબંધો (ચારમાંથી એક) - નિબંધના વિષયોનું ફલક આ પ્રમાણે રહેશે. ૧. કુદરતી આફતો- હોનારત ૨. પ્રકૃતિસૌદર્ય ૩. શિક્ષણવિષયક ૪. વર્તમાન સમસ્યાઓ ૫. કાલ્પનિક	1	35 %
II	જોડણીશુદ્ધિ - નિયત કરેલા શબ્દોમાંથી વીસ શબ્દો પૂછાશે. કોઈ પણ સત્તર શબ્દોની સાચી જોડણી લખવાની રહેશે.	0.5	35 %
III	રૂઢીપ્રયોગો - નિયત કરેલા રૂઢીપ્રયોગોમાંથી બાર પૂછાશે. કોઈ પણ નાવના અર્થ લખી તેનો વાક્યમાં પ્રયોગ કરવાનો રહેશે.	0.5	30 %

Reference Books:

૧. ભાષા સજ્જતા અને લેખન કૌશલ્ય : ડૉ. યોગેન્દ્ર વ્યાસ- પાર્શ્વ પબ્લીકેશન . અમદાવાદ
૨. સાહિત્યાયન : બાબુ દાવલપુરા, પાર્શ્વ પબ્લીકેશન . અમદાવાદ
૩. ગુજરાતી શબ્દાર્થકોશ : યોગેન્દ્ર વ્યાસ – અરુણોદય પ્રકાશન
૪. સાર્થ ગુજરાતી જોડણીકોશ : ગુજરાત વિદ્યાપીઠ
૫. ગુજરાતીનું વિષયવસ્તુ : નટુભાઈ રાવલ – નીરવ પ્રકાશન
૬. રૂઢીપ્રયોગો, કહેવતો અને છંદ- અંલકાર : પ્રસાદ બ્રહ્મભટ્ટ : પાર્શ્વ પબ્લીકેશન . અમદાવાદ
૭. અપઠિત, લેખન કૌશલ્ય અને પરિશીલન : નીતિન વડગામ
૮. વિદ્યાર્થી જોડણીકોશ : સં. કનૈયાલાલ જોશી – કુસુમ પ્રકાશન

Suggested Readings:

૧. વ્યવહારભાષા, અરજીલેખન અને પત્રલેખન : પ્રસાદ બ્રહ્મભટ્ટ
૨. ગુજરાતી વ્યાવહારિક વ્યાકરણ : અરવિંદ ભાંડારી - અરુણોદય પ્રકાશન



૩. ગુજરાતી લેખન : નિયતી અંતાણી - અરુણોદય પ્રકાશન

Online Resources:

૧. www.youtube.com/watch?v=uUZb6EmCyH0
૨. www.youtube.com/watch?v=ur7UC-wG3Fg

Course Outcomes	Expected Mapping with Programme Outcomes (1-Weak Correlation; 2-Medium correlation; 3- Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PSO-1	PSO-2
CO-1	-	1	-	3	-	-	-	1	1	-	-	-
CO-2	-	-	-	-	-	3	-	-	-	2	-	-
CO-3	-	-	2	-	-	-	1	-	-	-	3	-
CO-4	1	-	-	-	3	-	-	-	-	-	-	3



**GOKUL
GLOBAL
UNIVERSITY**

Approved By Govt. of Gujarat
(Recognized by UGC under Section 22 & 2(f) of 1956)
(Gujarat Private State University Act 4 of 2018)



**GOKUL
GLOBAL
UNIVERSITY**

GOKUL GLOBAL UNIVERSITY, SIDHPUR

DSC-MAJOR COURSE IN HISTORY

For
ARTS (B.A) PROGRAMME

SEMESTER SYSTEM
SCHEME OF EXAMINATION AND SYLLABUS

AS PER THE NEW NEP -2020 GUIDELINES



Year	Sem	Paper/Course Code	Major /Minor/Multidisciplinary/	Proposed Title of Papers	Theory/ Practical	Credits
B.A 1	Sem1	CPMJDSCHIS101	Major	Idea Of Bharat	Theory	4
	Sem1	CPMJDSCHIS101A	Major	History Of Early World Civilization	Theory	4
	Sem1	CPMIDSCHIS102	Minor	Idea Of Bharat	Theory	4
	Sem1	CPMDCHIS103	Multidisciplinary	Cultural Heritage Of Gujarat	Theory	4
	Sem1	CPIKSHIS105	Indian Knowledge System	Human Right	Theory	2
	Sem1	CPSECHIS106	Skilled Based Program	Tourism – A Study	Theory	2
Year	Sem	Paper/Course Code	Major /Minor/Multidisciplinary/	Proposed Title of Papers	Theory/ Practical	Credits
B.A 2	Sem2	CPMJDSCHIS201	Major	HISTORY OF INDIA (From Earliest Time To 550 Ce)	Theory	4
	Sem2	CPMJDSCHIS201A	Major	HISTORY OF EUROP FROM 13 TH CENTURY TO 1789	Theory	4
	Sem2	CPMIDSCHIS202	Minor	HISTORY OF INDIA (From Earliest Time To 550 Ce)	Theory	4
	Sem2	CPMDCHIS203	Multidisciplinary	Major Revolutions of Modern World	Theory	4
	Sem2	CPIKSHIS205	Indian Knowledge System	GANDHIAN EDUCATION	Theory	2
	Sem2	CPSECHIS206	Skilled Based Program	Historical & Cultural Legacy of Ancient Gujarat	Theory	2

B. A. HISTORY

Details of Programmes Outcomes (PO), Programmes Specific Outcomes (PSO) &

PO 1	Critical thinking skills: Graduates will be able to analyze complex information, evaluate arguments, and think critically to solve problems.

Course Outcomes (CO)



P0 2	~~Effective communication:~~ Graduates will demonstrate proficiency in written and oral communication skills, including the ability to express ideas clearly and persuasively.	Approved By Govt. of Gujarat (Recognized by UGC under Section 22 & 2(f) of 1956) (Gujarat Private State University Act 4 of 2018)
P0 3	Research skills: Graduates will be able to conduct independent research, gather relevant data, and analyze information to support their arguments.	
P0 4	Cultural awareness: Graduates will have a deep understanding of diverse cultures, perspectives, and traditions, fostering empathy and appreciation for cultural differences.	
P0 5	Ethical reasoning: Graduates will develop ethical reasoning skills and demonstrate an understanding of ethical issues within their field of study.	
P0 6	Creative thinking: Graduates will be able to think creatively, generate innovative ideas, and apply artistic principles to their work.	
PO 7	Collaboration and teamwork: Graduates will possess the ability to work effectively in teams, demonstrating leadership skills and contributing to collective goals.	
PO 8	Global perspective: Graduates will have an awareness of global issues and their impact, recognizing the interconnectedness of the world.	
PO 9	Adaptability and flexibility: Graduates will be able to adapt to changing environments, learn new skills, and embrace lifelong learning.	
PO 10	Problem-solving skills: Graduates will be equipped with the skills to identify problems, propose solutions, and make informed decisions.	



Gokul Global Univesity, Siddhpur.

FACULTY OF ARTS, HUMANITIES & SOCIAL SCIENCE, SIDHPUR



New Syllabus NEP-2020 4th Year Graduation Programme Session-2023-24

Program : BACHLAOR OF ARTS		Subject / Branch
:HISTORY		
Year : 2023-24		Semester :1
Course title :	Idea of bharat	Course code :CPMJDSCHIS101
Course type :	THEORY	Course credit :04
Pre-requisite : Basic Knowledge of historical method		
Rationale :		

Teaching Examination Scheme :

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4		0	Mid	CE	50	100
			25	25		

Course Objective :



1. Students will learn about the history of ancient India
2. Will get knowledge of Indian culture
3. Will get knowledge different religions of India
4. Students will get help in competitive exams

Programme Outcome:

1. Knowledge of our history and heritage through which significant development in the history of the Indian sub continent from earliest.
2. Respect for national ethic, human values and ideals constitutional values.

Course Outcome :

1. Students will acquire knowledge regarding the primitive life
2. They can gather knowledge about the society, culture, religion and political history of ancient India.
3. Students learned about the pre history
4. Students can Such a problem and solution

Content

Unit	Description in detail	Credit	Weightage
I	1. Unit-1 : Concept of Bharatvarsh : • Understanding of Bharatvarsh • The Glory of Indian Literature: Ved, Vedanga, Upanishads, Smriti, Puranas. • Jain and Buddhist Literature.	1	25 %
II	2. Unit-2 : Indian knowledge tradition, art and culture. • Evolution of language and script: Brahmi, Kharoshti, Prakrit, Pali, Sanskrit. • Salient features of Indian Arts and culture • Indian educational system.	1	25 %
III	3. Unit-3 : Dharma, Philosophy and Vasudhaiva Kutumbakam • Indian perception of Dharma and Darshan. • The concept of vasudhaiva Kutumbakam : Man, Family, Society and World. • The concept of Janpada and Gram swarajya.	1	25 %
IV	4. Unit-4 : Science, environment, medical science and Indian economics traditions. • Science and technology in ancient India. • Health consciousness : Ayurveda, Yoga and Naturopathy. • Indian Economic thoughts.	1	25 %



Reference Books:

1. A.S. Altekar, Education in Ancient India, Nand Kishors & Bros. Varasani, 1944.
2. Bhagvadt : Brahad Bharat Ka Itihas, Pranav Prakashan, New Delhi
3. Narendra Mohan : Bharatiya Sanskruti, Prabhat Prakashan, Delhi 2005
4. Satish Chandra Mittal : Bharatiya Sanskruti ke char adhyay, akhil bharatiya itihas sankalan yojana, Delhi 2018
5. R.K. Shrivastava : Prachin Bharat ka Itihas tatha Sanskruti
6. ડૉ. હરિપ્રસાદ શાસ્ત્રી – પ્રાચીન ભારતનો ઇતિહાસ – ભાગ -૧, ભાગ-૨, યુનિ. ગ્રંથ નિર્માણ બોર્ડ.

Suggested Readings :

1. History of Gujarat
2. History of Guj. Kingdom

Practical / Activities :

1. Discus, project work
2. Assignment
3. Class test

Course Outcome s	Expected Mapping with Programme Outcomes (1-Weak Correlation; 2-Medium correlation; 3- Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	POS-1	POS-2
CO-1	1			3	1					2		
CO-2	2											
CO-3	2										3	
CO-4	3						3					2



Gokul Global Univesity, Siddhpur.

FACULTY OF ARTS,HUMANITIES & SOCIAL SCIENCE , SIDHPUR

New Syllabus NEP-2020 4th Year Graduation Programme Session-2023-24



Program : BACHLAOR OF ARTS		Subject / Branch
:HISTORY		
Year : 2023-24		Semester :1
Course title :	History of Early World Civilization	Course code :CPMJDSCHIS101A
Course type :	THEORY	
		Course credit :04
Pre-requisite : Basic Knowledge of historical method		
Rationale :		

Teaching Examination Scheme :

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE	50	100
			25	25		

Course Objective :

1. Students will learn about the history of ancient India
2. Will get knowledge, idea of indo civilization
3. Will get knowledge different religions of India
4. Students will get help in competitive exams

Programme Outcome:

1. Tolerance a basic narrative of historical events in a specific region of the world in a specific time frame.
2. To Understand & evaluate different historical ideas, various arguments and point of view.
3. To develop an appreciation of themselves & of other through the study of the past in local, regional, national and global context.

Course Outcome:

1. Students will acquire knowledge about the evolutionof human society and transformation of ancient civilization.
2. They can gather knowledge about the origin, features, nature and class composition of various societies.
3. They can compare to each and other among the several societies of the world.



4. Students can Such a problem and solution

Content

Unit	Description in detail	Credit	Weightage
I	Unit-1 : History of Early World Civilization: • Egyptian Civilization : development of art, architecture and religion. • Mesopotamia Civilization : Sumerian, Babylonian, and Assyrian : Society, religion, Law, architecture, administration and education. • Persian Civilization : Social and Economic condition.	1	25 %
II	Unit-2 : Classical Greece. • Homer Age: Evolution of classical Greece. • Greece : Persian war and the Peloponnesian war • The Periclean Age in Greece, Growth of State and society development of science, art and philosophy.	1	25 %
III	Unit-3 : Roman Empire – Rise of Christianity. • Rise and evolution : Roman Republic and Roman Law. • Imperial age in Rome. • Rise, establishment growth of christianity	1	25 %
IV	Unit-4 : Rise of Islam - Early Medieval Europe. • Birth and expansion of Islam and its impact. • Crusader and their impact on Europe. • Religion and society in pre-medieval Europe.	1	25 %

Reference Books:

7. A.S. Altekar, Education in Ancient India, Nand Kishors & Bros. Varasani, 1944.
8. Bhagvadt : Brahad Bharat Ka Itihas, Pranav Prakashan, New Delhi
9. Narendra Mohan : Bharatiya Sanskruti, Prabhat Prakashan, Delhi 2005
10. Satish Chandra Mittal : Bharatiya Sanskruti ke char adhyay, akhil bharatiya itihas sankalan yojana, Delhi 2018
11. R.K. Shrivastava : Prachin Bharat ka Itihas tatha Sanskruti
12. ડૉ. હરિપ્રસાદ શાસ્ત્રી – પ્રાચીન ભારતનો ઇતિહાસ – ભાગ -૧, ભાગ-૨, યુનિ. ગ્રંથ નિર્માણ બોર્ડ.

Suggested Readings :

1. History of Gujarat
2. History of Guj. Kingdom

Online Resources :



- 1.
- 2.

Practical / Activities :

4. Discus, project work
5. Assignment
6. Class test

Course Outcomes	Expected Mapping with Programme Outcomes (1-Weak Correlation; 2-Medium correlation; 3-Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	POS-1	POS-2
CO-1	1			3	1					2		
CO-2	2											
CO-3	2										3	
CO-4	3						3					2



Gokul Global University, Siddhpur.

FACULTY OF ARTS, HUMANITIES & SOCIAL SCIENCE, SIDHPUR



New Syllabus NEP-2020 4th Year Graduation Programme Session-2023-24

Program : BACHLAOR OF ARTS						Subject / Branch					
:HISTORY											
Year : 2023-24						Semester :1					
Course title :		Idea of bharat (MINOR)				Course code					
Course type :		THEORY				:CPMIDSCHIST102					



		Course credit :04
Pre-requisite : Basic Knowledge of historical method		
Rationale :		

Teaching Examination Scheme :

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	4	0	Mid	CE	50	100
			25	25		

Course Objective :

1. Students will learn about the history of ancient India
2. Will get knowledge of Indian culture
3. Will get knowledge, idea of indo civilization
4. Will get knowledge different religions of India
5. Students will get help in competitive exams

Programme Outcome:

3. Knowledge of our history and heritage through which significant development in the history of the Indian sub continent from earliest.
4. Respect for national ethic, human values and ideals constitutional values.

Course Outcome :

1. Students will acquire knowledge regarding the primitive life
2. They can gather knowledge about the society, culture, religion and political history of ancient India.
3. Students learned about the pre history
4. Students can Such a problem and solution

Content

Unit	Description in detail	Credit	Weightage
I	5. Unit-1 : Concept of Bharatvarsh : • Understanding of Bharatvarsh • The Glory of Indian Literature: Ved, Vedanga, Upanishads, Smriti, Puranas. • Jain and Buddhist Literature.	1	25 %
II	6. Unit-2 : Indian knowledge tradition, art and culture. • Evolution of language and script: Brahmi, Kharoshti, Prakrit, Pali, Sanskrit. • Salient features of Indian Arts and culture • Indian educational system.	1	25 %
III	7. Unit-3 : Dharma, Philosophy and Vasudhaiva	1	25 %



	Kutumbakam - Indian perception of Dharma and Darshan. - The concept of vasudhaiva Kutumbakam : Man, Family, Society and World. - The concept of Janpada and Gram swarajya.		
IV	8. Unit-4 : Science, environment, medical science and Indian economics traditions. - Science and technology in ancient India. - Health consciousness : Ayurveda, Yoga and Naturopathy. - Indian Economic thoughts.	1	25 %

Reference Books:

13. A.S. Altekar, Education in Ancient India, Nand Kishors & Bros. Varasani, 1944.
14. Bhagvadt : Brahad Bharat Ka Itihas, Pranav Prakashan, New Delhi
15. Narendra Mohan : Bharatiya Sanskruti, Prabhat Prakashan, Delhi 2005
16. Satish Chandra Mittal : Bharatiya Sanskruti ke char adhyay, akhil bharatiya itihas sankalan yojana, Delhi 2018
17. R.K. Shrivastava : Prachin Bharat ka Itihas tatha Sanskruti
18. ડૉ. હરિપ્રસાદ શાસ્ત્રી – પ્રાચીન ભારતનો ઇતિહાસ – ભાગ -૧, ભાગ-૨, યુનિ. ગ્રંથ નિર્માણ બોર્ડ.

Suggested Readings :

1. History of Gujarat
2. History of Guj. Kingdom

Practical / Activities :

7. Discus, project work
8. Assignment
9. Class test

Course Outcomes	Expected Mapping with Programme Outcomes (1-Weak Correlation; 2-Medium correlation; 3-Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	POS-1	POS-2
CO-1	1			3	1					2		
CO-2	2											
CO-3	2										3	
CO-4	3						3					2



Gokul Global University, Siddhpur

Faculty of Arts, Humanities & Social Science New Syllabus NEP-2020 4 th Year Graduation Programme Session-2023-24



Program :	Bachelor of Arts	Subject / Branch :	HISTORY
Year :	2023/24	Semester :	I
Course :	Multidisciplinary		
Course title :	CULTURAL HERITAGE OF GUJARAT	Course code :	CPMDCHIS103
Course type :	Theory	Course credit :	04
Pre-requisite :			
Rationale :			

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE		
			25	25	50	100

Course Objective :

1. Students will learn about the history of ancient India
2. Will get knowledge of Indian culture
3. Will get knowledge, idea of indo civilization
4. Will get knowledge different religions of India
5. Students will get help in competitive exams

Course Outcome:

- (i) Students learned about the pre history
- (ii) To be Evaluate the factors affecting behavior



- (iii) To Understand about Vedic culture in India
(iv) Students can Such a problem and solution

Content

Unit		Credit	Weightage
I	Cultural Heritage and its importance Importance of guttural Heritage in difference Sectors from Indian Perspective Cultural Heritage of Gujarat- An Overview	1	25 %
II	Folk dance of Gujarat giving an overview of the folk life Gujarat's indoor fairs, lakes, ponds, artistic gardens Drama of Gujarat as well as important Dramatists	1	25 %
III	Gujarati music and famous musicians Painting of Gujarat as well as famous painter Sculptures architecture of Gujarat as well as famous architects	1	25 %
IV	The Chief poet of Gujarati literature-Contribution of writers Literary Institution of writers	1	25 %

Reference Books:

1. SWARNIM GUJARAT – 2010 DR. KALYANSINH CHAMPAVAT
2. MADHYLAKIN GUJARATI SAHITYA VARSO
3. VISHV PRASIDDH MAHILAO – RAJENDR DAVE , PRAVIN BOOKS STORE
4. GUJARATNI ASMITA – RAJANI VYAS

Suggested Readings:

1. GUJARATNI ASMITA – RAJANI VYAS

Course Outcomes	Expected Mapping with Programme Outcomes (1-Weak Correlation; 2-Medium correlation; 3-Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	POS-1	POS-2
CO-1	1			3	1					2		
CO-2	2											
CO-3	2										3	
CO-4	3						3					2



Gokul Global Univesity, Siddhpur.

FACULTY OF ARTS,HUMANITIES & SOCIAL SCIENCE , SIDHPUR



New Syllabus NEP-2020 4th Year Graduation Programme Session-2023-24

Program : BACHLAOR OF ARTS		Subject / Branch
:HISTORY		
Year : 2023-24		Semester :1
Course title :	HUMAN RIGHT (value and course)	Course code : CPIKSHIS105
Course type :	THEORY	
		Course credit :04
Pre-requisite : Basic Knowledge of historical method		
Rationale :		

Teaching Examination Scheme :

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
2	2	0	Mid	CE	25	50
			25			

Course Objective :

1. Students will learn about the history of ancient India
2. Will get knowledge of Indian culture
3. Will get knowledge, idea of indo civilization
4. Will get knowledge different religions of India
5. Students will get help in competitive exams

Programme Outcome:

1. Knowledge of our history and heritage through which significant development in the history of the Indian sub continent from earliest.
2. Respect for national ethic, human values and ideals constitutional values.

Course Outcome :

1. Students will acquire knowledge regarding the primitive life
2. They can gather knowledge about the society, culture, religion and political history of ancient India.
3. To be Evaluate the factors affecting behavior
4. Students can Such a problem and solution



Content

Unit	Description in detail	Credit	Weightage
I	Unit-1 : Concept of Human Rights Historical Development of Human Rights Introduction and Nature of Human Rights	0.5	25 %
II	Unit-2 : International Conversation on Civil and Political Rights Relevant Provision of the Constitution The United Nations and Human Rights Human Rights committee	0.5	25 %
III	Unit-4 : Human Rights of Woman Human Rights of Children Human Rights of Minorities Human Rights of Dalits Human Rights of Prisoners Human Rights of Disabled	1	25 %

Reference Books:

1 Human Rights – C.Jamnadas & Co.

2 Human Rights in Indian – G.S.Bajewa (Anmol Publication)

Suggested Readings :

1. Human Rights – C.Jamnadas & Co.

Practical / Activities :

1. Discus, project work
2. Assignment
3. Class test

Course Outcome s	Expected Mapping with Programme Outcomes (1-Weak Correlation; 2-Medium correlation; 3-Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	POS-1	POS-2
CO-1	1			3	1					2		
CO-2	2											
CO-3	2										3	
CO-4	3						3					2

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Gokul Global University, Siddhpur.

Faculty of Arts and humanities

New Syllabus NEP-2020

4th Year Graduation Programme





Session-2023-24

Program :	Bachelor of Arts	Subject / Branch :	Skill Enhancement Course
Year :	2023-24	Semester :	I
Course title :	TOURISM – A STUDY	Course code :	Code :CPSECHIS106
Course type :	Theory	Course credit :	02
Pre-requisite :	Basic Knowledge of TOURISM – A STUDY		
Rationale :			

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4			Mid	CE	25	50
			25			

Course Objective:-

1. Human beings have been interested in ecology since the beginning of civilization.
2. Even our ancient scriptures have emphasized about practices and values of environmental conservation.
3. It is now even more critical than ever before for mankind as a whole to have a clear understanding of environmental concerns and to follow sustainable development practices.
4. Students will get help in competitive exams

Course Outcome:

1. Students learned about the world history
2. To be Evaluate the factors affecting behavior
3. To Understand about Revolution
4. Students can Such a problem and solution

Unit	Description in detail	Hours	Weightage
I	Concept of Tourism and its Various definition" Nature and Type of Tourism Evolution of Tourism in India-from Earliest times	8	30%



	2000A.D		
II	Tourism organization - International,National, and Private Sectors Tourism Services and Operational Mode of Transport and and Tourism Accommodation Role of Media in Tourism Development: Type, Research and Cost of media	8	30%
III	Tourist Guide -Bhomio Role Function Duties peculiarities : Type of Guides and their Training-Conduct as Guide, Principales, watch man/Gaurds Important of Museum of Gujarat. Tourist Places in Gujarat and its importance	8	40%

Reference Books:

1. Suhita Chopra, Tourism Development of India, New Delhi, 1992
2. Dharmarajan and Sheth, Tourism in India: Tends and Issues, New Delhi, 1993
3. Virendra Koll, Tourism and The Conomy, New Delhi, 1994
4. A.K. Bhatia, Tourism in India: History and Development, New Delhi, 1978
5. Gleick, H.P. 1993. Water in crisis, Pacific Institute for Studies in Dev.,
Environment & Security. Stockholm Env. Institute Oxford Univ. Press.
6. Hawkins R.E., Encyclopedia of Indian Natural History, Bombay NaturalHistory
Society, Bombay (R)
7. Heywood, V.H & Waston, R.T. 1995. Global Biodiversity Assessment.Cambridge
Univ. Press
8. Jadhav, H & Bhosale, V.M. 1995. Environmental Protection and Laws.Himalaya Pub.
House, Delhi .

Suggested Readings:



1. Jadhav, H & Bhosale, V.M. 1995. Environmental Protection and Laws. Himalaya Pub. House, Delhi
2. Agarwal, K.C. 2021 Environmental Biology, Nidi Publ. Ltd. Bikaner.
3. Lighton Yoga: The Classic Guide to Yoga by the World's Foremost Authority - B.K.S. Iyengar

ON LINE Books:-

<https://pluskart.in/wp-content/uploads/2021/03/Environment-Demo-Copy-E-Vidhyalay-Publication-1.pdf>
<https://www.marrugujarat.in/2021/09/paryavaran-environment-gujarati-pd>

Course Outcomes	Expected Mapping with Programme Outcomes (1-Weak Correlation; 2-Medium correlation; 3-Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	POS-1	POS-2
CO-1	1			3	1					2		
CO-2	2											
CO-3	2										3	
CO-4	3						3					2



Gokul Global University, Siddhpur.

FACULTY OF ARTS, HUMANITIES & SOCIAL SCIENCE, SIDHPUR



Program : BACHLAOR OF ARTS						Subject / Branch					
: HISTORY											
Year : 2023-24						Semester : 2					
Course title :		HISTORY OF INDIA (From Earliest Time To 550 Ce)				Course code					
Course type :		THEORY				: CPMJDSCHIST201					
						Course credit		: 04			



Pre-requisite : Basic Knowledge of historical method

Rationale :

Teaching Examination Scheme :

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE	50	100
			25	25		

Course Objective :

1. Students will learn about the history of ancient India
2. Will get knowledge of Indian culture
3. Will get knowledge, idea of indo civilization
4. Will get knowledge different religions of India
5. Students will get help in competitive exams

Programme Outcome:

1. Knowledge of our history and heritage through which significant development in the history of the Indian sub continent from earliest.
2. Respect for national ethic, human values and ideals constitutional values.

Course Outcome :

1. Students will acquire knowledge regarding the primitive life
2. They can gather knowledge about the society, culture, religion and political history of ancient India.
3. Students can Such a problem and solution
4. To be Evaluate the factors affecting behavior

Content

Unit	Description in detail	Credit	Weightage
I	9. Unit-1 : Sources, Historiography and Prehistoric India • Sources, Historiography Trends of ancient Indian History up to 550 CE The Indus – Saraswati • Civilization, Debate On the relationship of Indus, Saraswati Civilization and Vedic Civilization. • Significant feature of Indus-Saraswati civilization, its Continuity, fall and survival	1	25 %
II	10. Unit-2 : Aryan Civilization	1	25 %



	• Vedic Cultures: early Vedic and post Vedic • literature and Vedic Polity, society and Economy • Vedic religion and philosophy • Epic literature and culture: Problem of dating and historicity of Epics.		
III	11.Unit-3 : Maurya Empire • The Maurya Empire, Chandragupta Mauryan, Ashok • Mauryan administration Mauryan Society, • Greek Invasion and its impact; Indica	1	25 %
IV	12.Unit-4 : Post Mauryan Age • Sangam age: Sangam literature, Society, Culture and Foreign trade in post Mauryan age. • Imperial Guptas and their Contemporaries Administration. • Gupta Art, Architecture, Religion, development of Science and Technology.	1	25 %

Reference Books:

19. Agrawal, D.P: The Archaeology of India, 1985
20. Majumdar, R.C: and Pusalker, A.D: The History and Culture of Indian People, Vol -2 3. Raychaudhary H.C: The History
21. A.S. Altekar, Education in Ancient India, Nand Kishors & Bros. Varasani, 1944.
22. Bhagvaddatt : Brahad Bharat Ka Itihas, Pranav Prakashan, New Delhi
23. Narendra Mohan : Bharatiya Sanskriti, Prabhat Prakashan, Delhi 2005
24. Satish Chandra Mittal : Bharatiya Sanskriti ke char adhyay, akhil Bharatiya itihas sankalan yojana, Delhi 2018
25. R.K. Shrivastava : Prachin Bharat ka Itihas tatha Sanskriti
- 26.

Suggested Readings :

1. 1. Agrawal, D.P: The Archaeology of India, 1985
2. 2. Majumdar, R.C: and Pusalker, A.D: The History and Culture of Indian People, Vol -2 3. Raychaudhary H.C: The History
3. A.S. Altekar, Education in Ancient India, Nand Kishors & Bros. Varasani, 1944.

Practical / Activities :

10. Discuss, project work
11. Assignment



12. Class test

Course Outcomes	Expected Mapping with Programme Outcomes (1-Weak Correlation; 2-Medium correlation; 3-Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	POS-1	POS-2
CO-1	1			3	1					2		
CO-2	2											
CO-3	2										3	
CO-4	3						3					2



Gokul Global University, Siddhpur.

FACULTY OF ARTS, HUMANITIES & SOCIAL SCIENCE, SIDHPUR



Program : BACHLAOR OF ARTS						Subject / Branch					
:HISTORY											
Year : 2023-24						Semester :2					
Course title :		HISTORY OF EUROP FROM 13 TH CENTURY						Course code			



	TO 1789	:CPMJDSCHIST201A
Course type :	THEORY	Course credit :04
Pre-requisite : Basic Knowledge of historical method		
Rationale :		

Teaching Examination Scheme :

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE	50	100
			25	25		

Course Objective :

1. Students will learn about the history of ancient India
2. Will get knowledge of Indian culture
3. Will get knowledge, idea of indo civilization
4. Will get knowledge different religions of India
5. Students will get help in competitive exams

Programme Outcome:

1. Tolerance a basic narrative of historical events in a specific region of the world in a specific time frame.
2. To Understand & evaluate different historical ideas, various arguments and point of view.
3. To develop an appreciation of themselves & of other through the study of the past in local, regional, national and global context.
4. Students can Such a problem and solution

Course Outcome:

1. Students will acquire knowledge about the evolution of human society and transformation of ancient civilization.
2. They can gather knowledge about the origin, features, nature and class composition of various societies.
3. They can compare to each and other among the several societies of the world.

Content

Unit	Description in detail	Credit	Weightage
I	Unit-1 : Age of Renaissance • The political, social and religious structure of Europe in the 13th century and the fall of Constantinople. • Renaissance: Meaning, factors leading to it and its impact on literature, art, architecture and science. • Geographical discoveries: Causes and Effects .	1	25 %
II	Unit-2 : Age of Absolutism • predominance of Spain and France.. • British Expansionism: Shift of economic balance from Mediterranean to Atlantic • Emergence of nation-state system	1	25 %



III	Unit-3 : Transition from: Feudalism to Capitalism, Enlightenment • Structure of Feudalism in Europe • Transition from Feudalism to Capitalism Discussion • Foundations of Enlightenment	1	25 %
IV	Unit-4 : Revolutions: • England's Bloodless Revolution • Parliamentary System • Bill of Rights and Significance • Factors of Industrial Revolution • Factors of French Revolution	1	25 %

Reference Books:

1. Anderson, M.S.: Europe in the 18th century
2. Hale J.R.: Renaissance Europe
3. Hilton Rodney: Transition from Feudalism to Capitalism
4. Hazen C.D.(1937): A History of Europe in Modern times, Henry Holt and Company
5. Koleshwar Rai: 1991 Paschim ka Uday (Uttar Madhyakalin Europe 1453-1783) Lala
6. Bahadur Verma: 1998, Europe ka Itihas.

Suggested Readings :

1. Hale J.R.: Renaissance Europe
2. Hilton Rodney: Transition from Feudalism to Capitalism

Practical / Activities :

1. Discuss, project work
2. Assignment
3. Class test

Course Outcomes	Expected Mapping with Programme Outcomes (1-Weak Correlation; 2-Medium correlation; 3-Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	POS-1	POS-2
CO-1	1			3	1					2		
CO-2	2											
CO-3	2										3	
CO-4	3						3					2



Gokul Global Univesity, Siddhpur.

FACULTY OF ARTS,HUMANITIES & SOCIAL SCIENCE , SIDHPUR



Program : BACHLAOR OF ARTS		Subject / Branch	
:HISTORY			
Year : 2023-24		Semester :2	
Course title :	HISTORY OF INDIA (From Earliest Time To 550 Ce)	Course code	
Course type :	THEORY	:CPMIDSCHIST202	
		Course credit	:04
Pre-requisite : Basic Knowledge of historical method			



Rationale :

Teaching Examination Scheme :

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE	50	100
			25	25		

Course Objective :

1. Students will learn about the history of ancient India
2. Will get knowledge of Indian culture
3. Will get knowledge, idea of indo civilization
4. Will get knowledge different religions of India

Programme Outcome:

1. Knowledge of our history and heritage through which significant development in the history of the Indian sub continent from earliest.
2. Respect for national ethic, human values and ideals constitutional values.

Course Outcome :

1. Students will acquire knowledge regarding the primitive life
2. They can gather knowledge about the society, culture, religion and political history of ancient India.
3. Students can Such a problem and solution
4. To be Evaluate the factors affecting behavior

Content

Unit	Description in detail	Credit	Weightage
I	13. Unit-1 : Sources, Historiography and Prehistoric India • Sources, Historiography Trends of ancient Indian History up to 550 CE The Indus – Saraswati • Civilization, Debate On the relationship of Indus, Saraswati Civilization and Vedic Civilization. • Significant feature of Indus-Saraswati civilization, its Continuity, fall and survival	1	25 %
II	14. Unit-2 : Aryan Civilization • Vedic Cultures: early Vedic and post Vedic • literature and Vedic Polity, society and Economy • Vedic religion and philosophy • Epic literature and culture: Problem of dating and	1	25 %



	historicity of Epics.		
III	15.Unit-3 : Maurya Empire • The Maurya Empire, Chandragupta Mauryan, Ashok • Mauryan administration Mauryan Society, • Greek Invasion and its impact; Indica	1	25 %
IV	16.Unit-4 : Post Mauryan Age • Sangam age: Sangam literature, Society, Culture and Foreign trade in post Mauryan age. • Imperial Guptas and their Contemporaries Administration. • Gupta Art, Architecture, Religion, development of Science and Technology.	1	25 %

Reference Books:

1. Agrawal, D.P: The Archaeology of India, 1985
2. Majumdar, R.C: and Pusalker, A.D: The History and Culture of Indian People, Vol -2 3. Raychaudhary H.C: The History
3. A.S. Altekar, Education in Ancient India, Nand Kishors & Bros. Varasani, 1944.
4. Bhagvaddatt : Brahad Bharat Ka Itihas, Pranav Prakashan, New Delhi
5. Narendra Mohan : Bharatiya Sanskriti, Prabhat Prakashan, Delhi 2005
6. Satish Chandra Mittal : Bharatiya Sanskriti ke char adhyay, akhil bharatiya itihas sankalan yojana, Delhi 2018
7. R.K. Shrivastava : Prachin Bharat ka Itihas tatha Sanskriti
- 8.

Suggested Readings :

1. Agrawal, D.P: The Archaeology of India, 1985
2. Majumdar, R.C: and Pusalker, A.D: The History and Culture of Indian People, Vol -2 3. Raychaudhary H.C: The History
3. A.S. Altekar, Education in Ancient India, Nand Kishors & Bros. Varasani, 1944.

Practical / Activities :

1. Discuss, project work
2. Assignment
3. Class test



Course Outcomes	Expected Mapping with Programme Outcomes (1-Weak Correlation; 2-Medium correlation; 3-Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	POS-1	POS-2
CO-1	1			3	1					2		
CO-2	2											
CO-3	2										3	
CO-4	3						3					2



Gokul Global University, Siddhpur.

FACULTY OF ARTS, HUMANITIES & SOCIAL SCIENCE, SIDHPUR



Program : BACHLAOR OF ART

Subject / Branch : (Multi Discipline) HISTORY

Year : 2023-24

Semester : 2



Course title :	Major Revolutions of Modern World	Course code :CPMDHIST203
Course type :	THEORY	Course credit :04
Pre-requisite : Basic Knowledge of historical method		
Rationale :		

Teaching Examination Scheme :

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE	50	100
			25	25		

Course Objective :

1. Students will learn about the history of Major Revolutions of Modern World
2. Will get knowledge of Revolutions
3. Will get knowledge, idea of Revolutions
4. Will get knowledge different religions of Modern World
5. Students will get help in competitive exams

Programme Outcome:

1. Tolerance a basic narrative of historical events in a specific region of the world in a specific time frame.
2. To Understand & evaluate different historical ideas, various arguments and point of view.
3. To develop an appreciation of themselves & of other through the study of the past in local, regional, national and global context.

Course Outcome:

1. Students will acquire knowledge about the evolution of human society and transformation of ancient civilization.
2. They can gather knowledge about the origin, features, nature and class composition of various societies.
3. They can compare to each and other among the several societies of the world.

Content

Unit	Description in detail	Credit	Weightage
I	Meaning of Revolution, Definition of Revolution, Type of Revolutions and Leadership Bloodless Revolution England (1688 A.D) Cause and its impact on British Constitution American Revolution of 1776, Causes, Impacts and Leaders,	1	25 %
II	French revolution of 1789, causes incident, Impacts, Contribution of Intellectual Industrial revolution: 1750-1850, Causes and Result Indian Freedom Movement, 1857, Causes, Incident, Impacts, Contribution of Dalits, Adivasi, Woman and Emperors	1	25 %



III	Chinese revolution of 1911, Causes and Results - Sun-Yat-Sen. Bolshevik revolution of 1917 (Russia), Causes, impacts on Russia and World, Leadership of Lenin Chinese Communist revolution of 1949-Causes and Impacts - Mao-Tse-Tung.	1	25 %
IV	Gandhian Movements, Non Co-operation Movement (1920), Civil Disobedience movement (1930), Quit India Movement (1942) Extremist nationalist Activity with reference Shyamji Krishna Verma, Sardarsinhji Rana, Vinayak Damodar Savarkar, Bhagat Singh Indian National Army and the Role of Subhas Chandra Bose in Freedom Struggle of India.	1	25 %

Reference Books:

1. Mark Kurlansky, A World History
2. Tom Standage, A History of the World in 6 Glasses
3. H. A. Davis, An outline of the World History
4. Eric Hobsbawn, The age of Revolution: 1789-1848

Course Outcomes	Expected Mapping with Programme Outcomes (1-Weak Correlation; 2-Medium correlation; 3-Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	POS-1	POS-2
CO-1	1			3	1					2		
CO-2	2											
CO-3	2										3	
CO-4	3						3					2



विद्या अनन्तम्

Gokul Global University, Siddhpur.

FACULTY OF ARTS, HUMANITIES & SOCIAL SCIENCE, SIDHPUR



Program : BACHLAOR OF ARTS		Subject / Branch	
:HISTORY			
Year : 2023-24		Semester :1	
Course title :	GANDHIAN EDUCATION	Course code :	CPIKSHIS205
Course type :	THEORY	Course credit	:02
Pre-requisite : Basic Knowledge of historical method			
Rationale :			

Teaching Examination Scheme :

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE	25	50
			25			

Course Objective :



1. Students will learn about the history of ancient India
2. Will get knowledge of Indian culture
3. Will get knowledge, idea of indo civilization
4. Will get knowledge different religions of India
5. Students will get help in competitive exams

Programme Outcome:

1. Tolerance a basic narrative of historical events in a specific region of the world in a specific time frame.
2. To Understand & evaluate different historical ideas, various arguments and point of view.
3. To develop an appreciation of themselves & of other through the study of the past in local, regional, national and global context.

Course Outcome:

1. Students will acquire knowledge about the evolution of human society and transformation of ancient civilization.
2. They can gather knowledge about the origin, features, nature and class composition of various societies.
3. They can compare to each and other among the several societies of the world.

Content

Unit	Description in detail	Credit	Weightage
I	Unit-1 Gandhi's Philosophy and education (Weeks: 5) • Gandhi's Philosophy on education • Education for character building and moral development • Education relating to health, hygiene, heritage, and handicraft)	1	25 %
II	Unit-2 : Gandhi's Experiment in Education (Weeks: 5) • Gandhi's educational ideas on use of Indian Language as a medium of Instruction, TextBook and Teacher. • Gandhi's educational thought on Elementary and Adult Education. • Gandhi's vision on Higher Education	1	25 %
III	Unit-3 : Gandhi's Educational Thought on Skill and Vocational Education (Weeks: 5) • Rural development through Skill and Local Need Based education • Skill education in NEP 2020 and Gandhi • Gandhi's Idea on Self-reliance (Swavalambi Shiksha) and its reflection in contemporary educational policy.	1	25 %

Reference Books:

1. Anand T. Hingorani, ed.] Gandhi, M.K. Our Language Problem (Bombay: • Bharatiya Vidya
2. Bhavan,), pp. 53-55
2. TOWARDS NEW EDUCATION written by M . K. Gandhi Edited by Bharatan Kumarappa.

Suggested Readings :

1. Coomaraswamy, Anand K. (1910}. Art and Swadeshi. Munshi Ram Manoharlal. Delhi

Practical / Activities :

4. Discus, project work



5. Assignment
6. Class test

Course Outcomes	Expected Mapping with Programme Outcomes (1-Weak Correlation; 2-Medium correlation; 3-Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	POS-1	POS-2
CO-1	1			3	1					2		
CO-2	2											
CO-3	2										3	
CO-4	3						3					2



Gokul Global University, Siddhpur.

FACULTY OF ARTS, HUMANITIES & SOCIAL SCIENCE, SIDHPUR



Program : BACHLAOR OF ARTS		Subject / Branch : Skill Enhancement Course HISTORY	
Year : 2023-24		Semester :2	
Course title :	Historical & Cultural Legacy of Ancient Gujarat	Course code :CPSECHIST206	
Course type :	THEORY	Course credit :02	
Pre-requisite : Basic Knowledge of historical method			
Rationale :			

Teaching Examination Scheme :

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
2	0	0	Mid	CE	25	50
			25			

Course Objective :

1. Students will learn about the history of ancient India
2. Will get knowledge of Indian culture
3. Will get knowledge, idea of indo civilization
4. Will get knowledge different religions of India
5. Students will get help in competitive exams

Programme Outcome:



1. Tolerance a basic narrative of historical events in a specific region of the world in a specific time frame.
2. To Understand & evaluate different historical ideas, various arguments and point of view.
3. To develop an appreciation of themselves & of other through the study of the past in local, regional, national and global context.

Course Outcome:

1. Students will acquire knowledge about the evolution of human society and transformation of ancient civilization.
2. They can gather knowledge about the origin, features, nature and class composition of various societies.
3. They can compare to each and other among the several societies of the world.

Content

Unit	Description in detail	Credit	Weightage
I	Changing geographical historical boundary lines of Gujarat With reference to the archaeological sites of Gujarat - Dholavira - Lothal • With reference to ancient capitals of Gujarat - Valabhi and Patan	0.5	25 %
II	With reference to ancient cities of Gujarat - Junagadh and Dwarka • Ancient Religious Architectures of Gujarat - With reference to Somnath and Surya Temple	0.5	25 %
III	Water Architectures of Gujarat Sudarshan Lake - Sahastraling Lake Ranaki Vav - Adalaj's Vav Acharya Hemchandracharya • Merutungacharya Acharya Hemchandracharya's associate Scholars	1	50%

Reference Books:

1. Bhoje vidhabhavan volum: Cultural and Political History of Gujarat, 2. Shivprasad Rajgor: Gujarat Darshan, publication Gujarat mahiti Department
3. Gujarat research society publish article vol 14, Brahmbhatt Prafulla-' GUJARATNA BADLATA BHAUGOLIKSIMADAO

Practical / Activities :

1. Discus, project work
2. Assignment
3. Class test



Course Outcomes	Expected Mapping with Programme Outcomes (1-Weak Correlation; 2-Medium correlation; 3-Strong Correlation)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	POS-1	POS-2
CO-1	1			3	1					2		
CO-2	2											
CO-3	2										3	
CO-4	3						3					2



**GOKUL
GLOBAL
UNIVERSITY**

Approved By Govt. of Gujarat
(Recognized by UGC under Section 22 & 2(f) of 1956)
(Gujarat Private State University Act 4 of 2018)

COURSE STRUCTURE

Bachelor of Science Zoology

Under National Education Policy (NEP)-2020



**Faculty of Science
Gokul Science College**

University Campus, State Highway-41,

Siddhpur - 384151, Dist. Patan, Gujarat, INDIA, Mobile : 9510973863

E- Mail : dean.fac.sci@gokuluniversity.ac.in, Website : www.gokuluniversity.ac.in





Bachelor of Science Program outcomes (PO)

PO No.	Program Outcome Description
PO1	Foundational Knowledge: Graduates will possess a strong foundation in the fundamental concepts, theories, and principles of their chosen discipline, as per the prescribed curriculum.
PO2	Practical Skills: Students will acquire practical skills relevant to their field, including laboratory techniques, data collection, analysis, and interpretation.
PO3	Critical Thinking: Graduates will develop critical thinking skills to analyze, evaluate, and solve scientific problems, applying logical reasoning and evidence-based approaches.
PO4	Effective Communication: Students will demonstrate effective communication skills, both orally and in writing, to convey scientific ideas and findings to different audiences.
PO5	Collaboration and Teamwork: Graduates will work collaboratively in teams, engaging in effective communication, cooperation, and coordination to accomplish shared objectives.
PO6	Information Literacy: Students will develop information literacy skills to access, evaluate, and utilize scientific information from diverse sources, including digital resources.
PO7	Ethical Awareness: Graduates will demonstrate ethical awareness and responsibility in scientific practice, understanding the importance of integrity, honesty, and ethical conduct.
PO8	Lifelong Learning: Students will develop a commitment to lifelong learning, staying updated with advancements in their field and engaging in continuous professional development.
PO9	Societal Impact: Graduates will recognize the social and ethical implications of scientific knowledge and contribute positively to society through their discipline.





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B.Sc. Zoology:

PSO No.	Program Specific Outcome Description
PSO1	Zoological Knowledge and Diversity: Graduates of the B.Sc. Zoology program will acquire a comprehensive understanding of animal biology, including animal morphology, physiology, taxonomy, and behaviour. They will be able to identify and classify diverse animal species.
PSO2	Animal Conservation and Wildlife Management: Graduates will demonstrate an understanding of animal conservation principles and possess skills to manage and protect animal habitats. They will contribute to wildlife conservation efforts, conduct research on animal behaviour and ecology, and promote sustainable wildlife management practices.



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GOKUL GLOBAL UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF ZOOLOGY												
Sr. No.	Course	Level	Semester	Course Type	Course Code	Course Name	Duration in Hrs.		Credit	Max. Marks	Total	
							Theory	Practical			CCE(Formative) (weekly test/ Assignment/ Attendance/ Practical/ Viva/ Group Discussion/ Quiz)	SEE (Sum mative)
1	Certificate	UG	I	Discipline Specific Course (Major-1)	CPZOO101DSC	Non-Chordates I: Protista To Pseudocoelomates	45	30	4	50	50	100
2				Discipline Specific Course (Major-2)	CPBOT101DSC	Introduction to Plant world	45	30	4	50	50	100
3				Discipline Specific Course (Minor)	CPCHE101DSC / CPMIC101DSC	General Chemistry-I / Introduction to microbial world	45	30	4	50	50	100
4				Multi-Disciplinary Course	CP101MDC	Basics of computer application	45	30	4	50	50	100
5				Ability Enhancement Course	CP101AEC	Communication Skills-1	30	---	2	25	25	50
6				Indian Knowledge System	CP101IKS	Indian Constitution	30	---	2	25	25	50
7				Skill Enhancement Course	CP101SE	Photography Basics	30	---	2	25	25	50
Total							270	120	22			550





GOKUL GLOBAL UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF ZOOLOGY												
Sr. No.	Course	Level	Semester	Course Type	Course Code	Course Name	Duration in Hrs.		Credit	Max. Marks	Total	
							Theory	Practical			CCE(Formative) (weekly test/ Assignment/ Attendance/ Practical/ Viva/ Group Discussion/ Quiz)	SEE (Sum mative)
1	Certificate	UG	II	Discipline Specific Course (Major-1)	CPZOO201DSC	Non-Chordates li: Coelomates	45	30	4	50	50	100
2				Discipline Specific Course (Major-2)	CPBOT201DSC	Morphology and tissue system in plants	45	30	4	50	50	100
3				Discipline Specific Course (Minor)	CPCHE201DSC / CPMIC201DSC	General Chemistry-II / Systematic bacteriology	45	30	4	50	50	100
4				Multi-Disciplinary Course	CP201MDC	Basic Statistics	45	30	4	50	50	100
5				Ability Enhancement Course	CP201AEC	Communication Skills-2	30	---	2	25	25	50
6				Value added Course-I	CP201IKS	Fundamentals of Nutrition	30	---	2	25	25	50
7				Skill Enhancement Course	CP201SE	Cyber Security	30	---	2	25	25	50
Total							270	120	22			550





GOKUL GLOBAL UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF ZOOLOGY												
Sr. No.	Course	Level	Semester	Course Type	Course Code	Course Name	Duration in Hrs.		Credit	Max. Marks	Total	
							Theory	Practical		CCE(Formative) (weekly test/ Assignment/ Attendance/ Practical/ Viva/ Group Discussion/ Quiz)	SEE (Sum mativ e)	
1	Diploma	UG	III	Discipline Specific Course (Major-1)	DPZOO301DSC	PRINCIPLES OF ECOLOGY	45	30	4	50	50	100
2				Discipline Specific Course (Major-2)	DPZOO302DSC	CHORDATES-I	45	30	4	50	50	100
3				Discipline Specific Course (Major-3)	DPBOT301DSC	MYCOLOGY AND PHYTOPATHOLOGY	45	30	4	50	50	100
4				Multi-Disciplinary Course	DP301MDC	ARTIFICIAL INTELLIGENCE(AI):- Knowledge Representation and Reasoning	45	30	4	50	50	100
5				Ability Enhancement Course	DP301AEC	CREATIVE WRITING ESSENTIAL	30	---	2	25	25	50
6				Indian Knowledge System	DP301IKS	YOGA	30	---	2	25	25	50
7				Skill Enhancement Course	DP301SEC	PRESENTATION SKILLS	30	---	2	25	25	50
Total							270	120	22			550





GOKUL GLOBAL UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF ZOOLOGY												
Sr. No.	Course	Level	Semester	Course Type	Course Code	Course Name	Duration in Hrs.		Credit	Max. Marks	Total	
							Theory	Practical		CCE(Formative) (weekly test/ Assignment/ Attendance/ Practical/ Viva/ Group Discussion/ Quiz)	SEE (Sum mative)	
1	Diploma	UG	IV	Discipline Specific Course (Major-1)	DPZOO401DSC	COMPARATIVE ANATOMY OF VERTEBRATES	45	30	4	50	50	100
2				Discipline Specific Course (Major-2)	DPZOO402DSC	CHORDATES-II	45	30	4	50	50	100
3				Discipline Specific Course (Major-3)	DPBOT401DSC	ANATOMY OF ANGIOSPERMS	45	30	4	50	50	100
4				Discipline Specific Course (Minor)	DPCHE401DSC	INRGANIC CHEMISTRY	45	30	4	50	50	100
5				Ability Enhancement Course	DP401AEC	PERSONALITY DEVELOPMENT	30	---	2	25	25	50
6				Value added Course-I	DP401VAC	SPORTS AND FITNESS	30	---	2	25	25	50
7				Skill Enhancement Course	DP401SEC	STRESS MANAGEMENT	30	---	2	25	25	50
Total							270	120	22			550





GOKUL GLOBAL UNIVERSITY, SIDHPUR

Programme Code		CPZOO		Programme Name		Certificate Programme of Zoology Science		
Course Code		CPZOO101DSC		Semester		I		
NON-CHORDATES I: PROTISTA TO PSEUDOCOELOMATES								
Course type:		Discipline Specific Course		Total Credit:		Theory	Practical	Total
						3	1	4
Teaching time (hours)		Examination Marking scheme						
Theory (Hrs.)	Practical (Hrs.)	Internal (Marks)		External (Marks)		Total (Marks)		
		Theory	Practical	Theory	Practical	100		
		3 X 15 = 45	15X2=30	25	25			50

Pre-requisite: The students must have core subjects like Biology and Chemistry in their higher secondary level

Rationale: The course would provide an insight to the learner about the existence of different life forms on the Earth, and appreciate the diversity of animal life. It will help the student to understand the features of Kingdom Animalia and systematic organization of the animals based on their evolutionary relationships, structural and functional affinities

Course Objective: The course will also make the students aware about the characteristic morphological and anatomical features of diverse animals; economic, ecological and medical significance of various animals in human life; and will create interest among them to explore the animal diversity in nature.

Course outcome:

1. Learn about the importance of systematic, taxonomy and structural organization of animals.
2. Appreciate the diversity of non-chordates living in varied habit and habitats.
3. Understand evolutionary history and relationships of different non-chordates through functional and structural affinities.
4. Critically analysis the organization, complexity and characteristic features of no chordates making them familiarize with the morphology and anatomy of representatives of various animal phyla.





5. Comprehend the economic importance of non-chordates, their interaction with the environment and role in the ecosystem.

Unit	Topic	Content	Hours	Weightage
1		Unit 1 Protista	15	33%
	1.1	Grades of body organization: level of organization, body symmetry, formation of germ layers, formation of coelom, body segmentation.		
	1.2	General characteristics and classification of protozoa (up to class).		
	1.3	Type study: Paramecium, Amoeba (habit and habitat, body structure, locomotion, nutrition, respiration, excretion and reproduction).		
	1.4	Life cycle of Plasmodium.		
2		Unit 2 Porifera & Cnidaria	15	33%
	2.1	General characteristics and classification of phylum porifera (up to class).		
	2.2	Canal system and types of spicules in sponges.		
	2.3	General characteristics and classification of phylum cnidaria (up to class)		
	2.4	Type study: Hydra (habit and habitat, external and internal structure, digestive system, respiration, excretion, nervous system, reproduction and regeneration		
3		Unit 3 Platyhelminths & Nematoda	15	34%
	3.1	General characteristics and classification of phylum platyhelminths (up to class).		
	3.2	Type study: Fasciola (habit and habitat, structure, digestive system, respiration, excretion, nervous system, reproduction).		
	3.3	General characteristics and classification of phylum nematode (up to class). Platyhelminthes and nematode related diseases: infestation, symptoms and treatment		
	3.4	Type study: Ascaris (habit and habitat, structure, digestive system, respiration, excretion, nervous system, reproduction).		

LIST OF EXPERIMENTS

- 1) Study of classification of protozoans (up to class) using (Amoeba, Euglena, Paramecium, Plasmodium).
- 2) Study of classification of phylum porifera (up to class) using laboratory specimens, models, slides, charts (Sycon or Leucosolenia, Hylonema or Euplectella, Spongilla or Euspongia).





- 3) Study of classification of phylum cnidaria (up to class) using laboratory specimens, models, slides, charts (Physalia or Hydra, Aurelia, Coral).
- 4) Study of classification of phylum Platyhelminthes (up to class) using laboratory specimens, models, slides, charts (Polystomum, Tap worm).
- 5) Study of classification of phylum Platyhelminthes (up to class) using laboratory specimens, models, slides, charts (Planaria, Liver fluke).
- 6) Study of classification of phylum nematode (up to class) using laboratory specimens, models, slides, charts (Filaria worm).
- 7) Study of classification of phylum nematode (up to class) using laboratory specimens, models, slides, charts (Ascaris).
- 8) Study of external morphology of Paramecium and preparation of whole mount slide of Paramecium from culture.
- 9) Examination of pond water collected from different places for diversity in Protista.
- 10) Study of adult Fasciola hepatica, Taenia solium, Ascaris lumbricoides and its life stages (Slides/micro-photographs).
- 11) Study of different body systems of Hydra using models, slides and charts.
- 12) Study of different body systems of Fasciola using models, slide and charts.
- 13) Study of different Body systems of Ascaris using models, slide and charts
- 14) Study of human parasitic diseases related to protozoan, platyhelminths and nematode (Malaria, Schistosomiasis, Lymphatic filariasis (Elephantiasis)).
- 15) Field trip and report preparation.

Suggested Readings:

- 1) Hickman C. P., et al. (2006) Integrated principals of Zoology, McGraw Hil Higher Education. 931pp. 14th edition.
- 2) Pechnik J. A. (2015) Biology of the Invertebrates, McGraw Hill Higher Education. 555 pp. 7th edition.
- 3) Jordan E. L. and Verma P. S. (1993) Invertebrate Zoology, S. Chand publishing. New Delhi.





- 4) EkambaranathaAyyar, M. and T.N. Ananthakrishnan, (1992) Manual of Zoology Vol. 1 (Invertebrates), parts I and II.S. Viswanathan (Printers and Publishers) Pvt. Ltd; Madras.2.

CO-PO & CO-PSO Mapping

Course Outcomes	Program Outcomes/ Program Specific Outcomes (1-Less Relevant, 2- Mild Relevant, 3-Highly Relevant)										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2
CO1	3	2	1	-	-	-	-	1	-	2	1
CO2	3	2	-	-	-	-	-	-	-	2	-
CO3	3	1	-	1	-	-	-	-	-	2	-
CO4	3	2	-	-	-	-	-	-	1	1	1





GOKUL GLOBAL UNIVERSITY, SIDHPUR

Programme Code		CPZOO		Programme Name		Certificate Programme of Zoology Science		
Course Code		CPZOO201DSC		Semester		II		
NON-CHORDATES II: COELOMATES								
Course type:		Discipline Specific Course		Total Credit:		Theory	Practical	Total
						3	1	4
Teaching time (hours)		Examination Marking scheme						
Theory (hrs.)	Practical (hrs.)	Internal (Marks)		External (Marks)		Total (Marks)		
		Theory	Practical	Theory	Practical	100		
		3 X 15 = 45	15X2=30	25	25			

Pre-requisite: The students must have core subjects like Biology and Chemistry in their Higher secondary level

Rationale: The course would provide an insight to the learner about the existence of different life forms on the Earth, and appreciate the diversity of animal life. It will help the student to understand the features of Kingdom Animalia and systematic organization of the animals based on their evolutionary relationships, structural and functional affinities

Course Objective: The course will also make the students aware about the characteristic morphological and anatomical features of diverse animals; economic, ecological and medical significance of various animals in human life; and will create interest among them to explore the animal diversity in nature.

Course outcome:

1. Learn about the importance of systematics, taxonomy and structural organization of animals.
2. Appreciate the diversity of non-chordates living in varied habit and habitats.
3. Understand evolutionary history and relationships of different non-chordates through functional and structural affinities.
4. Critically analysis the organization, complexity and characteristic features of nonchordates making them familiarize with the morphology and anatomy of representatives of various animal Mollusca





5. Comprehend the economic importance of non-chordates, their interaction with the environment and role in the ecosystem.

Unit	Topic	Content	Hours	Weightage
1		Unit 1 Mollusca	15	33%
	1.1	General characteristics and classification of phylum Mollusca (up to class).		
	1.2	Type study: Pila (habit and habitat, external features, digestive system, respiratory system, blood vascular system, excretory system, nervous and sensory system and reproductive system)		
	1.3	Torsion in gastropods.		
	1.4	Pearl culture.		
2		Unit 2 Annelida	15	33%
	2.1	General characteristics and classification of phylum Annelida (up to class).		
	2.2	Metamerism in Annelida.		
	2.3	Type study: Leech (habit and habitat, external features, digestive system, respiratory system, excretory system, nervous system and reproductive system).		
	2.4	Economic importance of annelids.		
3		Unit 3 Arthropoda	15	34%
	3.1	General characteristics and classification of phylum Arthropoda (up to class).		
	3.2	Type study: Cockroach (habit and habitat, external features, body wall, endoskeleton, locomotion, digestive system, respiratory system, blood vascular system, excretory system, nervous and sensory system and reproductive system).		
	3.3	Metamorphosis in insects.		
	3.4	Useful and harmful insects.		

LIST OF EXPERIMENTS

- 1) Study of classification of phylum Mollusca (up to class) using laboratory specimens, models, slides, charts (Mitilus, Octopus).
- 2) Study of classification of phylum Mollusca (up to class) using laboratory specimens, models, slides, charts (Chiton, Dentalium)
- 3) Study of classification of phylum Annelida (up to class) using laboratory specimens, models, slides, charts (Earthworm, Nereis, Leech).
- 4) Study of classification of phylum Arthropoda (up to class) using laboratory specimens, models, slides, charts (Spider, Centipede, Cockroach).





- 5) Study of classification of phylum Arthropoda (up to class) using laboratory specimens, models, slides, charts (Periaps, Limulus, Prawn)
- 6) Study of anatomy of different systems of Pila using charts and models (Digestive system, Nervous system and Reproductive system).
- 7) Study of anatomy of different systems of leech using charts and models (Digestive system, Nervous system and Reproductive system).
- 8) Study of anatomy of different systems of cockroach using charts and models (Digestive system, Nervous system and Reproductive system).
- 9) Study of histological structure of pharynx and gizzard using permanent slides.
- 10) Study of histological structure of typhlosole and ovary of earthworm using permanent slides.
- 11) Study of mouth parts of Leech.
- 12) Mounting of mouth parts of housefly, honey bee and mosquito.
- 13) Study of respiratory spiracles of cockroach
- 14) Study of radula of pila.
- 15) Field trip and report preparation

Suggested Readings:

- 1) Hickman C. P., et al. (2006) Integrated principals of Zoology, McGraw Hill Higher Education. 931pp. 14th edition.
- 2) Pechnik J. A. (2015) Biology of the Invertebrates, McGraw Hill Higher Education. 555 pp. 7th edition.
- 3) Jordan E. L. and Verma P. S. (1993) Invertebrate Zoology, S. Chand publishing. New Delhi.
- 4) EkambaranathaAyyar, M. and T.N. Ananthakrishnan, (1992) Manual of Zoology Vol. 1 (In vertebrata), parts I and II.S. Viswanathan (Printers and Publishers) Pvt. Ltd; Madras. 2.

CO-PO & CO-PSO Mapping

Course Outcomes	Program Outcomes/ Program Specific Outcomes (1-Less Relevant, 2- Mild Relevant, 3-Highly Relevant)										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2
CO1	2	2	-	-	-	2	-	1	2	2	1
CO2	3	1	-	-	-	2	-	2	2	2	-
CO3	2	2	-	-	-	2	-	2	-	2	1
CO4	2	1	2	-	-	1	2	2	1	1	-





GOKUL GLOBAL UNIVERSITY, SIDHPUR

Programme Code		DPZOO		Programme Name	Diploma Programme of Zoology Science		
Course Code		DPZOO301DSC		Semester	III		
PRINCIPLES OF ECOLOGY							
Course type:		Discipline Specific Course		Total Credit:	Theory	Practical	Total
					3	1	4
Teaching time (hours)		Examination Marking scheme					
Theory (hrs.)	Practical (hrs.)	Internal (Marks)		External (Marks)	Total (Marks)		
		Theory	Practical	Theory	Theory	Practical	Total
3 X 15 = 45	15X2=30	25	25	50	75	25	100

Pre-requisite: The students must have Passed first year of B.Sc. zoology

Rationale: Ecological concepts are general understandings (or facts) about ecosystems and ecosystem management. Ecological principles are basic assumptions (or beliefs) about ecosystems and how they function that are informed by the ecological concepts.

Course Objective:

1. Understand ecological principles and their historical context.
2. Explore the impact of environmental factors such as light, temperature and interspecific interactions on organisms.
3. Gain insights into ecosystem structure, function, and biogeochemical cycles.
4. Develop a comprehensive knowledge of diverse aquatic and terrestrial ecosystems and their biotic communities.

Course Outcome: At the end of the course, students shall be able to

CO1	After thorough learning of this course student will understand the population and community characteristics ecosystem development and climax theories.
CO2	Knowledge about the type of ecosystem food chains food web energy modals and ecological efficiencies.
CO3	They will understand about the paramount role and importance of nature.
CO4	It will impact then with the knowledge about the judicious use of existing ecological recourse for sustainable development.





Unit	Topic	Content	Hours	Weightage
1		Unit 1	15	33%
	1.1	Introduction to ecology, historical background, branches of ecology.		
	1.2	Structure of atmosphere, lithosphere and hydrosphere		
	1.3	Light and radiation: light variation in different environments, light receptors in organisms, effect of light on plants and animals.		
	1.4	Temperature: temperature fluctuations in different environments, effect of temperature on plant and animals, thermal adaptations of plants and animals		
2		Unit 2	15	33%
	2.1	Interspecific interactions: positive interactions- mutualism, commensalism, proto cooperation; negative interaction- exploitation, mentalism, competition		
	2.2	Kinds of ecosystems, structure of ecosystem, abiotic and biotic components of Ecosystem		
	2.3	Functions of ecosystem- productivity of ecosystem, types of food chain, types of ecological pyramids, energy flow in ecosystem.		
	2.4	Biogeochemical cycles: types of biogeochemical cycles, water cycle, oxygen cycle, carbon cycle, nitrogen cycle, sulphur and phosphorous cycle		
3		Unit 3	15	34%
	3.1	Aquatic ecosystems: sub division of aquatic ecosystems, freshwater ecosystems, lentic and lotic ecosystems.		
	3.2	Zonation of marine environment, stratification of marine environment, biotic communities of marine environment.		
	3.3	Classification of terrestrial ecosystem: different types of biomes.		
	3.4	Zoogeography.		

LIST OF EXPERIMENTS

- 1) Principle and function of Sechi disc, Atmometer, Anemometer, Hygrometer, Hair hygrometer, Lux meter, Rain gauge, Soil thermometer and thermometer.
- 2) To determine pH, EC, Acidity, Total hardness, calcium hardness, Dissolve oxygen content of given water sample.
- 3) To determine soli texture, bulk density and particle density of given soil sample.
- 4) To determine water holding capacity and percolation rate of soil.





- 5) To determine pH, Chloride, Sulphate and Total Nitrogen, organic matter of given soil sample.
- 6) Study of effect of temperature and light, thermal adaptations on plant and animals using models or charts.
- 7) Study of mutualism, commensalism and protocooperation, negative interaction-exploitation, mentalism, competition with example using models or charts.
- 8) Study of negative interaction- exploitation, mentalism, competition with example using models or charts.
- 9) Study of abiotic and biotic components, types of food chain, types of ecological pyramids in ecosystem, energy flow of ecosystem using models, or charts.
- 10) Study of different types of biological cycles, zonation, stratification and biotic communities of marine environment, biomes, zoogeography using models or charts.

Suggested Readings:

- 5) Hickman C. P., et al. (2006) Integrated principals of Zoology, McGraw Hill Higher Education. 931pp. 14th edition.
- 6) Pechnik J. A. (2015) Biology of the Invertebrates, McGraw Hill Higher Education. 555 pp. 7th edition.
- 7) Jordan E. L. and Verma P. S. (1993) Invertebrate Zoology, S. Chand publishing. New Delhi.
- 8) EkambaranathaAyyar, M. and T.N. Ananthakrishnan, (1992) Manual of Zoology Vol. 1 (In vertebrata), parts I and II.S. Viswanathan (Printers and Publishers) Pvt. Ltd; Madras. 2.

CO-PO & CO-PSO Mapping

Course Outcomes	Program Outcomes/ Program Specific Outcomes (1-Less Relevant, 2- Mild Relevant, 3-Highly Relevant)										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2
CO1	2	2	-	-	-	2	2	2	1	2	1
CO2	2	2	-	-	-	1	-	2	2	2	1
CO3	1	2	-	-	-	2	-	2	-	2	2
CO4	2	1	2	-	-	1	2	2	-	-	1





GOKUL GLOBAL UNIVERSITY, SIDHPUR

Programme Code		DPZOO		Programme Name	Diploma Programme of Zoology Science		
Course Code		DPZOO302DSC		Semester	III		
CHORDATES- I							
Course type:		Discipline Specific Course		Total Credit:	Theory	Practical	Total
					3	1	4
Teaching time (hours)		Examination Marking scheme					
Theory (hrs.)	Practical (hrs.)	Internal (Marks)		External (Marks)	Total (Marks)		
		Theory	Practical	Theory	Theory	Practical	Total
3 X 15 = 45	15X2=30	25	25	50	75	25	100

Pre-requisite: The students must have Passed first year of B.Sc. zoology

Rationale: The phylum Chordata consists of animals with a flexible rod supporting their dorsal or back sides. The phylum name derives from the Greek root word chord- meaning string. Most species within the phylum Chordata are vertebrates, or animals with backbones (subphylum Vertebrata).

Course Objective:

1. To provide a comprehensive understanding of chordates and vertebrates, their classification, and unique characteristics.
2. To explore the origins and evolutionary significance of primitive chordate groups.
3. To examine the diverse adaptations and biological features of fishes and amphibians, including migration, parental care, and metamorphosis.
4. To facilitate practical knowledge through type studies of representative species, enhancing comprehension of their anatomy, physiology, and ecological roles.

Course Outcomes: At the end of the course, students shall be able to

CO1	Understand the evolution history and relationship between the different classes of chordates.
CO2	Know the different characteristic along with their habit's habitats and distribution of the chordates.
CO3	Understand the significance of the difference in physiological system between the vertebrates.
CO4	Distinguish the significance of chordates from other lower organism and comprehend





their advantages.

Unit	Topic	Content	Hours	Weightage
1		Unit 1	15	33%
	1.1	General characters and origin of chordates.		
	1.2	Outline classification of chordates		
	1.3	Classification and general characters of subphylum Urochordata and Cephalochordate		
	1.4	Type study: Herdmania(Urochordata)and Amphioxus (Cephalochordate) (habit and habitat, external features and systems)		
2		Unit 2	15	33%
	2.1	General characteristics and classification of subphylum vertebrata		
	2.2	General characters and classification of fishes (up to orders), differences between Chondrichthyes and Osteichthyes, types of scales and caudal fins		
	2.3	Migration and parental care in fishes		
	2.4	Type study: <i>Scoliodon</i> - dog fish (habit and habitat, external features, digestive system, respiration		
3		Unit 3	15	34%
	3.1	General characteristics and classification of class amphibia		
	3.2	Metamorphosis in frog		
	3.3	Parental care in amphibia		
	3.4	Type study: <i>Hoplobatrachustigrinus</i> - bull frog (habit and habitat, external features, digestive system, respiration, blood vascular, nervous and Urinogenital system)		

LIST OF EXPERIMENTS

- 1) Study of classification of subphylum Urochordata and cephalochordate (up to Order) using laboratory specimens, models, slides, charts.
- 2) Study of classification of fishes (up to Order) using laboratory specimens, models, slides, charts.
- 3) Study of classification of Amphibian up to orders using laboratory specimens, models, slides, charts.





- 4) Study of Digestive system, Arterial system, venous system, Nervous system, Urinogenital system of Scoliodon using models, slides and charts.
- 5) Study of Digestive system, Arterial system, venous system, Nervous system, Urinogenital system of Bull frog using models, slides and charts.
- 6) Study of Embryology of Amphioxus using models, slides and charts.
- 7) Study of Migration, Parental care, in fishes.
- 8) Study of Metamorphosis in frog.
- 9) Study of Parental care in amphibian.
- 10) Study of Ampullae of Lorenzen, scale and internal ear of Dog fish using models, slides and charts (Mounting).
- 11) Study of buccal cavity, eye and Ear of Bull frog using models, slides and charts (Mounting).

Suggested Readings:

- 9) Hickman C. P., et al. (2006) Integrated principals of Zoology, McGraw Hill Higher Education. 931pp. 14th edition.
- 10) Pechnik J. A. (2015) Biology of the Invertebrates, McGraw Hill Higher Education. 555 pp. 7th edition.
- 11) Jordan E. L. and Verma P. S. (1993) Invertebrate Zoology, S. Chand publishing. New Delhi.
- 12) EkambaranathaAyyar, M. and T.N. Ananthakrishnan, (1992) Manual of Zoology Vol. 1 (Invertebrata), parts I and II. S. Viswanathan (Printers and Publishers) Pvt. Ltd; Madras. 2.

CO-PO & CO-PSO Mapping

Course Outcomes	Program Outcomes/ Program Specific Outcomes (1-Less Relevant, 2- Mild Relevant, 3-Highly Relevant)										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2
CO1	2	3	-	-	-	2	2	2	-	2	1
CO2	2	2	-	-	-	2	-	1	2	1	-
CO3	2	2	-	-	-	1	-	2	-	2	-
CO4	2	1	2	-	-	1	2	2	1	1	1





GOKUL GLOBAL UNIVERSITY, SIDHPUR

Programme Code		DPZOO		Programme Name	Diploma Programme of Zoology Science		
Course Code		DPZOO401DSC		Semester	IV		
COMPARATIVE ANATOMY OF VERTEBRATES							
Course type:		Discipline Specific Course		Total Credit:	Theory	Practical	Total
					3	1	4
Teaching time (hours)		Examination Marking scheme					
Theory (hrs.)	Practical (hrs.)	Internal (Marks)		External (Marks)	Total (Marks)		
		Theory	Practical	Theory	Theory	Practical	Total
3 X 15 = 45	15X2=30	25	25	50	75	25	100

Pre-requisite: The students must have Passed first year of B.Sc. zoology

Rationale: Comparative Anatomy, The Comparative Study of The Body Structures of Different Species of Animals in Order to Understand the Adaptive Changes They Have Undergone in The Course of Evolution from Common Ancestors.

Course Objective:

1. To impart students with a comprehensive understanding of vertebrate morphology, encompassing the integumentary system, digestive and respiratory organs, skeletal structures, receptors, and nervous systems.
2. To facilitate comparative analysis across vertebrate groups, enabling students to recognize anatomical variations and adaptations.
3. To equip students with the knowledge and skills necessary for careers in biology, zoology, and veterinary sciences by fostering a deep appreciation for vertebrate structure and function.
4. To prepare individuals to contribute to research and education in the field of vertebrate morphology, promoting a deeper understanding of the animal kingdom's diversity and evolution.

Course Outcome: At the end of the course, students shall be able to

CO1	To impart students with a comprehensive understanding of vertebrate morphology, encompassing the integumentary system
CO2	To facilitate comparative analysis across vertebrate groups, enabling students to recognize





	anatomical variations and adaptations.
CO3	To equip students with the knowledge and skills necessary for careers in biology, zoology, and veterinary sciences by fostering a deep appreciation for vertebrate structure and function.
CO4	To impart students with a comprehensive understanding of vertebrate digestive and respiratory organs, skeletal structures, receptors, and nervous systems

Content

Unit	Description in detail	Credit	Weightage
I	Vertebrate morphology: definition, scope and importance Development, structure and functions of vertebrate integument and its derivatives (glands, scales, feathers and hair) Comparative account of digestive organs of different vertebrate groups Comparative account of respiratory organs of different vertebrate groups	1	33 %
II	Overview of f axial and appendicular skeleton of vertebrates Comparative account of skeletal system of different vertebrate groups (skull, pectoral and pelvic girdles, vertebral column, teeth and jaw suspensorium) Classification of receptors, Brief account of olfactory and auditory receptors in vertebrate Comparative account of urinogenital system in vertebrates	1	33 %
III	Comparative account of heart in vertebrates Comparative account of aortic arches and portal systems of vibrates. Comparative account of brain and spinal cord of vertebrates Comparative account of peripheral and autonomous nervous system.	1	34 %

Reference Books:

- 1) Hickman C. P., et al. (2006) Integrated principals of Zoology, McGraw Hill Higher Education. 931pp. 14th edition.
- 2) Kotpal R. L. (2010) vertebrates, Rastogi Publications, 882 pp
- 3) Jordan E. L. and Verma P. S. (2013) Chordate Zoology, S. Chand publishing. New Delhi.





Online Resources:

1. http://gdckulgam.edu.in/Files/f07ef270-7e91-4716-8825-2966f17cc0f7/Custom/Comparative%20Anatomy%20and%20Developmental%20Biology%20of%20Vertebrates_compressed.pdf
2. <https://content.patnawomenscollege.in/zoology/COMPARITIVE%20ANATOMY%20OF%20DIGESTIVE%20SYSTEM%20IN%20VERTEBRATES.pdf>
3. <https://opentextbc.ca/biology/chapter/19-1-types-of-skeletal-systems/>
4. http://www.citycollegekolkata.org/online_course_materials/Comparative_Anatomy_of_Aortic_Arches_in_Vertebrates.pdf
5. http://www.citycollegekolkata.org/online_course_materials/20201203_Comparative_Anatomy_of_Heart_in_Vertebrates.pdf

Practical:

1. Study of vertebrate integument and its derivatives glands
2. Study of vertebrate integument and its derivatives scales/feathers
3. Study of vertebrate integument and its derivatives hair
4. Comparative account of digestive organs (Stomach), different vertebrate groups.
5. Comparative account of respiratory organs different vertebrate groups.
6. Comparative account of Lung and trachea different vertebrate groups.
7. Comparative account of Skull different vertebrate groups.
8. Comparative account of pectoral girdles of different vertebrate groups.
9. Comparative account of vertebral column of different vertebrate groups.
10. Comparative account of teeth and Jaw of different vertebrate groups.
11. Study of Comparative account of receptors, auditory receptors in vertebrate animals.
12. Study of Comparative account of kidney, brain in vertebrate animals.
13. Study of Comparative account of heart, aortic arches, portal in vertebrate animals.
14. Study of Comparative account of brain, spinal cord, peripheral nervous system, autonomous nervous system of vertebrates.

CO-PO & CO-PSO Mapping

Course Outcomes	Program Outcomes/ Program Specific Outcomes (1-Less Relevant, 2- Mild Relevant, 3-Highly Relevant)										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2
CO1	2	1	-	-	-	2	-	2	2	2	-
CO2	2	2	-	-	-	2	-	2	2	1	1
CO3	2	2	-	-	-	2	-	-	1	2	-
CO4	1	1	2	-	-	1	-	1	1	1	1





GOKUL GLOBAL UNIVERSITY, SIDHPUR

Programme Code		DPZOO		Programme Name	Diploma Programme of Zoology Science		
Course Code		DPZOO402DSC		Semester	IV		
CHORDATES- II							
Course type:		Discipline Specific Course		Total Credit:	Theory	Practical	Total
					3	1	4
Teaching time (hours)		Examination Marking scheme					
Theory (hrs.)	Practical (hrs.)	Internal (Marks)		External (Marks)	Total (Marks)		
		Theory	Practical	Theory	Theory	Practical	Total
3 X 15 = 45	15X2=30	25	25	50	75	25	100

Pre-requisite: The students must have Passed first year of B.Sc. zoology

Rationale: The notochord is an embryonic midline structure common to all members of the phylum Chordata, providing both mechanical and signaling cues to the developing embryo. In vertebrates, the notochord arises from the dorsal organizer and it is critical for proper vertebrate development.

Course Objective:

1. To provide students with a comprehensive understanding of vertebrate biology by exploring the classification, anatomy, and adaptations of reptiles, birds, and mammals.
2. To facilitate in-depth type studies of representative species, fostering analytical skills and knowledge of vertebrate anatomy and physiology.
3. To equip students with the expertise needed to appreciate the ecological roles, adaptations, and economic significance of these vertebrate classes, preparing them for careers in biology and conservation.
4. To inspire a deep appreciation for biodiversity and evolution in the natural world, motivating students to contribute to research, education, and conservation efforts in vertebrate biology.

Course Outcomes: At the end of the course, students shall be able to

CO1	Understand the evolutionary history and relationship between the different classes of chordates.





CO2	Know the different characteristics along with their habits and distribution of the chordates.
CO3	Understand the significance of the different in physiological systems between the vertebrates.
CO4	Distinguish the significance of the chordates from other lower organisms and comprehend their advantages

Content

Unit	Description in detail	Credit	Weightage
I	General characters and classification of class Reptilia Origin, evolution and adaptive radiation in reptiles. Type study: <i>Calotes versicolor</i> - The Garden Lizard (habit and habitat, external features, digestive system, respiration, blood vascular, nervous and Urinogenital system) Introduction to venomous and non- venomous snakes, poison apparatus and biting mechanism in snakes, symptoms and cure of snake bite	1	33 %
II	General characteristics and classification of class Aves Type study: <i>Columba livia</i> - The common rock pigeon (habit and habitat, external features, digestive system, respiration, blood vascular, nervous and Urinogenital system) Origin, mechanism, mode and adaptation of bird flight Migration and economic importance of birds	1	33 %
III	General characteristics and classification of class Mammalia Type study: <i>Rattus rattus</i> - The Rat (habit and habitat, external features, digestive system, respiration, blood vascular, nervous and Urinogenital system) Adaptations in terrestrial, aquatic and flying mammals Economic importance of mammals	1	34 %

Reference Books:

- 1) Hickman C. P., et al. (2006) Integrated principals of Zoology, McGraw Hill Higher Education. 931pp. 14th edition.
- 2) Kotpal R. L. (2010) vertebrates, Rastogi Publications, 882 pp
- 3) Jordan E. L. and Verma P. S. (2013) Chordate Zoology, S. Chand publishing. New Delhi.





Online Resources:

1. <https://www.notesonzooology.com/vertebrates/reptiles/reptiles-origin-and-adaptive-radiation-with-diagram-chordata-zoology/8230>
2. <https://www.biologydiscussion.com/zoology/reptiles/calotes-structure-sense-organs-and-ecdysis-reptiles/41163>
3. https://ugcmoocs.inflibnet.ac.in/assets/uploads/1/225/6922/et/20_Academic%20Script_200319070703034848.pdf

Practical:

1. Study of classification of Class Reptilia (up to Order) using laboratory specimens, models, slides, charts.
2. Study of classification of class Aves (up to Order) using laboratory specimens, models, slides, charts.
3. Study of classification of class Mammalian up to orders using laboratory specimens, models, slides, charts.
4. Study of Digestive system, Arterial system, venous system, Nervous system, Urinogenital system of *Calotis versicolor* using models, slides and charts.
5. Study of Digestive system, Arterial system, venous system, Nervous system, Urinogenital system, of *Columba Livia* using models, slides and charts.
6. Study of Digestive system, Arterial system, venous system, Nervous system, Urinogenital system, of *Rattus rattus* using models, slides and charts.
7. Study of Air sac and gizzard of *Columba Livia* using models, slides and charts (mounting).
8. Study of Pecten and cloacae of *Calotis versicolor* using models, slides and charts (mounting).
9. Study of hair and teeth of *Rattus rattus* using models, slides and charts (mounting).
10. Study of Adaptations in terrestrial, aquatic, flying mammals.
11. Study of venomous snakes and non-venomous snakes using models, biting mechanism in snakes using models, slides and charts.

CO-PO & CO-PSO Mapping

Course Outcomes	Program Outcomes/ Program Specific Outcomes (1-Less Relevant, 2- Mild Relevant, 3-Highly Relevant)										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2
CO1	2	3	-	-	-	2	2	2	2	2	-
CO2	1	1	-	-	-	2	-	2	2	3	-
CO3	2	2	-	-	-	2	-	1	1	2	1
CO4	2	1	-	-	-	1	2	2	2	1	1



COURSE STRUCTURE

Bachelor of Science

Mathematics

Under

National Education Policy (NEP-2020)



Faculty of Science
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Program Outcomes: At the end of the Program, students shall be able to

PO No.	Program Outcome Description
PO1	Foundational Knowledge: Graduates will possess a strong foundation in the fundamental concepts, theories, and principles of their chosen discipline, as per the prescribed curriculum.
PO2	Practical Skills: Students will acquire practical skills relevant to their field, including laboratory techniques, data collection, analysis, and interpretation.
PO3	Critical Thinking: Graduates will develop critical thinking skills to analyze, evaluate, and solve scientific problems, applying logical reasoning and evidence-based approaches.
PO4	Effective Communication: Students will demonstrate effective communication skills, both orally and in writing, to convey scientific ideas and findings to different audiences.
PO5	Collaboration and Teamwork: Graduates will work collaboratively in teams, engaging in effective communication, cooperation, and coordination to accomplish shared objectives.
PO6	Information Literacy: Students will develop information literacy skills to access, evaluate, and utilize scientific information from diverse sources, including digital resources.
PO7	Ethical Awareness: Graduates will demonstrate ethical awareness and responsibility in scientific practice, understanding the importance of integrity, honesty, and ethical conduct.
PO8	Lifelong Learning: Students will develop a commitment to lifelong learning, staying updated with advancements in their field and engaging in continuous professional development.
PO9	Societal Impact: Graduates will recognize the social and ethical implications of scientific knowledge and contribute positively to society through their discipline.

Program specific outcome

PSO No.	Program Specific Outcome Description
PSO1	Mathematical Proficiency: Graduates of the B.Sc. Mathematics program will possess a strong foundation in mathematical concepts, theories, and techniques. They will demonstrate proficiency in mathematical reasoning, problem-solving, and the application of mathematical tools and methods in various domains.
PSO2	Analytical Thinking and Modeling: Graduates will develop advanced analytical thinking skills and the ability to construct mathematical models to represent and solve real-world problems. They will apply mathematical principles to analyze data, make predictions, and provide insights in fields such as finance, engineering, and computer science.



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(Gujarat Private State University Act 4 of 2018)

GOKUL GLOBAL UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF MATHEMATICS B.Sc. Semester I (Course Structure) (IN EFFECT FROM ACADEMIC YEAR: 2023-24)												
Sr. No.	Course	Level	Semest er	Course Type	Course Code	Course Name	Duration in Hrs.		Cre dit	Max. Marks		Total
							Theory	Practical		CCE(Formative) (weekly test/ Assignment/ Attendance/ Practical/ Viva/ Group Discussion/ Quiz)	SEE (Sum mative)	
1	Certificate	UG	I	Discipline Specific Course (Major-1)	CPMAT101DSC	Differential Calculus	45	30	4	50	50	100
2				Discipline Specific Course (Major-2)	CPPHY101DSC	Mechanics and Basic Electronics (MAE)	45	30	4	50	50	100
3				Discipline Specific Course (Minor)	CPCHE101DSC	General Chemistry-I	45	30	4	50	50	100
4				Multi-Disciplinary Course	CP101MDC	Basics of computer application	45	30	4	50	50	100
5				Ability Enhancement Course	CP101AEC	Communication Skills-1	30	---	2	25	25	50
6				Indian Knowledge System	CP101IKS	Indian Constitution	30	---	2	25	25	50
7				Skill Enhancement Course	CP101SE	Photography Basics	30	---	2	25	25	50
Total							270	120	22	275	275	550



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GOKUL GLOBAL UNIVERSITY
FACULTY OF SCIENCE
DEPARTMENT OF MATHEMATICS
B.Sc. Semester II (Course Structure)
(IN EFFECT FROM ACADEMIC YEAR: 2023-24)

Sr. No.	Course	Level	Semester	Course Type	Course Code	Course Name	Duration in Hrs.		Credit	Max. Marks		Total
							Theory	Practical		CCE(Formative) (weekly test/ Assignment/ Attendance/ Practical/ Viva/ Group Discussion/ Quiz)	SEE (Sum mativ e)	
1	Certificate	UG	II	Discipline Specific Course (Major-1)	CPMAT201DSC	Integral Calculus & Differential Equation	45	30	4	50	50	100
2				Discipline Specific Course (Major-2)	CPPHY201DSC	Wave, Electronics & Semiconductor Device (WES)	45	30	4	50	50	100
3				Discipline Specific Course (Minor)	CPCHE201DSC	General Chemistry-II	45	30	4	50	50	100
4				Multi-Disciplinary Course	CP201MDC	Basic Statistics	45	30	4	50	50	100
5				Ability Enhancement Course	CP201AEC	Communication Skills-2	30	---	2	25	25	50
6				Discipline Specific Course (Major-1)	CPMAT201DSC	Integral Calculus & Differential Equation	30	---	2	25	25	50
7				Discipline Specific Course (Major-2)	CPPHY201DSC	Wave, Electronics & Semiconductor Device (WES)	30	---	2	25	25	50
Total							270	120	22	275	275	550



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GOKUL GLOBAL UNIVERSITY
FACULTY OF SCIENCE
DEPARTMENT OF MATHEMATICS
B.Sc. Semester III (Course Structure)
(WITH EFFECT FROM AN ACADEMIC YEAR: 2024-25)

Sr. No.	Course	Level	Semester	Course Type	Course Code	Course Name	Duration in Hrs.		Credit	Max. Marks		Total
							Theory	Practical		CCE(Formative) (weekly test/ Assignment/ Attendance/ Practical/ Viva/ Group Discussion/ Quiz)	SEE (Summative)	
1	Diploma	UG	III	Discipline Specific Course (Major-1)	DPMAT301DSC	Linear Algebra and Calculus	45	30	4	50	50	100
2				Discipline Specific Course (Major-2)	DPMAT302DSC	Numerical Analysis	45	30	4	50	50	100
3				Discipline Specific Course (Major-3)	DPPHY301DSC	Optics, Modern Physics & Laser (OMPL)	45	30	4	50	50	100
4				Multi-Disciplinary Course	DP301MDC	Artificial Intelligence (AI):- Knowledge Representation and Reasoning	45	30	4	50	50	100
5				Ability Enhancement Course	DP301AEC	Creative Writing Essential	30	---	2	25	25	50
6				Indian Knowledge System	DP301IKS	Yoga	30	---	2	25	25	50
7				Skill Enhancement Course	DP301SEC	Presentation Skills	30	---	2	25	25	50
Total							270	120	22	275	275	550



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GOKUL GLOBAL UNIVERSITY
FACULTY OF SCIENCE
DEPARTMENT OF MATHEMATICS
B.Sc. Semester IV (Course Structure)
(WITH EFFECT FROM AN ACADEMIC YEAR: 2024-25)

Sr. No.	Course	Level	Semester	Course Type	Course Code	Course Name	Duration in Hrs.		Credit	Max. Marks		Total
							Theory	Practical		CCE(Formative) (weekly test/ Assignment/ Attendance/ Practical/ Viva/ Group Discussion/ Quiz)	SEE (Sum mativ e)	
1	Diploma	UG	IV	Discipline Specific Course (Major-1)	DPMAT401DSC	Advanced Calculus	45	30	4	50	50	100
2				Discipline Specific Course (Major-2)	DPMAT402DSC	Advanced Linear Algebra	45	30	4	50	50	100
3				Discipline Specific Course (Major-3)	DPPHY401DSC	Electromagnetism, Electronics & Plasma Physics (EMEP)	45	30	4	50	50	100
4				Discipline Specific Course (Minor)	DPMAT403DSC	Mathematical Modeling	45	30	4	50	50	100
5				Ability Enhancement Course	DP401AEC	Personality Development	30	---	2	25	25	50
6				Value Added Course-II	DP401VAC	Sports And Fitness	30	---	2	25	25	50
7				Skill Enhancement Course	DP401SEC	Stress Management	30	---	2	25	25	50
Total							270	120	22	275	275	550



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GOKUL GLOBAL UNIVERSITY, SIDHPUR

Programme Code		CPMAT		Programme Name		Certificate Programme of Mathematics		
Course Code		CPMAT101DSC		Semester		I		
DIFFERENTIAL CALCULUS								
Course type:		Discipline Specific Course		Total Credit:		Theory	Practical	Total
						3	1	4
Teaching time (hours)		Examination Marking scheme						
Theory (hrs.)	Practical (hrs.)	Internal (Marks)		External (Marks)		Total (Marks)		
		Theory	Practical	Theory	Practical	100		
3 X 15 = 45	15 X 2=30	25	25	50	00			

Pre-requisite: Having Passed 12th science examination from recognized board with A or AB Group.

Rationale : The primary objects of study in differential calculus are the derivative of a function, related notions such as the differential, and their applications.

Course Objective:

- Construct mathematical expressions and graphs involving functions and their derivatives.
- Compute mathematical quantities using differential calculus and interpret their meaning
- Write logical progressions of precise statements to justify and communicate mathematical reasoning

Course Outcome:

- The students will be solve differentiable equation, define power series and solve other equation of cone, sphere.
- Apply the knowledge of calculus to solve problems related to polar curves and its applications in determining the bendiness of a curve.
- Solve first-order linear/nonlinear ordinary differential equations analytically using standard methods.



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Unit	Topic	Content	Hours	Weightage
1		Matrices & Vector analysis	15	33%
	1.1	Introduction of matrices, different types of matrices, Operations on matrices, theorems on matrices. Symmetric and skew -symmetric matrices, Hermitian and skew-Hermitian matrices		
	1.2	Linear dependence and independence of row and column matrices, Row rank, Column rank and rank of matrix, Row reduced Echelon form of a matrix and matrix inversion using it		
	1.3	Vector analysis: scalar and vector product of three vectors, Product of four vectors, Reciprocal vectors, vector differentiation		
	1.4	Polar co-ordinates, Spherical and cylinder co-ordinates and their relations		
2		Successive differentiation	15	33%
	2.1	Successive Derivatives, Some standard results for n^{th} derivatives,		
	2.2	Leibnitz's Theorem and its examples, Cauchy's Mean Value Theorem		
	2.3	Taylor's Theorem (without proof), Maclaurin's series (without proof) and its examples, Expansion of power series of $\sin x$, $\cos x$, e^x		
3		Geometry	15	34%
	3.1	Sphere, Cone and Cylinder and introduction to Conicoids: Plane section of sphere, intersection of two sphere, intersection of sphere and line, power at a point, tangent plane and normal Plane of contact, angle of intersection of two Spheres, condition of orthogonality.		
	3.2	Cone: Definition of cone, vertex, guiding curve, generators, equation of a cone with a given vertex and a guiding curve, right Circular cone with given vertex, axis and semi vertical angle		
	3.3	Cylinder: Definition of a cylinder, equation of a cylinder whose generators intersect a given cone and are parallel to a given line equation of a right circular cylinder		

Reference Books:

- Shantinaraayan: Text book of Matrices, S. Chand and Co.
- Vector Analysis, by Murry R. Spiegel.
- Vector Analysis, by Dr. K. S. Rawat, SARUP& SONS, DELHI
- Gorakhprasad: Differential Calculus, Pothishala Pvt. Ltd., Allahabad



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- Calculus by Dr. K.R.Kachot, Mahajan publishing house

LIST OF EXPERIMENTS

- 1) Solution of simultaneous linear equations using matrices.
- 2) Application of the inverse matrix by row reduction method.
- 3) Application of the rank of a matrix and rank of a matrix
- 4) Application of the rank of a matrix by transforming into echelon form.
- 5) Application of Hermitian and skew – Hermitian matrices.
- 6) Application of gradient & divergent.
- 7) Application of curl.
- 8) Find the nth derivative of the given function at given point.
- 9) Application of Leibnitz's theorem.
- 10) Application of Cauchy Mean value theorem.
- 11) Application of Taylor's theorem
- 12) Application of Maclaurin's theorem.
- 13) Application on Sphere.
- 14) Application on Cone
- 15) Application on Cylinder

Reference Books:

- James Stewart: "Calculus" Cengage publications, 7th edition, 4th Reprint 2019
- B. S. Grewal: "Higher Engineering Mathematics", Khanna publishers, 44th Ed. 2018 E.
- Kreyszig: "Advanced Engineering Mathematics", John Wiley & Sons, 10th Ed. (Reprint), 2016.



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Mapping of Course Outcomes (COs) with Program Outcomes (POs) and Program Specific Outcomes (PSOs):

Course Outcomes	Program Outcomes										
	1: -Less relevant, 2:- Mild relevant 3:- Highly relevant										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2
CO1	3	3	2	1	1					3	1
CO2	3	3					1	1		2	2
CO3	2	1		1		1		1		2	1



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GOKUL GLOBAL UNIVERSITY, SIDHPUR

Programme Code		CPMAT		Programme Name		Certificate Programme of Mathematics		
Course Code		CPMAT201DSC		Semester		II		
INTEGRAL CALCULUS & DIFFERENTIAL EQUATION								
Course type:		Discipline Specific Course		Total Credit:		Theory	Practical	Total
						3	1	4
Teaching time (hours)		Examination Marking scheme						
Theory (hrs.)	Practical (hrs.)	Internal (Marks)		External (Marks)		Total (Marks)		
		Theory	Practical	Theory	Practical	100		
3 X 15 = 45	15 X 2=30	25	25	50	00			

Pre-requisite : Having Passed 12th science examination from recognized board with A or AB Group.

Rationale : integral calculus & differential equation we being a few examples to illustrate how some integration problems involving rational number.

Course Objective:

- Analyze functions using limits, derivative, and integrals.
- Calculate definite integrals that may involve logarithms, exponentials, and polynomials.
- The applications of differential calculus and also organize results in appropriate visual displays or tables.

Course Outcome:

- Explain the relationship between the derivative of a function as a function and the notion of the derivative as the slope of the tangent line to a function at a point.
- Compare and contrast the ideas of continuity and differentiability.
- To inculcate to solve algebraic equations and inequalities involving the sequence root and modulus function.



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Unit	Topic	Content	Hours	Weightage
1		Integration:	15	33%
	1.1	Reduction formula: $\int_0^{\frac{\pi}{2}} \sin^n \theta d\theta, \int_0^{\frac{\pi}{2}} \cos^n \theta d\theta, \int_0^{\frac{\pi}{2}} \sin^m \theta \cos^n \theta d\theta, m, n \in N$		
	1.2	Application of definite integrals to: Summation of the series		
	1.3	Application of definite integrals to: Rectification		
	1.4	Application of definite integrals to: Surface and volume revolution		
2		De Moivre's theorem and its applications:	15	34%
	2.1	Roots of a complex number		
	2.2	Application of Expansion of $\sin^n \theta, \cos^n \theta, n \in N$ in terms of sine and cosine of multiples of θ		
	2.3	Expansion of $\sin n\theta, \cos n\theta$ and $\tan n\theta$ in terms power of sine, cosine and tangent respectively		
	2.4	Exponential, Circular and hyperbolic function, Logarithmic and Inverse functions.		
3		Linear Differential Equation	15	33%
	3.1	Linear differential equation $\frac{dy}{dx} + Py = Q$, P and Q are functions of x , Bernoulli's differential equation, Differential equation of first order and higher degree solvable, For x , solvable for y , solvable for $P = \frac{dy}{dx}$.		
	3.2	Solution of Clairaut's and Lagrange's differential equation. Linear differential equation with constant coefficients.		

Reference Books:

- Shantinayan: Integral Calculus, S. Chand and Co., New Delhi
- Gorakhprasad: Integral Calculus, Pothishala Pvt. Ltd., Allahabad.
- D.A. Murray: Differential Equations, Tata McGraw Hills
- Frank Ayres: Theory and problems on Differential Equations, McGraw Hill Book Co., New York.





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LIST OF EXPERIMENTS

- 16) Application of Reduction formula for integration.
- 17) Application of summation of the series.
- 18) Application of rectification by using integration.
- 19) Application of surface revolution using integration.
- 20) Application of volume revolution.
- 21) Application of De' Moivre's theorem.
- 22) Application of roots of complex number.
- 23) Application of $\sin n\theta, \cos n\theta, n \in N$ in terms of $\sin \theta, \cos \theta$.
- 24) Application logarithm and Inverse Function.
- 25) Application of $\sin n\theta, \cos n\theta$ and $\tan n\theta$ in terms of power of $\sin \theta, \cos \theta$ and $\tan \theta$
- 26) Application of linear differential equation $dy/dx + Py = Q$, where P and Q are function of x .
- 27) Application of Bernoulli's differential equation.
- 28) Application of differential equation in first order and higher degree solvable for x, y and p , Where
 $P = dy/dx$
- 29) Application of Clairaut's differential equation.
- 30) Application of linear differential equation with constant coefficients.

Reference Books:

- James Stewart: "Calculus" Cengage publications, 7th edition, 4th Reprint 2019
- Integral Calculus Differential Equations, Dipak Chatterjee, Tata McGraw-Hill, 1999



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Mapping of Course Outcomes (COs) with Program Outcomes (POs) and Program Specific Outcomes (PSOs):

Course Outcomes	Program Outcomes										
	1:-Less relevant, 2:- Mild relevant 3:- Highly relevant										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2
CO1	3	3	1	2				1		3	1
CO2	2	3	2		1		1			2	2
CO3	3	2				1	1			2	1



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GOKUL GLOBAL UNIVERSITY, SIDHPUR

Programme Code:	CPMDC	Programme Name:	Certificate Programme of Multi-Disciplinary Course			
Course Code:	CP201MDC	Semester:	II			
Basic Statistics						
Course Type:	Multi-Disciplinary Course	Total Credit:	Theory	Practical	Total	
			03	01	04	
Teaching time (hours)		Examination Marking scheme				
Theory (hrs)	Practical (hrs)	Internal (Marks)		External (Marks)		Total (Marks)
45=15 X 3	30=15 X 2	Theory	Practical	Theory	Practical	100
		25	25	50	00	

Course Objective:

- The course aims to introduce the basic concepts of Probability and Statistics.
- The course aims to equip students with the ability to apply statistical methods to solve real-world problems across different domains.
- Another objective of the course is to develop students' analytical skills through hands-on experience with statistical analysis.
- Course Outcomes:** At the end of the course, students shall be able to

CO1	Analyse statistical data using measures of central tendency and Dispersion.
CO2	Understand Concepts of Correlation and basic concepts of Regression.
CO3	Understand and use the terminology of probability



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Unit	Content	Hrs.	Weightage
1	Measures of central tendency: Mean, mode and median, harmonic and geometric means. Measures of dispersion: Range, coefficient of range, Quartiles deviations, standard deviation, mean deviation.	15	33%
2	Correlation & Regression analysis: Definitions of correlation, positive & negative correlations, Scatter diagram, Karl- Pearson's coefficient of linear correlation, Properties of correlation coefficients and examples, regression coefficient, properties of regression coefficient and examples.	15	33%
3	Probability: Classical- Statistical (or Empirical)- Axiomatic (Modern) definition of probability, Definitions of event, equally likely, mutually exclusive and exhaustive events, Probability theorems, Statements of Baye's theorem and examples, Conditional probability and examples.	15	34%

Reference Books:

1. "Comprehensive Statistical Method", P.N.Arora, Sumeet Arora, S. Arora.
2. "Fundamental of Applied Statistics", S.C. Gupta & V.K. Kapoor-COMDEX.
3. "Business Statistics", R.S. Bhardwaj, Excel Books, New Delhi.
4. "Statistical Methods", S. P. Gupta-Sultan Chand Publication
5. "Business Statistics", Bharat Jhunjhunwala, S. Chand Prakashan.
6. "Statistics", R.S.N.Pillai, V. Bagavathi, S. Chand & Company, New- Delhi.

Suggested Readings:

1. "Comprehensive Statistical Method", P.N.Arora, Sumeet Arora, S. Arora.

Online Resources:

1. <https://youtu.be/lBB4stn3exM?si=YIy-oqVNSscYjyx5>
2. <https://youtu.be/V3iEsLPAD68?si=rGcD1cpzxnuzQhgY>
3. <https://youtu.be/QAEZOHE13Wg?si=CKxDA2zeRlCRaDxr>



Practical / Activities:

1. Introduction to MATLAB: Basic commands and syntax.
2. Using MATLAB as a calculator.
3. Creating and manipulating variables.
4. Data Input and Output: Importing data from external files (e.g., .txt, .csv).
5. Data Input and Output: Exporting data to external files.
6. Calculating mean, median, mode.
7. Calculating variance, standard deviation, range.
8. Generating histograms and frequency distributions.
9. Plotting different types of graphs (e.g., line plots, scatter plots, bar charts).
10. Customizing plot appearance (e.g., labels, titles, colors).
11. Creating subplots for multiple visualizations.
12. Statistical Functions in MATLAB: Utilizing built-in MATLAB functions for statistical analysis (e.g., mean(), std(), corr(), regress()).
13. Case Studies and Applications: Solving practical problems using statistical methods.
14. Calculating Pearson correlation coefficient.
15. Performing linear regression analysis: Visualizing scatter plots and regression lines.

Mapping of Course Outcomes (COs) with Program Outcomes (POs) and Program Specific Outcomes (PSOs):

Course Outcomes	Program Outcomes										
	1:-Less relevant, 2:- Mild relevant 3:- Highly relevant										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2
CO1	3	3	2		2		1	1	1	3	2
CO2	3	3		1	1	1			1	2	2
CO3	3	2	1	1		1		1		2	1



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Programme Code		DPMAT		Programme Name		Diploma Programme of Mathematics		
Course Code		DPMAT301DSC		Semester		III		
Linear Algebra and Calculus								
Course Type		Discipline Specific Course		Total Credit		Theory	Practical	Total
						3	1	4
Teaching time (hours)		Examination Marking scheme						
Theory (hrs.)	Practical (hrs.)	Internal (Marks)		External (Marks)		Total (Marks)		
		Theory	Practical	Theory	Practical	Theory	Practical	Total
3 X 15 = 45	15 X 2=30	25	25	50	00	75	25	100

Prerequisite: Basic knowledge of relation, equivalence relation, binary operation.

Course Objective:

- The main objective of this course is to learn vector space, linear transformations.
- learn some basics of partial derivatives and its applications.
- Compute mathematical quantities using differential calculus and interpret their meaning.

Course Outcomes: At the end of the course, students shall be able to

CO1	Learn the concept of vector spaces and linear transformations which are essential in simplifying various scientific problems.
CO2	Apply problem-solving skills to effectively compute large linear systems.
CO3	Apply vector calculus techniques to motivate the study of vector differentiation and integration in two- and three-dimensional spaces.
CO4	Understand the combination of two important aspects of modern mathematics via Linear Algebra and Vector Calculus.





Unit	Content	Credit	Weightage
1	Vector space: Definition, Examples, and Properties of Vector space and Subspaces, Span of a Set, Operations of Subspaces, Sum and direct sum of Subspaces. Finite linear combination, Linear dependence/independence, Basis and dimension of a vector space, Dimension Theorem. Linear Transformations: Linear Transformations, Range and Kernel of a Linear Map, Rank and Nullity of a Linear Map, Rank – Nullity Theorem, Inverse of a Linear Map, Consequences of Rank – Nullity Theorem, Isomorphism, Operator equation	1	34%
2	Limit-Continuity and Differentiability of function of several variables: Introduction to function of severable variables, limit and continuity of function of several variables, Partial derivatives and Differentials, Differentiability of function of two variables, Conditions for commutativity of independent variables in higher ordered derivatives, Derivatives of implicit functions, Schwarz theorem	1	33%
3	Application of partial derivatives: Euler's theorem for homogeneous functions, Young's theorem, Extreme values of function of severable variables, Application of Lagrange's method of undetermined multiplies, Problems on Taylor and Maclaurin theorems for function of two variables.	1	33%

Reference Books:

1. 'Differential Calculus' by Shantinaraayan, S. Chand, New Delhi.
2. 'An Introduction to Linear Algebra, by V. Krishnamurthy, V P Mainra, J L Arora, Affiliated East-west Press Pvt Ltd., New Delhi.
3. Advanced Calculus, R C Buck, Mac Millan.
4. Kalan Shashtra Part I, D H Pandya and N D Suthar, University Granth Nirman Board (Gujarati).
5. Kalan Shashtra Part II, A M Vaudya and V H Pandya, University Granth Nirman Board.
6. Linear Algebra Problem Book, P R Holmos, Cambridge University Press.
7. Topics in Algebra, I N Herstein, Wiley Eastern Ltd.
8. Linear Algebra, Gupta K P, Pragati Prakashan, Meerut.

Suggested Readings:





1. James Stewart: "Calculus" Cengage publications, 7th edition, 4th Reprint 2019.
2. E. Kreyszig: "Advanced Engineering Mathematics", John Wiley & Sons, 10th Ed. (Reprint), 2016.

Online Resources:

1. https://www.youtube.com/watch?v=L6_c6qv1B8I&list=PLzJaFd3A7DZuyLLbmVpb9e9VLf3Q9cYBL
2. <https://www.classcentral.com/subject/math>
3. https://youtu.be/BnE_MJaU8B

Practical / Activities:

1. Assignment
2. Quiz/ unit test

Sr. No.	List of practical	Credit
1	Applications of Vector Space	1
2	Applications of Subspaces	
3	Applications of Basis	
4	To Expand linearly independent set to a basis of a vector space	
5	Verification on Dimension theorem	
6	Verifications on Linear transformation	
7	Verifications on Rank-Nullity theorem	
8	To find the inverse of a Linear transformations	
9	To find composition of linear maps	
10	Application of Limit and Continuity (Two Practical)	
11	Application of Partial Derivatives (Two Practical)	
12	Application of Lagrange's method of undermined multiplies	
13	Application of Euler's theorem	
14	Application of Taylor's and Maclaurin's theorems	





Reference Books:

1. Linear Algebra, Gupta K P, Pragati Prakashan, Meerut
2. Differential Calculus' by Shantinayaran, S. Chand, New Delhi
3. Linear Algebra Problem Book, P R Holmos, Cambridge University Press

Suggested Readings:

1. James Stewart: "Calculus" Cengage publications, 7th edition, 4th Reprint 2019
2. E. Kreyszig: "Advanced Engineering Mathematics", John Wiley & Sons, 10th Ed. (Reprint), 2016

Online Resources:

1. <https://www.classcentral.com/subject/math>
2. <https://www.youtube.com/watch?v=WX6O9TiFYsA&list=PLU6SqYcYsfIJRI8mo2Rv1MpdvmVD0YyI>
3. https://www.youtube.com/watch?v=L6_c6qv1B8I&list=PLzJaFd3A7DZuyLLbmVpb9e9VLf3Q9cYBL

Practical / Activities:

1. Practices

Mapping of Course Outcomes (COs) with Program Outcomes (POs) and Program Specific Outcomes (PSOs):

Course Outcomes	Program Outcomes										
	1:-Less relevant, 2:- Mild relevant 3:- Highly relevant										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2
CO1	3	3	2	2		2		2		3	
CO2	2	3			1		1				2
CO3	2	2	1	2	1					2	
CO4	2	1	1		1		1	1			2





GOKUL GLOBAL UNIVERSITY, SIDHPUR

Programme Code		DPMAT		Programme Name		Diploma Programme of Mathematics		
Course Code		DPMAT302DSC		Semester		III		
Numerical Analysis								
Course Type		Discipline Specific Course		Total Credit		Theory	Practical	Total
						3	1	4
Teaching time (hours)		Examination Marking scheme						
Theory (hrs.)	Practical (hrs.)	Internal (Marks)		External (Marks)		Total (Marks)		
		Theory	Practical	Theory	Practical	Theory	Practical	Total
3 X 15 = 45	15 X 2=30	25	25	50	00	75	25	100

Prerequisites: Basic understanding of calculus, algebra, and elementary numerical methods.

Course Objective:

- To develop the basic understanding of numerical algorithms and skills to implement algorithms to solve mathematical problems on the computer.
- Develop proficiency in numerical techniques for differentiation, integration.
- An introduction to a broad range of numerical methods for solving mathematical problems that arise in Science and Engineering.

Course Outcomes: At the end of the course, students shall be able to

CO1	Students will understand and apply finite difference tables and Gregory-Newton's interpolation formulas for accurate data interpolation.
CO2	Understand the difference operators and their application in interpolation techniques.
CO3	Evaluate a derivative at a value using an appropriate numerical method and solving ordinary differential equations using various methods.
CO4	Develop practical proficiency in numerical analysis techniques, for differentiation, integration, and solution of differential equations.





Unit	Content	Credit	Weightage
1	<u>Errors in numerical calculations:</u> Absolute, Relative and percentage errors, A General errors formula, Errors in a series approximation. <u>Finite differences table and theory of interpolation:</u> Ascending and Descending differences, Symbolic operators Difference of polynomial, Factorial polynomials, Gregory-Newton's forward and backward interpolation formula.	1	33%
2	<u>Divided differences:</u> Newton's divide difference interpolation formula, Lagrange's interpolation formula for equal and unequal intervals. <u>Central difference interpolation formula:</u> Gauss forward and backward interpolation formula, Stirling interpolation formula, Bessel's interpolation formula.	1	33%
3	<u>Numerical differentiation and integration & numerical solution of ordinary differential equation:</u> Trapezoidal rule, Simpson's 1/3 rule, Simpson's 3/8 rule, Picard's method, Taylor's method, Euler's Method, Modified Euler's Method.	1	34%

Reference Books:

1. Introductory Methods of Numerical Analysis, S.S.Sastry, PHI Publication, New Delhi, 5th Edt., 2012.
2. Numerical Analysis by Kunz, McGraw Hill.
3. Numerical Analysis by R. Gupta, Anmol Pub. Pvt.Ltd, New Delhi.
4. Numerical Analysis P. N. Chatterjiacons Prakashanmandir, Meerut.
5. Methods in Numerical Analysis K. W. NelsonMac-Millan.
6. Numerical Methods Dr. V. N. Vedomurthy, Vikas Publishing House Pvt. Ltd.
7. Numerical Methods in Engineering and Science, Dr. B. S. Grewal, Khanna Pub.

Suggested Readings:

1. Numerical Analysis by Richard L. Burden, J. Douglas Faires.
2. Numerical Mathematics and Computing by E. Ward Cheney and David R. Kincaid.

Online Resources:

1. <https://www.vedantu.com>
2. <https://ocw.mit.edu>





Practical / Activities:

1. Quiz/unit test
2. Assignment

Sr. No.	List of practical	Credit
1	Application of Gregory-Newton forward formula	01
2	Application of Gregory-Newton backward formula	
3	Applications of Newton's divided difference formula	
4	Application of Lagrange's interpolation formula for unequal intervals	
5	Application of Gauss forward interpolation formula	
6	Application of Gauss backward interpolation formula	
7	Application of Stirling interpolation formula	
8	Application of Bessel's interpolation formula	
9	Application of Numerical differentiation	
10	Application of Trapezoidal rule	
11	Application of Simpson's 1/3 rule	
12	Application of Simpson's 3/8 rule	
13	Application of Picard's method	
14	Application of Taylor's method	
15	Application of Euler's method & Modified Euler's method	

Mapping of Course Outcomes (COs) with Program Outcomes (POs) and Program Specific Outcomes (PSOs):

Course Outcomes	Program Outcomes										
	1:-Less relevant, 2:- Mild relevant 3:- Highly relevant										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2
CO1	3	2	2			2				3	
CO2	2	3		2	1		1				2
CO3	3	1		1		1		1		2	
CO4	2	1	1			1		1			1





GOKUL GLOBAL UNIVERSITY, SIDHPUR

Programme Code		DPMAT		Programme Name		Diploma Programme of Mathematics		
Course Code		DPMAT401DSC		Semester		IV		
Advanced Calculus								
Course Type		Discipline Specific Course		Total Credit		Theory	Practical	Total
						3	1	4
Teaching time (hours)		Examination Marking scheme						
Theory (hrs.)	Practical (hrs.)	Internal (Marks)		External (Marks)		Total (Marks)		
		Theory	Practical	Theory	Practical	Theory	Practical	Total
3 X 15 = 45	15 X 2=30	25	25	50	00	75	25	100

Prerequisite: Basic knowledge of algebra, geometry, trigonometry, elementary functions, differentiation and integration.

Course Objective:

- To acquire comprehensive knowledge of vector calculus, and for enhancing problem-solving skills in multivariable calculus.
- To provide the student with the skills of vector calculus operations which are needed for further study in mathematics.
- Utilize this understanding in various scientific and engineering disciplines.

Course Outcomes: At the end of the course, students shall be able to

CO1	Solve mathematical problems involving convergence and special properties of Beta and Gamma function.
CO2	Apply double and triple integrals to solve complex geometric and physical problems.
CO3	Perform the vector calculus through the application of vector differential calculus.
CO4	Apply advanced calculus techniques to solve practical problems.





Unit	Content	Credit	Weightage
1	<u>Curvature & Radius of Curvature:</u> Curvature of a plane curve, radius of curvature of a plane curve, singular points of a plane curve, points of inflection for a plane curve. <u>Beta and Gamma functions:</u> Definitions of the Beta function and Gamma function, Convergence of the Beta function and Gamma function, relation between them, properties and applications, several forms of Beta function.	1	33%
2	<u>Multiple Integrals:</u> Double Integrals, Integrals on non-rectangular regions, transformation to polar coordinate, changing the order of integration, triple integration and transformation to polar and cylindrical coordinates, and problems based on them.	1	33%
3	<u>Vector Calculus, Line & Surface Integrals:</u> Gradient of a scalar function, divergence and curl of a vector function, definition of line integral, surface and volume integrals, Green's theorem, Stoke's and Gauss's Divergence theorem, and it's applications.	1	34%

Reference Books:

1. Integral Calculus, Shantinirayan S. Chand, New Delhi (Course Book).
2. Advanced Calculus, D V Widder, Prentice Hall, New Delhi.
3. Advanced Calculus Vol: I & II, T M Apostol, Blaisdell.
4. Advanced Calculus, R C Buck, MacMillan.
5. Kalan Shashtra Part I, D H Pandya and N D Suthar, University Granth Nirman Board (Gujarati).
6. Kalan Shashtra Part II, A M Vaudya and V H Pandya, University Granth Nirman Board (Gujarati).
7. Calculus, James Stewart, Sixth edition, (E-Book).

Suggested Readings:

1. Advanced Calculus Lynn H. Loomis and Shlomo Stenberg, Harvard University.
2. Kalan Shashtra Part II, A M Vaudya and V H Pandya, University Granth Nirman Board (Gujarati).

Online Resources:

1. <https://www.youtube.com/watch?v=4QFsiXfgbzM&list=PLbRMhDVUMngeVrxtbBz-n8HvP8KAWBpI5>





2. <https://www.youtube.com/watch?v=9sLsX9DV5Fs&list=PLU6SqdYcYsfIvbXltebRgBfmgxRiP-gTJ>

Practical / Activities:

1. Assignment
2. Quiz

Sr. No.	List of Practical	Credit
1	Application of Radius of curvature of plane curve	01
2	Application of points of inflection for a plane curve	
3	Application of Beta function	
4	Application of Gamma function	
5	Application of relation of Beta & Gamma function	
6	Application of double Integration	
7	Application of change of order of Integration	
8	Application of transformation coordinates systems	
9	Application of triple Integration	
10	Application of Line integral	
11	Application of Surface Integral	
12	Application of Green's Theorem	
13	Application of Stokes' theorem	
14	Application of Gauss's divergence theorems.	

Reference Books:

1. Linear Algebra, Ramchandra Rao, P. Bhimasankar, Tata Mac Graw Hill.
2. Topics in Algebra, I N Herstein, Wiley Eastern Ltd.
3. An Introduction to Linear Algebra' by V. Krishnamurthy, V P Mainra, J L Arora, Affiliated East-west Press Pvt Ltd., New Delhi .

Suggested Readings:

1. James Stewart: "Calculus" Cengage publications, 7th edition, 4th Reprint 2019.





Online Resources:

1. <https://www.classcentral.com/subject/math>
2. https://youtu.be/BnE_MJaU8B

Practical / Activities:

1. Practices

Mapping of Course Outcomes (COs) with Program Outcomes (POs) and Program Specific Outcomes (PSOs):

Course Outcomes	Program Outcomes										
	1:-Less relevant, 2:- Mild relevant 3:- Highly relevant										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2
CO1	3	2	1	1	2		1	2		3	
CO2	2	3			1	1					2
CO3	3	1	1				1			2	
CO4	2	1	1		1			1			1





GOKUL GLOBAL UNIVERSITY, SIDHPUR

Programme Code		DPMAT		Programme Name		Diploma Programme of Mathematics		
Course Code		DPMAT402DSC		Semester		IV		
Advanced Linear Algebra								
Course Type		Discipline Specific Course		Total Credit		Theory	Practical	Total
						3	1	4
Teaching time (hours)		Examination Marking scheme						
Theory (hrs.)	Practical (hrs.)	Internal (Marks)		External (Marks)		Total (Marks)		
		Theory	Practical	Theory	Practical	Theory	Practical	Total
3 X 15 = 45	15 X 2=30	25	25	50	00	75	25	100

Prerequisite: A solid understanding of basic linear algebra, including vector spaces, matrix operations, and systems of linear equations.

Course Objective:

- The main objective of this course is to solve problems involving norms, inequalities, and orthogonalization processes.
- Master advanced topics in the course of linear algebra to solve higher-dimensional problems.
- Develop a deep understanding of the course content to analyse and solve complex mathematical problems in both theoretical and applied contexts.

Course Outcomes: At the end of the course, students shall be able to

CO1	Understand and apply the concepts of matrices of linear transformations to analyze the invertibility of systems of linear equations.
CO2	Understand the concepts of Dual spaces, and Inner product space.
CO3	Master the concepts of inner product spaces for applications in mathematical analysis and problem-solving.
CO4	Apply eigenvalues and eigenvectors of linear operators to diagonalize real and symmetric matrices.





Unit	Content	Credit	Weightage
1	<u>Matrices of a Linear Transformation:</u> Definition of a matrix of a linear transformation, Linear transformation associated with a matrix, the dimension of $L(U,V)$ and its determination, Rank and Nullity of a matrix, invertibility of system of linear equations.	1	33%
2	<u>Linear Functional and Duality:</u> Definition of linear functional and its examples, definition of Dual space and Dual basis and its examples, adjoint of a linear operator, its properties and examples. <u>Inner Product Space:</u> Definition of inner product space, Norm, Orthogonality, Schwarz's & Triangular inequality, Parallelogram law, Orthonormal basis, Gram-Schmidt orthogonalization process (without proof) and its examples	1	33%
3	<u>Eigen Values and Eigen Vectors:</u> Eigen values and Eigen vectors of a linear transformation, Characteristic polynomial, Cayley – Hamilton theorem, finding inverse of a matrix using Cayley – Hamilton theorem, minimal polynomial deductions.	1	34%

Reference Books:

1. An Introduction to Linear Algebra' by V. Krishnamurthy, V P Mainra, J L Arora, Affiliated East-west Press Pvt Ltd., New Delhi.
2. Linear Algebra, Ramchandra Rao, P. Bhimasankar, Tata Mac Graw Hill.
3. Topics in Algebra, I N Herstein, Wiley Eastern Ltd.
4. Linear Algebra, S K Berberion, Oxford University Press.
5. Linear Algebra Problem Book, P R Holmos, Cambridge University Press.
6. Linear Algebra, Sharma and Vashishtha, Krishna Prakashan, Meerut.

Suggested Readings:

1. James Stewart: "Calculus" Cengage publications, 7th edition, 4th Reprint 2019.
2. S. Kumaresan, "Linear Algebra a Geometric Approach", PHI.

Online Resources:

1. https://youtu.be/BnE_MJaU8B
2. <https://www.classcentral.com/subject/math>s
3. https://www.youtube.com/watch?v=L6_c6qv1B8I&list=PLzJaFd3A7DZuyLLbmVpb9e9VLf3Q9cYBL





Practical / Activities:

1. Assignment
2. Quiz/unit test

Sr. No.	List of Practical	Credit
1	Applications of a linear transformation associated with given matrix	01
2	Applications of a matrix associated with linear transformation	
3	Find the kernel & the Range of Matrices	
4	Verifications of Rank-Nullity theorem on matrices	
5	Application of solution of system of linear equations	
6	Application of Linear functional	
7	Application of Adjoint of a linear Operator	
8	Application of a Dual Space	
9	Application to verify inner product space	
10	Application of Schwarz's & Triangular inequality	
11	Application of Gram-Schmidt orthogonalization process	
12	Application of Cayley – Hamilton theorem	
13	Application of Eigen value and Eigen vectors of a linear transformation	
14	Application of minimal polynomial deduction	

Mapping of Course Outcomes (COs) with Program Outcomes (POs) and Program Specific Outcomes (PSOs):

Course Outcomes	Program Outcomes										
	1:-Less relevant, 2:- Mild relevant 3:- Highly relevant										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2
CO1	3	3	2	2		2		1		3	
CO2	3	1	2		1		2				2
CO3	2	2		1		1			1	2	
CO4	2	1	1	1			1				1





GOKUL GLOBAL UNIVERSITY, SIDHPUR

Programme Code		DPMAT		Programme Name		Diploma Programme of Mathematics		
Course Code		DPMAT403DSC		Semester		IV		
Mathematical Modeling								
Course Type		Discipline Specific Course (Minor)		Total Credit		Theory	Practical	Total
						3	1	4
Teaching time (hours)		Examination Marking scheme						
Theory (hrs.)	Practical (hrs.)	Internal (Marks)		External (Marks)		Total (Marks)		
		Theory	Practical	Theory	Practical	Theory	Practical	Total
3 X 15 = 45	15 X 2=30	25	25	50	00	75	25	100

Prerequisite: Basic knowledge of calculus and algebra.

Course Objective:

- (d) After going through this course, the students will be able to solve differential equations used in mathematical modelling.
- (e) Understand fundamental concepts and assumptions underlying mathematical models in epidemiology, including compartmental models.
- (f) To understand the role of inventory management in business and operations.

Course Outcomes: At the end of the course, students shall be able to

CO1	Interpret and analyze solutions obtained from mathematical models applied to differential equations.
CO2	Student will be able to study epidemic situations using different Mathematical models.
CO3	Analyze and differentiate between different types of inventory and their respective costs, and model.
CO4	Apply mathematical modelling technique to solve real-world problems.





Unit	Content	Credit	Weightage
1	<u>Solution of a differential equation:</u> Power series solution of a differential equation about an ordinary point, solution about a regular singular point, Bessel's equation and Legendre's equation.	1	33%
2	<u>Mathematical Models in epidemiology:</u> Introduction to the subject, its scope and limitation, classification of models, SI model, SIS model with constant coefficient, SIS model with coefficient as a function of time t, SIS model with constant number of carriers, SIS model when the carriers is a function of time t, SIR model, Epidemics with vaccination.	1	33%
3	<u>Mathematical Models in Inventory Management:</u> Importance of Inventory Management, Types of Inventory, Inventory Costs: Holding, Ordering, and Shortage Costs, Inventory Management Systems, Economic Order Quantity (EOQ) Model: Basic EOQ Model, EOQ with Quantity Discounts.	1	34%

Reference Books:

1. Mathematical Modeling- J N Kapoor, New Age Publishers. Linear Algebra, Ramchandra Rao, P. Bhimasankar, Tata Mac Graw Hill.
2. J. N. Kapur, Mathematical Models in Biology and Medicine, East-West press Pvt. Ltd., 1992.
3. Mathematical Biology I : J.D. Murray, Springer.
4. "Inventory Management and Production Planning and Scheduling" by Edward A. Silver, David F. Pyke, and Rein Peterson.
5. "Inventory Control and Management" by Donald Waters.
6. T. Myint-U and Lokenath Debnath, Linear Partial Differential Equation for Scientists and Engineers, Springer, Indian reprint, 2006.
7. F. Ibrahima and c. castillo-chavez, Mathematical Models in Population Biology and Epidemiology, Springer, 2012.
8. Raisinghania, M. D. (2019). *Ordinary and Partial Differential Equations* (Revised 21st ed.). S. Chand Publishing. ISBN: 9788121908837.

Suggested Readings:

1. Mathematical Modeling- J N Kapoor, New Age Publishers. Linear Algebra, Ramchandra Rao, P. Bhimasankar, Tata Mac Graw Hill.
2. Raisinghania, M. D. (2019). *Ordinary and Partial Differential Equations* (Revised 21st ed.). S. Chand Publishing. ISBN: 9788121908837.
3. "Inventory Control and Management" by Donald Waters





Online Resources:

1. <https://youtu.be/DUKQIPPNjpg?feature=shared>
2. <https://youtu.be/gSUgDpGWk-M?feature=shared>
3. <https://youtu.be/VzIBEcs1fj4?feature=shared>

Practical / Activities:

3. Assignment
4. Quiz/unit test

Sr. No.	List of Practical	Credit
1	Applications of a differential equation using the power series method around an ordinary point.	01
2	Applications of a differential equation using the Frobenius method around a regular singular point.	
3	Solve Bessel's equation using power series or Frobenius method.	
4	Simulate the basic SI model using numerical methods.	
5	Analyze the SIS model with a time-dependent transmission coefficient.	
6	Analyze the SIS model with a constant number of carriers.	
7	Simulate the SIR model using numerical methods.	
8	Study the impact of vaccination on epidemic spread using mathematical models.	
9	Perform sensitivity analysis on model parameters using numerical simulations.	
10	Calculate the Economic Order Quantity (EOQ) for a given set of data.	
11	Application of Determine the reorder point for a continuous review inventory system.	
12	Calculate the Economic Production Quantity (EPQ) for a given production scenario.	
13	Calculate the safety stock needed to maintain a desired service level.	
14	Application of Determine the order quantity in a periodic review inventory system.	





**GOKUL
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Approved By Govt. of Gujarat
(Recognized by UGC under Section 22 & 2(f) of 1956)
(Gujarat Private State University Act 4 of 2018)

Mapping of Course Outcomes (COs) with Program Outcomes (POs) and Program Specific Outcomes (PSOs):

Course Outcomes	Program Outcomes 1:-Less relevant, 2:- Mild relevant 3:- Highly relevant										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2
CO1	3	3	2	2		2		1		3	
CO2	3	1	2		1		2				2
CO3	2	2		1		1			1	2	
CO4	2	1	1	1			1				1



**Faculty of Science
Gokul Science College**

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COURSE STRUCTURE

Bachelor of Science

Botany

Under

National Education Policy (NEP-2020)



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PO No.	Program Outcome Description
PO1	Foundational Knowledge: Graduates will possess a strong foundation in the fundamental concepts, theories, and principles of their chosen discipline, as per the prescribed curriculum.
PO2	Practical Skills: Students will acquire practical skills relevant to their field, including laboratory techniques, data collection, analysis, and interpretation.
PO3	Critical Thinking: Graduates will develop critical thinking skills to analyze, evaluate, and solve scientific problems, applying logical reasoning and evidence-based approaches.
PO4	Effective Communication: Students will demonstrate effective communication skills, both orally and in writing, to convey scientific ideas and findings to different audiences.
PO5	Collaboration and Teamwork: Graduates will work collaboratively in teams, engaging in effective communication, cooperation, and coordination to accomplish shared objectives.
PO6	Information Literacy: Students will develop information literacy skills to access, evaluate, and utilize scientific information from diverse sources, including digital resources.
PO7	Ethical Awareness: Graduates will demonstrate ethical awareness and responsibility in scientific practice, understanding the importance of integrity, honesty, and ethical conduct.
PO8	Lifelong Learning: Students will develop a commitment to lifelong learning, staying updated with advancements in their field and engaging in continuous professional development.
PO9	Societal Impact: Graduates will recognize the social and ethical implications of scientific knowledge and contribute positively to society through their discipline.

PSO No.	Program Specific Outcome Description
PSO1	Botanical Knowledge and Diversity: Graduates of the B.Sc. Botany program will develop a comprehensive understanding of plant biology, including plant anatomy, physiology, taxonomy, and ecology. They will be able to identify and classify diverse plant species.
PSO2	Plant Conservation and Sustainable Practices: Graduates will demonstrate an understanding of plant conservation principles and possess skills to manage and protect plant ecosystems. They will promote sustainable practices, contribute to biodiversity conservation, and raise awareness about the importance of plant conservation.





**GOKUL GLOBAL UNIVERSITY
FACULTY OF SCIENCE
DEPARTMENT OF BOTANY**

Sr. No.	Course	Level	Semester	Course Type	Course Code	Course Name	Duration in Hrs.		Credit	Max. Marks		To tal
							Theory	Practical		CCE(Formative) (weekly test/ Assignment/ Attendance/ Practical/ Viva/ Group Discussion/ Quiz)	SEE (Sum mativ e)	
1	Certificate	UG	I	Discipline Specific Course (Major-1)	CPBOT101DSC	Introduction to Plant World	45	30	4	50	50	100
2				Discipline Specific Course (Major-2)	CPZOO101DSC	Non-Chordates I- Protista to Pseudocoelomates	45	30	4	50	50	100
3				Discipline Specific Course (Minor)	CPCHE101DSC/ CPMIC101DSC	General Chemistry-I/ Introduction to Microbial World	45	30	4	50	50	100
4				Multi-Disciplinary Course	CP101MDC	Basics of computer application	45	30	4	50	50	100
5				Ability Enhancement Course	CP101AEC	Communication Skills-1	30	---	2	25	25	50
6				Indian Knowledge System	CP101IKS	Indian Constitution	30	---	2	25	25	50
7				Skill Enhancement Course	CP101SE	Photography Basics	30	---	2	25	25	50
Total							270	120	22	275	275	550





GOKUL GLOBAL UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF BOTANY												
Sr. No.	Course	Level	Semester	Course Type	Course Code	Course Name	Duration in Hrs.		Credit	Max. Marks		Total
							Theory	Practical		CCE(Formative) (weekly test/ Assignment/ Attendance/ Practical/ Viva/ Group Discussion/ Quiz)	SEE (Summative)	
1	Certificate	UG	II	Discipline Specific Course (Major-1)	CPBOT201DSC	Morphology and tissue system in plant	45	30	4	50	50	100
2				Discipline Specific Course (Major-2)	CPZOO201DSC	Non-Chordates II coelomates	45	30	4	50	50	100
3				Discipline Specific Course (Minor)	CPCHE201DSC/ CPMIC201DSC	General Chemistry-II/ Systematics bacteriology	45	30	4	50	50	100
4				Multi-Disciplinary Course	CP201MDC	Basic Statistics	45	30	4	50	50	100
5				Ability Enhancement Course	CP201AEC	Communication Skills-2	30	---	2	25	25	50
6				Value added Course-I	CP201VAC	Fundamentals of Nutrition	30	---	2	25	25	50
7				Skill Enhancement Course	CP201SE	Cyber Security	30	---	2	25	25	50
Total							270	120	22	275	275	550





GOKUL GLOBAL UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF BOTANY												
Sr. No .	Course	Level	Se me ster	Course Type	Course Code	Course Name	Duration in Hrs.		Credit	Max. Marks		Total
							Theory	Practi cal		CCE(For mative) (weekly test/ Assignme nt/ Attendanc e/ Practical/ Viva/ Group Discussion / Quiz)	SEE (Summative)	
1	Diploma	UG	III	Discipline Specific Course (Major-1)	DPBOT301DSC	MYCOLOGY AND PHYTOPATHOLOGY	45	30	4	50	50	100
2				Discipline Specific Course (Major-2)	DPBOT302DSC	ARCHEGONIATE	45	30	4	50	50	100
3				Discipline Specific Course (Major-3)	DPCHE301DSC / DPMIC301DSC / DPZOO301DSC	ORGANIC CHEMISTRY/ MICROBIAL PHYSIOLOGY AND METABOLISM/ PRINCIPLES OF ECOLOGY	45	30	4	50	50	100
4				Multi-Disciplin ary Course	DP301MDC	ARTIFICIAL INTELLIGENCE(AI): - Knowledge Representation and Reasoning	45	30	4	50	50	100
5				Ability Enhancem ent Course	DP301AEC	CREATIVE WRITING ESSENTIAL	30	---	2	25	25	50
6				Indian Knowledg e System	DP301IKS	YOGA	30	---	2	25	25	50
7				Skill Enhancem ent Course	DP301SEC	PRESENTATION SKILLS	30	---	2	25	25	50
Tot al							270	120	22	275	275	550





GOKUL GLOBAL UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF BOTANY												
Sr. No .	Course	Level	Semester	Course Type	Course Code	Course Name	Duration in Hrs.		Credit	Max. Marks		Total
							Theory	Practical		CCE(Formative) (weekly test/ Assignment/ Attendance/ Practical/ Viva/ Group Discussion/ Quiz)	SEE (Summative)	
1	Diplo ma	UG	IV	Discipline Specific Course (Major-1)	DPBOT401DSC	ANATOMY OF ANGIOSPERMS	45	30	4	50	50	100
2				Discipline Specific Course (Major-2)	DPBOT402DSC	ECONOMIC BOTANY	45	30	4	50	50	100
3				Discipline Specific Course (Major-3)	DPCHE401DSC/ DPMIC401DSC/ DPZOO401DSC	INORGANIC CHEMISTRY/ MICROBIAL DIVERSITY/ COMPARATIVE ANATOMY OF VERTEBRATES	45	30	4	50	50	100
4				Discipline Specific Course (Minor)	DPCHE403DSC	INDUSTRIAL CHEMICAL AND ENVIRONMENT	45	30	4	50	50	100
5				Ability Enhancement Course	DP401AEC	PERSONALITY DEVELOPMENT	30	---	2	25	25	50
6				Value added Course-I	DP401VAC	SPORTS AND FITNESS	30	---	2	25	25	50
7				Skill Enhancement Course	DP401SEC	STRESS MANAGEMENT	30	---	2	25	25	50
Total							270	120	22	275	275	550





GOKUL GLOBAL UNIVERSITY, SIDHPUR

Programme Code		CPBOT		Programme Name	Certificate Programme of Botanical Science		
Course Code		CPBOT101DSC		Semester	I		
INTRODUCTION OF PLANT WORLD							
Course type:		Discipline Specific Course		Total Credit:	Theory	Practical	Total
					3	1	4
Teaching time (hours)		Examination Marking scheme					
Theory (hrs.)	Practical (hrs.)	Internal (Marks)		External (Marks)	Total (Marks)		
		Theory	Practical	Theory	Theory	Practical	Total
3 X 15 = 45	15X2=30	25	25	50	75	25	100

Pre-requisite : The students must have core subjects like Biology in their Higher Secondary level.

Rationale : Studying reproductive processes in diverse plants, alongside taxonomy, physiology, genetics, and biotechnology, deepens understanding of Botany's complexity.

Course Objective:

It is fascinating to study the wide spectrum of reproductive processes in algae, fungi, lichens, bryophytes, gymnosperms, and flowering plants. A student of Botany has been learning these aspects together with taxonomy, anatomy, plant pathology, plant breeding, microbiology, plant physiology, plant biochemistry, ecology, cytology, genetics, cytogenetics, molecular biology and plant biotechnology.

Course Outcome:

CO 1	Discuss the basics of virus discovery, evolution, and classification
CO 2	Discuss the basics of fungi discovery, evolution, and classification
CO 3	Discuss the basics of Bacteria discovery, evolution, and classification
CO 4	Discuss the basics of Fungi discovery, evolution, and classification





Unit	Topic	Content	Hours	Weightage
1		Diversity of plants and Microbes	15	33%
	1.1	Introduction to plant diversity, concept of plant kingdom, different systems of classification		
	1.2	Viruses: Physiochemical and biological characteristics, General structure. Bacteria: Archaeobacteria and Eubacteria General characteristics, structure and types.		
	1.3	Fungi: General characteristics, general structure and reproduction. Saccharomyces, Aspergillus, Agaricus Economic importance of Microbes in agriculture and industry		
2		Cyanobacteria and Algae	15	33%
	2.1	Cyanobacteria: Occurrence and range of thallus organization, Characteristic features, cell structure and heterocyst structure, Method of reproduction (general), Nostoc, Oscillatoria (life cycles)		
	2.2	Algae: Occurrence and range of thallus organization, Characteristic features, cell structure and types of reproduction		
	2.3	Economic importance of algae i.e. role of algae in environment, agriculture and industry. Ulothrix and Sargassum (Life cycles).		
3		Archegoniate plants	15	33%
	3.1	Bryophytes: Occurrence and range of thallus organization, Characteristic features. Riccia, Funaria. (Life cycles) Ecological and economical importance of bryophytes		
	3.2	Pteridophytes: Occurrence, Characteristic features. Psilotum, Selaginella, Equisetum, Nephrolepis. (Life cycles) Ecological and economical importance of Pteridophytes		
	3.3	Gymnosperms: Characteristic features, Cycas (life cycle). Ecological and economical importance of Gymnosperms		

Reference Books:

- Gangulee, S. C., Das, K.S, Dutta, C.D. and Kar, A.K. (1968) College Botany Vol. I and Vol. II
- Smith, G. M. - (1972) Cryptogamic Botany Vol. I and Vol. II . McGraw-Hill.
- Verma, J.P. - (1968) The Bacteria, Vikas Publications
- Clifton, A. (1950) Introduction to Bacteria, McGraw - Hill
- Parihar, N.S. -(1956) Bryophyta
- Parihar, N.S. -(1955) Pteridophyte
- Vashishta, B.R. -(1962) Botany for Degree Students: Vol. II Fungi





LIST OF PRACTICALS

1. Study of Simple and Compound microscope
2. EMs/Models of viruses (bacteriophage)
3. Types of Bacteria from temporary/permanent slides/photographs
4. Type study of cyanobacteria: Nostoc and Oscillatoria
5. Type study of algae: Ulothrix and Sargassum
6. Type study of fungi: Saccharomyces, Aspergillus and Agaricus
7. Type study of bryophytes: Riccia and Funaria
8. Type study of pteridophytes: Psilotum, Selaginella, Equisetum and Nephrolepis
9. Type study of gymnosperms: cycas

Reference Books:

- Gangulee, S. C., Das, K.S, Dutta, C.D. and Kar, A.K. (1968) College Botany Vol. I and Vol. II
- Kumar & Bendre, A TEXT BOOK OF PRACTICAL BOTANY VOL-1, Rastogi Publications

CO-PO & CO-PSO Mapping

Course outcome	Programme Outcome [3: High relevant, 2: Mild relevant, 1: less relevant]										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2
CO1	2	1	-	-	1	-	-	2	-	3	2
CO2	1	2	1	1	-	2	-	-	2	2	1
CO3	2	1	1	-	-	-	2	2	-	2	2
CO4	2	3	-	-	-	2	1	-	-	3	1





Gujarat Private State University Act 4 of 2016

GOKUL GLOBAL UNIVERSITY, SIDHPUR							
Programme Code		CPBOT		Programme Name	Certificate Programme of Botanical Science		
Course Code		CPBOT201DSC		Semester	II		
MORPHOLOGY AND TISSUE SYSTEM OF PLANT							
Course type:		Discipline Specific Course		Total Credit:	Theory	Practical	Total
					3	1	4
Teaching time (hours)		Examination Marking scheme					
Theory (hrs.)	Practical (hrs.)	Internal (Marks)		External (Marks)	Total (Marks)		
		Theory	Practical	Theory	Theory	Practical	Total
3 X 15 = 45	15X2=30	25	25	50	75	25	100

Pre-requisite: The students must have core subjects like Biology in their Higher Secondary level.

Rationale: Clearing the concepts of specialized cells that work together to perform specific functions, forming organs like leaves, roots, leaf, bract, peduncle & inflorescences.

Course Objective: Plant tissue is a collection of similar cells performing an organized function for the plant. Each plant tissue is specialized for a unique purpose, and can be combined with other tissues to create organs such as leaves, flowers, stems and roots. The following is a brief outline of plant tissues, and their functions within the plant.

Course Outcome:

CO 1	Recognize relationships between plant embryonic structures and mature plant morphology
CO 2	Describe the organization and functions of plant organs (roots, stems, and leaves), and relate morphology to function
CO 3	Describe the features and functions of plant tissues, identify and describe cell types associated with each tissue, and relate cell and tissue morphology with function
CO 4	Differentiate between monocot and eudicot body plan characteristics, including organization of the vascular and ground tissues in stems and roots





Unit	Topic	Content	Hours	Weightage
1		Diverse morphological features in Angiosperms	15	33%
	1.1	Vegetative, floral & fruit morphology:		
	1.2	Root, stem, leaf, bract, peduncle & inflorescences,		
	1.3	Flower, fruit and seed		
2		Plant tissue system (meristem & simple tissues)	15	33%
	2.1	Cell wall: Layers, functions, formation of cell wall. Inter-cellular communications: Plasmodesmata. Pits: Structure, types & functions.		
	2.2	Meristematic tissues: Characteristic features, types of meristems. Procambium & vascular cambium: Structure & functions Cork cambium: Structure of periderm & formation		
	2.3	Permanent simple tissue: Structure, types and functions of parenchyma, collenchyma, Sclerenchyma		
3		Complex and Reproductive tissues	15	33%
	3.1	Complex Tissue: Conducting elements Xylem & Phloem, secretory tissue. Organs: Structure of monocot & dicot root, stem and leaf		
	3.2	Adaptive & protective system: Epidermis, cuticle – Structure, Variations and functions. Stomata and trichomes: Structure, types and functions.		
	3.3	Structural organization of flower: Structure of anther, structure of ovules & the types, embryo sac.		

Reference Books:

- Gangulee, H.C., Das, K.S, Dutta, C.D. and Kar, A.K. (1968) College Botany Vol. III
- Dutta A.C. - (1964) Botany for degree students.
- Hickey M, King. C.(2002) The Cambridge Illustrated Glossary of Botanical Terms, Cambridge University press.
- Sporne K.R. - (1968) The morphology of vascular plants.
- Sharma O.P - (1968) Plant Taxonomy
- Pandey B.P. - (1968) Taxonomy of Angiosperms.





- Vashishta P.C - (1968) Taxonomy of Angiosperms.
- K. Esau - (1961) Plant Anatomy.
- A Fahn - (1968) Plant Anatomy.
- B.P. Pandey - (1978) Plant Anatomy.

LIST OF PRACTICALS

- Root Morphology and Morphology of Stem
- Morphology Leaf – I & II
- Morphology of Bracts, Peduncle, Inflorescence, And Flower – I, II, III
- Angiosperms Classification & Morphological description of Plant
- Study of tissue types in Dicot & Monocot stem and differences between them.
- Study of Dicot & Monocot root including differences with stem.
- Study the structure of leaf
- Study of variations in the different plant tissues.

Reference Books:

- Kumar & Bendre, A TEXT BOOK OF PRACTICAL BOTANY VOL-2, Rastogi Publications.

CO-PO & CO-PSO Mapping

Course outcome	Programme Outcome [3: High relevant, 2: Mild relevant, 1: less relevant]										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2
CO1	2	2	-	-	1	-	-	2	-	3	1
CO2	1	3	1	-	-	2	-	-	2	2	2
CO3	2	2	-	1	1	-	2	2	-	2	2
CO4	2	2	-	-	-	2	1	-	-	2	1





GOKUL GLOBAL UNIVERSITY, SIDHPUR

Program Code		DPBOT		Program Name	Diploma Program of Botanical Science		
Course Code		DPBOT301DSC		Semester	III		
MYCOLOGY AND PHYTOPATHOLOGY							
Course type:		Discipline Specific Course		Total Credit:	Theory	Practical	Total
					3	1	4
Teaching time (hours)		Examination Marking scheme					
Theory (hrs.)	Practical (hrs.)	Internal (Marks)		External (Marks)	Total (Marks)		
		Theory	Practical	Theory	Theory	Practical	Total
3 X 15 = 45	15X2=30	25	25	50	75	25	100

Pre-requisite: The students must have core subjects like Botany, Chemistry, Microbiology and Zoology in their First and second semester level

Rationale: Knowledge of the fundamentals of fungal diversity, their roles in ecosystems, plant diseases, and applications in industry, agriculture, and medicine.

Course Objective:

The objective of the course to impart fundamental knowledge about some selected aspects of botany. The topics include General characteristics, Classification, and life cycles of major fungal groups (Phycomycetes, Ascomycetes, Basidiomycetes). It also explores Allied fungi, Lichens, and Mycorrhizae, emphasizing their roles in ecology, industry, and agriculture. Phytopathology, including host-pathogen relationships and disease management, is also addressed.

Course Outcome:

CO 1	The student will be able to understand the characteristics, reproduction, and classification of fungi.
CO 2	The student understands and apply the fundamental characteristics, classification, occurrence, and economic importance of Allied Fungi, Lichens, and Mycorrhiza, and explore their applications in food industry, medicine, and agriculture.
CO 3	Students will be able to understand concepts of plant pathology, general symptoms of plant diseases, geographical distribution, host-pathogen relationships, and specific aspects of selected bacterial and fungal diseases.





Unit	Content	Hours	Weightage
1	Fungi-1	15	34%
	General characteristics; Affinities with plants. Thallus organization; Cell wall composition; Nutrition; Classification (Ainsworth).		
	Phycomycetes: Zygomycete: Characteristic features. Thallus organization; Reproduction; Life cycle and classification with reference to Rhizopus.		
	Ascomycetes: General characteristics (asexual and sexual fruiting bodies); Life cycle and classification with reference to Claviceps.		
	Basidiomycetes: General characteristics; Life cycle and Classification with reference to Agaricus.		
2	Fungi-2	15	33%
	Allied Fungi: General characteristics; Status of Slime molds, Classification; Occurrence; Types of plasmodia; Types of fruiting bodies.		
	Lichens: Occurrence; General characteristics; Classification; Study of thallus (morphological and anatomical), Reproduction; Economic importance.		
	Mycorrhiza: Ectomycorrhiza, Endomycorrhiza and their significance.		
3	Phytopathology	15	33%
	Definition, scope, and importance		
	Terms and concepts; General symptoms.		
	Geographical distribution of diseases.		
	Host-Pathogen relationships.		
	Pathogen, Symptoms, Dissemination, Disease cycle and control measures of following plant diseases: Bacterial diseases – Citrus canker.		
	Fungal diseases – White rust of crucifers, Black rust of wheat.		





Reference Books:

1. Agrios, G.N. (1997) Plant Pathology, 4th edition, Academic Press, U.K.
2. Alexopoulos, C.J., Mims, C.W., Blackwell, M. (1996). Introductory Mycology, John Wiley & Sons (Asia) Singapore. 4th edition.
3. O.P. Sharma (1997) TEXTBOOK OF THALLOPHYTES, 2nd edition, Med Tech Science Press

LIST OF PRACTICALS

1. Rhizopus: study of asexual stage from temporary mounts and sexual structures through permanent slides/photographs/charts.
2. Claviceps: study of asexual stage from temporary mounts. Study of Sexual stage from permanent slides/photographs/charts.
3. Agaricus: Specimens of button stage and full-grown mushroom; sectioning of gills of Agaricus. Permanent slides/photographs/charts.
4. Lichens: Study of growth forms of lichens (crustose, foliose and fruticose) on different substrates
5. Study of thallus and reproductive structure (apothecium) through Permanent slides/photographs/charts/specimen.
6. Mycorrhizae: Ectomycorrhiza and Endomycorrhiza (Photographs).
7. Phytopathology: Study of Plant diseases: Citrus Canker, White rust of crucifers and Black rust of wheat.

Reference Books:

1. N. Arumugam, Annie Ragland, V. Kumaresan, Fungi and Plant Pathology 3RD edition, Saras Publication
2. Dubey, R.C., Maheshwari, D.K., (2000). "Practical Mycology" S. Chand Publishing, New Delhi.
3. Mukherji, K.G., Chamola, B.P., Upreti, D.K., Upadhyay, R.K., "Biology of Lichen" Aravalli Books International Publication, New Delhi.
4. Bendre A.M., Ashok Kumar, A Textbook of Practical Botany 1, Rastogi Publication, New Delhi.





**GOKUL
GLOBAL
UNIVERSITY**

Approved By Govt. of Gujarat
(Recognized by UGC under Section 22 & 2(f) of 1956)
(Gujarat Private State University Act 4 of 2018)

CO-PO & CO-PSO Mapping

Course outcome	Program Outcome											
	[3: High relevant, 2: Mild relevant, 1: less relevant]											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9		PSO1	PSO2
CO1	2	2	-	-	1	1	-	1	-		2	2
CO2	2	3	2	-	-	2	-	1	2		2	1
CO3	1	2	1	1	-	-	2	2	-		3	2



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GOKUL GLOBAL UNIVERSITY, SIDHPUR

program Code		DPBOT		Program Name	Diploma Program of Botanical Science		
Course Code		DPBOT302DSC		Semester	III		
ARCHEGONIATE							
Course type:		Discipline Specific Course		Total Credit:	Theory	Practical	Total
					3	1	4
Teaching time (hours)		Examination Marking scheme					
Theory (hrs.)	Practical (hrs.)	Internal (Marks)		External (Marks)	Total (Marks)		
		Theory	Practical	Theory	Theory	Practical	Total
3 X 15 = 45	15X2=30	25	25	50	75	25	100

Pre-requisite : The students must have core subjects like Botany, Chemistry, Microbiology and Zoology in their First and second semester level.

Rationale : Clearing the concepts on completion of this course the student will be able to basic Develop critical understanding on morphology, anatomy and reproduction of Bryophytes, Pteridophytes and Gymnosperms.

Course Objective:

The objective of the course to impart fundamental knowledge about some selected aspects of botany. The topics include General characteristics, morphology, anatomy and reproduction, Economic importance of Bryophytes, Pteridophytes and Gymnosperms.

Course Outcome:

CO 1	Student will be able to learn about general characteristics, land adaptations, classification, life cycle, morphology, anatomy, reproduction, and economic importance of Bryophytes.
CO 2	Student will be able to learn about the general characteristics, economic importance, and taxonomy of Pteridophytes, specifically Equisetum and Nephrolepis, including their morphology, anatomy
CO 3	Students will be able to understand the general characteristics, classification, and economic importance of Gymnosperms, while also describing their affinities with Pteridophytes and Angiosperms, and the morphology and anatomy of Cycas.





Content

Unit	Description in detail	Credit	Weightage
I	Bryophytes	1	30 %
	General characteristics of Bryophytes; Adaptations to land habit; Classification (Rothmaler's); Alternation of generations.		
	Classification (up to family), morphology, anatomy and reproduction of Marchantia.		
	Classification (up to family), morphology, anatomy and reproduction of Funaria		
	Vegetative reproduction and economic importance of bryophytes.		
II	Pteridophytes	1	45 %
	General characteristics of Pteridophytes; Classification (Smith); Economic importance of Pteridophytes.		
	Classification (up to family), morphology, anatomy and reproduction of Equisetum (Developmental details not to be included).		
	Classification (up to family), morphology, anatomy and reproduction of Nephrolepis (Developmental details not to be included).		
III	Gymnosperms	1	33 %
	General characteristics, classification of Gymnosperms (Sporne, 1965).		
	Affinities with Pteridophytes and Angiosperms.		
	Morphology, anatomy (leaflets and coralloid root) and reproduction of Cycas (Developmental details not to be included).		
	Economic importance of Gymnosperms.		

Reference Books:

1. Vashistha, P.C., Sinha, A.K., Kumar, A. (2010).” Botany for Degree Students PTERIDOPHYTA”. S. Chand Publication. Delhi, India.
2. Bhatnagar, S.P. & Moitra, A. (1996). Gymnosperms. New Age International (P) Ltd Publishers, New Delhi, India.
3. Vashishta B.R., Sinha A.K., Kumar A., “Botany for Degree Students BRYOPHYTA” S. Chand Publication. Delhi, India.
4. Vashistha, P.C., Sinha, A.K., Kumar, A. (2010).” Botany for Degree Students GYMNOSPERMS”. S. Chand Publication. Delhi, India.
5. Singh V., Pande P.C., Jain D.K., “A Textbook of Botany ARCHEGONIATE” S. Chand Publication. Delhi, India.





LIST OF EXPERIMENTS

1. Marchantia- Morphology of thallus, whole mount of rhizoids & scales, vertical section of thallus through Gemma cup, whole mount of Gemmae (temporary slides), vertical section of Antheridiophore, Archegoniophore, longitudinal section of Sporophyte (all permanent slides).
2. Funaria- Morphology, whole mount of leaf, antheridia and archegonial heads, operculum, peristome, annulus, spores (temporary slides); permanent slides showing antheridia and archegonial heads; longitudinal section of capsule and protonema.
3. Equisetum- Morphology, transverse section of internode, longitudinal section of strobilus, transverse section of strobilus, whole mount of spores (wet and dry) (temporary slide), transverse section of rhizome (permanent slide).
4. Nephrolepis- Morphology, vertical section of sporophyll, whole mount of sporangium, whole mount of spores (temporary slides), transverse section of rachis, whole mount of prothallus with sex organs and young sporophyte (permanent slide).
5. Cycas- Morphology (coralloid roots, bulbil, leaf, microsporophyll, megasporophyll), vertical section of leaflet, whole mount of spores (temporary slides), vertical section of microsporophyll, longitudinal section of ovule (permanent slide).

Reference Books:

- Bendre A.M., Ashok Kumar, A Textbook of Practical Botany 1, Rastogi Publication, New Delhi.

CO-PO & CO-PSO Mapping

Course outcome	Program Outcome											
	[3: High relevant, 2: Mild relevant, 1: less relevant]										PSO1	PSO2
PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9				
CO1	2	2	-	-	1	1	-	1	-		2	2
CO2	2	3	2	-	-	2	-	1	2		2	1
CO3	1	2	1	1	-	-	2	2	-		3	2





GOKUL GLOBAL UNIVERSITY, SIDHPUR

Program Code		DPBOT		Program Name	Diploma Program of Botanical Science		
Course Code		DPBOT401DSC		Semester	IV		
ANATOMY OF ANGIOSPERMS							
Course type:		Discipline Specific Course		Total Credit:	Theory	Practical	Total
					3	1	4
Teaching time (hours)		Examination Marking scheme					
Theory (hrs.)	Practical (hrs.)	Internal (Marks)		External (Marks)	Total (Marks)		
		Theory	Practical		Theory	Theory	Practical
3 X 15 = 45	15X2=30	25	25	50	75	25	100

Pre-requisite : The students must have core subjects like Botany, Chemistry, Microbiology and Zoology in their First and second semester level.

Rationale : On completion of this course the student will be able to develop an understanding of concepts and fundamentals of plant anatomy.

Course Objective:

1. To discuss important results on Classification of tissues, types of vascular bundles, Evolution concept of organization of shoot and root apex, Secondary growth in plants.

Course Outcome:

CO 1	The student will be able to know different kind of tissue systems and its classification, anatomical features of monocot & dicot leaf, stem, root.
CO 2	They can analyse the structure, organization, and function of plant meristems and apical tissues, also theories of shoot and root apex organization, as well as the specialized epidermal structures such as trichomes and stomata and its functions.
CO 3	The student will be able to develop understanding about cambium, secondary growth and wood anatomy





Content

Unit	Description in detail	Credit	Weightage
I	Anatomy	1	34 %
	The three tissue systems, types of cells and tissues.		
	Classification of tissues; Simple and complex tissues; tracheary elements and sieve elements.		
	Types of vascular bundles; Structure of dicot & monocot stem and leaf.		
	Ergastic substances (starch grains of Potato & Wheat, Aleurone layer of Maize, Aleurone crystal of Castor seed), Hydathodes, Cavities, Cystolith and Laticifers.		
II	Meristems	1	33 %
	Definition & characteristics of meristem, Evolution concept of organization of shoot apex (Apical cell theory, Histogen theory and Tunica Corpus theory).		
	Organization of root apex (Histogen theory, Koper-Kappe theory and Quiescent center theory).		
	Epidermal tissue system; cuticle, epicuticular waxes.		
III	Secondary growth	1	33 %
	Structure, function and activity of cambium; Secondary growth definition and types, normal and anomalous.		
	Secondary growth in Sunflower stem and root.		
	Anomalous Secondary growth in Salvadora stem and Tinospora aerial root.		
	Sapwood and heartwood; Ring and diffuse porous wood; Tyloses, Periderm and Lenticels.		

Reference Books:

1. Dickison, W.C. (2000). Integrative Plant Anatomy. Harcourt Academic Press, USA.
2. Fahn, A. (1974). Plant Anatomy. Pergmon Press, USA.





LIST OF EXPERIMENTS

Practical / Activities:

- 1) Study of anatomical details through permanent slides/temporary stain mounts/ macerations/ museum specimens with the help of suitable examples.
- 2) Ergastic substances (Aleurone layer of Maize, Aleurone crystal of Castor seed), Hydathodes, Cavities, Cystolith (Ficus leaf).
- 3) Apical meristem of root and shoot.
- 4) Xylem: Tracheary elements-tracheids, vessel elements; thickenings (Sunflower & Cucurbita stem).
- 5) Wood: ring porous; diffuse porous; tyloses; heart- and sapwood (chart).
- 6) Phloem: Sieve tubes-sieve plates; companion cells (Cucurbita stem).
- 7) Epidermal system: stomata types (Dicot & Monocot); trichomes: non-glandular (Abutilon/Cotton), glandular (Ocimum), Periderm (PS) & Lenticels (PS).
- 8) Root: Secondary growth (Sunflower root & aerial root of Tinospora).
- 9) Stem: secondary growth (Sunflower & Salvadora stem).

Reference Books:

1. Raven, P. H., Evert, R. F., & Eichhorn, S. E. (1999). "Biology of Plants." W.H. Freeman and Company

CO-PO & CO-PSO Mapping

Course outcome	Program Outcome											
	[3: High relevant, 2: Mild relevant, 1: less relevant]											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9		PSO1	PSO2
CO1	2	2	-	-	1	1	-	1	-		2	2
CO2	2	3	2	-	-	2	-	1	2		2	1
CO3	1	2	1	1	-	-	2	2	-		3	2





Gujarat Private University Act 4 of 2016

GOKUL GLOBAL UNIVERSITY, SIDHPUR							
Program Code		DPBOT		Program Name	Diploma Program of Botanical Science		
Course Code		DPBOT402DSC		Semester	IV		
ECONOMIC BOTANY							
Course type:		Discipline Specific Course		Total Credit:	Theory	Practical	Total
					3	1	4
Teaching time (hours)		Examination Marking scheme					
Theory (hrs.)	Practical (hrs.)	Internal (Marks)		External (Marks)	Total (Marks)		
		Theory	Practical	Theory	Theory	Practical	Total
3 X 15 = 45	15X2=30	25	25	50	75	25	100

Pre-requisite : The students must have core subjects like Botany, Chemistry, Microbiology and Zoology in their First and second semester level.

Rationale : On completion of this course the student will be able to Increase the awareness and appreciation of plants & plant products encountered in everyday life and appreciate the diversity of plants and the plant products in human use.

Course Objective:

1. To discuss important results on Classification of economic important plants based on their uses and Introduction, Origin, cultivation, morphology, family, scientific name, useful parts, chemical constituents and uses of plants.

Course Outcome:

CO 1	Understand core concepts of Economic Botany and relate with environment, populations, communities, and ecosystems.
CO 2	Develop critical understanding on the evolution of concept of organization of apex new crops/varieties, importance of germplasm diversity, issues related to access and ownership
CO 3	Develop a basic knowledge of taxonomic diversity and important families of useful plants.





Content

Unit	Description in detail	Credit	Weightage
I	Plant Resources-1	1	34 %
	Introduction of plant resources.		
	Concept of centers of origin, their importance with reference to Vavilov's work.		
	Classification of economic important plants based on their uses.		
	Origin, morphology, processing and uses of Wheat and Rice, Brief account of millets.		
II	Plant Resources- 2	1	33 %
	Introduction, Origin, cultivation, morphology, family, scientific name, useful parts, chemical constituents and uses of Chick pea and Pigeon pea.		
	Introduction, Origin, cultivation, morphology, family, scientific name, useful parts, chemical constituents and uses of Potato.		
	Introduction, Origin, cultivation, morphology, family, scientific name, useful parts, chemical constituents and uses of spices: Clove and Black Pepper		
III	Plant Resources- 3	1	33 %
	Introduction, Origin, cultivation, morphology, family, scientific name, useful parts, chemical constituents and uses of Groundnut and Mustard.		
	Introduction, Origin, cultivation, morphology, family, scientific name, useful parts, chemical constituents and uses of Fennel.		
	Introduction, Origin, cultivation, morphology, family, scientific name, useful parts, chemical constituents and uses of Tea.		
	Introduction, Origin, cultivation, morphology, family, scientific name, useful parts, chemical constituents and uses of Cotton and Jute.		

Reference Books:

1. Kochhar, S.L. (2012). Economic Botany in Tropics, MacMillan & Co. New Delhi, India.
2. Wickens, G.E. (2001). Economic Botany: Principles & Practices. Kluwer Academic Publishers, The Netherlands.





LIST OF EXPERIMENTS

Practical / Activities:

Write Scientific name, Family, Useful part, Chemical constituents, economic important and draw labelled diagram of plant:

1. Cereals: • Wheat (habit sketch, starch grains, micro-chemical tests).
• Rice (habit sketch, study of paddy and grain, starch grains, micro-chemical tests).
2. Legumes: • Chick pea and Pigeon pea (habit, fruit, seed structure, micro-chemical tests).
3. Sources of oils and fats: • Mustard and Groundnut –plant specimen, seeds; tests for fats in crushed seeds.
4. Sources of sugars and starches: • Sugarcane • Potato: Potato tuber morphology, w.m. starch grains, Iodine test).
5. Spices: • Black pepper (habit) • Fennel (habit) and •Clove (habit).
6. Beverages: • Tea (plant specimen and tea leaves).
7. Fiber-yielding plants: • Cotton (specimen, whole mount of seed to show lint and fuzz; whole mount of fiber and test for cellulose), • Jute (specimen, transverse section of stem, test for lignin on transverse section of stem and fiber).

Reference Books:

1. Raven, P. H., Evert, R. F., & Eichhorn, S. E. (1999). "Biology of Plants." W.H. Freeman and Company

CO-PO & CO-PSO Mapping

Course outcome	Program Outcome											
	[3: High relevant, 2: Mild relevant, 1: less relevant]											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9		PSO1	PSO2
CO1	2	2	-	-	1	1	-	1	-		2	2
CO2	2	3	2	-	-	2	-	1	2		2	1
CO3	1	2	1	1	-	-	2	2	-		3	2



COURSE STRUCTURE

Bachelor of Science Chemistry

Under National Education Policy (NEP)-2020



**Faculty of Science
Gokul Science College**

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BACHELOR OF SCIENCE PROGRAM OUTCOMES (PO)

PO NO.	PROGRAM OUTCOME DESCRIPTION
PO1	FOUNDATIONAL KNOWLEDGE: GRADUATES WILL POSSESS A STRONG FOUNDATION IN THE FUNDAMENTAL CONCEPTS, THEORIES, AND PRINCIPLES OF THEIR CHOSEN DISCIPLINE, AS PER THE PRESCRIBED CURRICULUM.
PO2	PRACTICAL SKILLS: STUDENTS WILL ACQUIRE PRACTICAL SKILLS RELEVANT TO THEIR FIELD, INCLUDING LABORATORY TECHNIQUES, DATA COLLECTION, ANALYSIS, AND INTERPRETATION.
PO3	CRITICAL THINKING: GRADUATES WILL DEVELOP CRITICAL THINKING SKILLS TO ANALYZE, EVALUATE, AND SOLVE SCIENTIFIC PROBLEMS, APPLYING LOGICAL REASONING AND EVIDENCE-BASED APPROACHES.
PO4	EFFECTIVE COMMUNICATION: STUDENTS WILL DEMONSTRATE EFFECTIVE COMMUNICATION SKILLS, BOTH ORALLY AND IN WRITING, TO CONVEY SCIENTIFIC IDEAS AND FINDINGS TO DIFFERENT AUDIENCES.
PO5	COLLABORATION AND TEAMWORK: GRADUATES WILL WORK COLLABORATIVELY IN TEAMS, ENGAGING IN EFFECTIVE COMMUNICATION, COOPERATION, AND COORDINATION TO ACCOMPLISH SHARED OBJECTIVES.
PO6	INFORMATION LITERACY: STUDENTS WILL DEVELOP INFORMATION LITERACY SKILLS TO ACCESS, EVALUATE, AND UTILIZE SCIENTIFIC INFORMATION FROM DIVERSE SOURCES, INCLUDING DIGITAL RESOURCES.
PO7	ETHICAL AWARENESS: GRADUATES WILL DEMONSTRATE ETHICAL AWARENESS AND RESPONSIBILITY IN SCIENTIFIC PRACTICE, UNDERSTANDING THE IMPORTANCE OF INTEGRITY, HONESTY, AND ETHICAL CONDUCT.
PO8	LIFELONG LEARNING: STUDENTS WILL DEVELOP A COMMITMENT TO LIFELONG LEARNING, STAYING UPDATED WITH ADVANCEMENTS IN THEIR FIELD AND ENGAGING IN CONTINUOUS PROFESSIONAL DEVELOPMENT.



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PO9	SOCIETAL IMPACT: GRADUATES WILL RECOGNIZE THE SOCIAL AND ETHICAL IMPLICATIONS OF SCIENTIFIC KNOWLEDGE AND CONTRIBUTE POSITIVELY TO SOCIETY THROUGH THEIR DISCIPLINE.

BACHELOR OF SCIENCE PROGRAM SPECIFIC OUTCOMES (PSO)

B.SC. CHEMISTRY:

PSO NO.	PROGRAM SPECIFIC OUTCOME DESCRIPTION
PSO1	CHEMICAL KNOWLEDGE AND APPLICATION: GRADUATES OF THE B.SC. CHEMISTRY PROGRAM WILL POSSESS A COMPREHENSIVE UNDERSTANDING OF THE PRINCIPLES AND THEORIES OF CHEMISTRY. THEY WILL APPLY THIS KNOWLEDGE TO ANALYZE CHEMICAL PHENOMENA, CONDUCT EXPERIMENTS, AND SOLVE COMPLEX CHEMICAL PROBLEMS.
PSO2	LABORATORY SKILLS AND SAFETY: GRADUATES WILL DEMONSTRATE PROFICIENCY IN LABORATORY TECHNIQUES, INCLUDING CHEMICAL SYNTHESIS, ANALYSIS, AND INSTRUMENTATION. THEY WILL PRIORITIZE SAFETY PROTOCOLS, ADHERE TO ETHICAL PRACTICES, AND EFFECTIVELY COMMUNICATE EXPERIMENTAL FINDINGS.



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GOKUL GLOBAL UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF CHEMISTRY												
Sr. No.	Course	Level	Semester	Course Type	Course Code	Course Name	Duration in Hrs.		Credit	Max. Marks		Total
							Theory	Practical		CCE(For mative) (weekly test/ Assignment/ Attendance/ Practical/ Viva/ Group Discussion / Quiz)	SEE (Summative)	
1	Certificate	UG	I	Discipline Specific Course (Major-1)	CPCHE101DSC	General Chemistry-I	45	30	4	50	50	100
2				Discipline Specific Course (Major-2)	CPPHY101DSC/ CPBOT101DSC/ CPMIC101DSC	Mechanics and Basic Electronics (MAE)/ Introduction to Plant world/ Introduction to microbial world	45	30	4	50	50	100
3				Discipline Specific Course (Minor)	CPMAT101DSC/ CPZOO101DSC	Differential Calculus / Non-Chordates I: Protista to Pseudocoelomates	45	30	4	50	50	100
4				Multi-Disciplinary Course	CP101MDC	Basics of computer application	45	30	4	50	50	100
5				Ability Enhancement Course	CP101AEC	Communication Skills-1	30	---	2	25	25	50
6				Indian Knowledge System	CP101IKS	Fundamentals of Nutrition	30	---	2	25	25	50
7				Skill Enhancement Course	CP101SE	Photography Basics	30	---	2	25	25	50
Total							270	120	22			550



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GOKUL GLOBAL UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF PHYSICS												
Sr. No.	Course	Level	Semester	Course Type	Course Code	Course Name	Duration in Hrs.		Credit	Max. Marks		Total
							Theory	Practical		CCE(Formative) (weekly test/ Assignment/ Attendance/ Practical/ Viva/ Group Discussion/ Quiz)	SEE (Summative)	
1	Certificate	UG	II	Discipline Specific Course (Major-1)	CPCHE201DSC	General Chemistry-II	45	30	4	50	45	30
2				Discipline Specific Course (Major-2)	CPPHY201DSC/ CPBOT201DSC/ CPMIC201DSC	Wave, Electronics & Semiconductor Device (WES)/ Morphology and tissue system in plants/ Systematic bacteriology	45	30	4	50	45	30
3				Discipline Specific Course (Minor)	CPMAT201DSC/ CPZOO201DSC	Integral Calculus & Differential Equation/ Non-Chordates li: Coelomates	45	30	4	50	45	30
4				Multi-Disciplinary Course	CP201MDC	Basic Statistics	45	30	4	50	45	30
5				Ability Enhancement Course	CP201AEC	Communication Skills-2	30	---	2	25	25	50
6				Indian Knowledge System	CP201IKS	Indian Constitution	30	---	2	25	25	50
7				Skill Enhancement Course	CP201SE	Cyber Security	30	---	2	25	25	50
Total							270	120	22			550



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GOKUL GLOBAL UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF CHEMISTRY												
Sr. No.	Course	Level	Seme ster	Course Type	Course Code	Course Name	Duration in Hrs.		Credit	Max. Marks		Total
							Theory	Practic al		CCE(Forma tive) (weekly test/ Assignment/ Attendance/ Practical/ Viva/ Group Discussion/ Quiz)	SEE (Summ ative)	
1	Diploma	UG	III	Discipline Specific Course (Major-1)	DPCHE 301DSC	Organic Chemistry	45	30	4	50	50	100
2				Discipline Specific Course (Major-2)	DPCHE 302DSC	Physical Chemistry	45	30	4	50	50	100
3				Discipline Specific Course (Minor)	DPPHY 301DSC /DPMIC 301DSC /DPBO T301DS C	Optics modern physics and Laser/ Micronial physiology and Metabolism/ Mycology and Phytopathology	45	30	4	50	50	100
4				Multi Disciplinary Course	DP301 MDC	Artificial Intelligence	45	30	4	50	50	100
5				Ability Enhancement Course	DP301A EC	Creative Writing Essential	30	---	2	25	25	50
6				Indian Knowledge System	DP301I KS	Yoga	30	---	2	25	25	50
7				Skill Enhancement Course	DP301S E	Presentaion Skills	30	---	2	25	25	50
Total							270	120	22	275	275	550



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GOKUL GLOBAL UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF CHEMISTRY

GOKUL GLOBAL UNIVERSITYFACULTY OF SCIENCEDEPARTMENT OF CHEMISTRY												
Sr. No.	Course	Level	Semester	Course Type	Course Code	Course Name	Duration in Hrs.		Cred it	Max. Marks		Total
							Theory	Practical			CCE(Forma tive) (weekly test/ Assignment/ Attendance/ Practical/ Viva/ Group Discussion/ Quiz)	
1	Diploma	UG	IV	Discipline Specific Course (Major-1)	DPCHE401DSC	Inorganic Chemistry	45	30	4	50	50	100
2				Discipline Specific Course (Major-2)	DPCHE402DSC	Analytical Chemistry	45	30	4	50	50	100
3				Discipline Specific Course (Minor)	DPPHY401DSC/ DPMIC401DSC/ DPBOT401DSC	Electromagnetism, electronics and plasma physics/ Microbial Diversity/ Anatomy of Angiosperms	45	30	4	50	50	100
4				Minor	DPCHE403DSC	INDUSTRIAL CHEMICALS AND ENVIRONMENT	45	30	4	50	50	100
5				Ability Enhancement Course	DP401AEC	Personality Development	30	---	2	25	25	50
6				Value added Course-I	DP401VAC	Sports and Fitness	30	---	2	25	25	50
7				Skill Enhancement Course	DP401SE	Stress Management	30	---	2	25	25	50
Total							270	120	22	275	275	550



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GOKUL GLOBAL UNIVERSITY, SIDHPUR

Programme Code		CPPHY		Programme Name		Certificate Programme of Physical Science		
Course Code		CPCHE101DSC		Semester		I		
General Chemistry 1								
Course type:		Discipline Specific Course		Total Credit:		Theory	Practical	Total
						3	1	4
Teaching time (hours)		Examination Marking scheme						
Theory (hrs.)	Practical (hrs.)	Internal (Marks)		External (Marks)		Total (Marks)		
		Theory	Practical	Theory	Practical	Theory	Practical	
3 X 15 = 45	15X2=30	50	20	50	30	100	50	

Pre-requisite: The students must have core subject like Chemistry in their Higher Secondary level.

Rationale : The bachelor of science industrial chemistry is a popular course that allows students with a basic understanding of chemical compounds and their reactive tendencies to investigate how each chemical enhances or replenishes other sources when combined, resulting in better and stronger commodities.

Course Objective:

Students will gain an understanding of: chemical reactions and strategies to balance them. The relative quantities of reactants and products. The fundamental properties of atoms, molecules, and the various states of matter.

Course Outcome:

- Explain theoretical principles underlying molecular structure, bonding and properties
- Describe the importance and relevance of Hard and soft materials and also their characterization, properties and uses in engineering applications.
- Distinguish the difference between the different orders of reaction and apply accordingly.
- Utilize different thermo dynamical laws to explain course of reactions.
- Apply the different spectroscopic techniques to explain the inner & surface characteristic of molecules.



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Unit	Topic	Content	Hours	Weightage
1		General introduction of chemistry	15	33%
	1.1	Introduction to Chemical Sciences, Basics includes: Periodic properties, Effective nuclear charge, penetration of orbitals, variations of s, p, d and f orbital energies of atoms in the periodic table, electronic configurations, atomic and ionic sizes, ionization energies, electron affinity and electronegativity, polarizability, oxidation states, coordination numbers and geometries, hard soft acids and bases, molecular geometries Structure of an Atom, Formation of molecules –Kossel – Lewis approach to Chemical Bonding, Lewis Representations of Simple Molecules and Ions, Types of Bonds.		
		Organic		
2		Structure and Bonding	15	33%
	2.1	Intramolecular forces (dipole-dipole interaction, van der Waals forces), Electromeric effect, Inductive effect, Resonance effect, Hyper conjugation (o, p-directing effect of Alkyl group, Stability of Carbonium ion and Free radicals), Hybridization, bond lengths and bond angles, bond energy, Localized and delocalized chemical bonds.		
3		Physical	15	34%
		Solution and Volumetric Analysis		
	3.1	Introduction of Volumetric analysis, Types of Titration, Acid-Base titrations, Redox titrations, Complexometric titrations Precipitation Titrations, Back Titration, Numericals		

Reference Books:

Reference Books : Inorganic Chemistry

- 1 UGC Inorganic Chemistry - H. C. Khera (Pragati Prakashan).
- 2 Concise of Inorganic Chemistry - J. D. Lee.
- 3 Advanced Inorganic Chemistry- Cotton and Wilkinson.



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- 4 Atomic Structure and Chemical Bonding by Manas Chanda
- 5 Principles of Inorganic Chemistry- B. R. Puri, L. R. Sharma & K. C. Kalia.
- 6 Shriver & Atkins' Inorganic Chemistry
- 7 General Inorganic Chemistry: J. A. Duffy, Longman (2nd Edition).
- 8 Basic Inorganic Chemistry : F. A. Cotton and G. Wilkinson, Wiley Eastern

Reference Books: Organic Chemistry

- 1 Organic Reaction Mechanism, including Reaction Intermediates, V. K. Ahluwalia, Ane's Chemistry active series.
- 2 Undergraduate Organic Chemistry, volume-1, Jagdambasingh, L.D.S.Yadav, Pragati Prakashan, 8th edition-2013.
- 3 Structure and Mechanism in Organic Chemistry, C.K. Ingold, Cornell University Press.
- 4 A Guide Book to Mechanism in Organic Chemistry, Peter Sykes, Longman.
- 5 Textbook of Organic Chemistry by P S Kalsi, New Age International
- 6 Modern Principles of Organic Chemistry: M. K. Jain and S. C. Sharma.
- 7 Reaction Mechanism and Reagents in Organic Chemistry, Gurdeep R. Chatwal 4th edition, Himalaya Publication House.
- 8 Organic Chemistry Volume. I & II, S.M.Mukherji, S.P.Singh, R.P.Kapoor.

Reference Books: Physical Chemistry

- 1 Physical Chemistry, B. K. Sharma, Goel Publication House. Meerut.
- 2 An Introduction of Physical Chemistry, D. K. Chakrabarty, Narosa Pub. House, New Delhi.
- 3 Principles of Physical Chemistry: B. R. Puri and L. R. Sharma.
- 4 A Text Book of Physical Chemistry: A. S. Negi and S. C. Anand.
- 5 Physical Chemistry, Pt. I & II: C. M. Gupta, J. K. Saxena and M. C. Purohit.
- 6 Atkins' Physical Chemistry, Oxford University Press.

LIST OF EXPERIMENTS

1. Organic Chemistry

- Identification of an organic compound through the functional group analysis, Determination of melting point and boiling point, Preparation of suitable derivative.
- Candidate should perform the analysis of at least 10 compounds.



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List of compounds

➤ **Acids:**

Benzoic acid, Cinnamic acid, Phthalic acid, Oxalic acid, Succinic acid.

➤ **Phenols:**

α -Naphthol, β -Naphthol.

➤ **Bases:**

P-Toluidine, Diphenylamine, Aniline, Methyl aniline.

➤ **Neutrals:**

Naphthalene, Anthracene, Acetamide, Benzamide, Acetanilide, m-Dinitrobenzene, Urea, Thiourea, Toluene, Acetone, Benzaldehyde, Methyl acetate, Ethyl acetate, Chloroform, Carbon tetrachloride, Chlorobenzene, Nitrobenzene.

2. Volumetric Titrations

- To determine the strength of NaOH and Na₂CO₃ present in the solution mixture of NaOH & Na₂CO₃ and to find out their percentage composition.
- To determine the strength of NaHCO₃ and Na₂CO₃ present in the solution mixture of NaHCO₃ & Na₂CO₃ and to find out their percentage composition.
- To determine the Normality, gm/liter and molarities of H₂C₂O₄.2H₂O and H₂SO₄ present in the solution mixture of H₂C₂O₄.2H₂O & H₂SO₄ by using X N NaOH and Y N KMnO₄ solutions.
- To determine the Normality, gm/liter and molarity of H₂C₂O₄.2H₂O and K₂C₂O₄ present in the solution mixture of H₂C₂O₄.2H₂O & K₂C₂O₄ by using X N NaOH and Y N KMnO₄ solutions.
- To determine the amount of Ca⁺² and Mg⁺² ion by EDTA solution from the mixture solution of CaCl₂ and MgCl₂.

3. Demonstrations

- Calibration of burette and Pipette.
- M.P and B.P of organic compound

CO-PO & CO-PSO Mapping



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Course Outcomes	Program Outcomes										
	1: - Less relevant, 2: - Mild relevant, 3: - Highly relevant										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2
CO1	3	3	3	1	1			1		3	3
CO2	3	3	3			1		1		2	2
CO3	3	3	3		1			1		2	3
CO4	3	3	3		1	1		1	1	1	1
CO5	2	2	2		1	1	1	1	1	1	1
CO6				1				1	1	1	1
CO7					1	1				1	1



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GOKUL GLOBAL UNIVERSITY, SIDHPUR

Programme Code		CPCHE		Programme Name		Certificate Programme of Physical Science		
Course Code		CPCHE201DSC		Semester		II		
GENERAL CHEMISTRY 2								
Course type:		Discipline Specific Course		Total Credit:		Theory	Practical	Total
						3	1	4
Teaching time (hours)		Examination Marking scheme						
Theory (hrs.)	Practical (hrs.)	Internal (Marks)		External (Marks)		Total (Marks)		
		Theory	Practical	Theory	Practical	Theory	Practical	
3 X 15 = 45	15X2=30	50	20	50	30	100	50	

Pre-requisite: The students must have chemistry as a core subject in their Higher Secondary level.

Rationale: Clearing the concepts of reactivity of Lanthanide series will help in the all-round development of students Knowledge, stereochemistry of organic compound and preparation of polymers can assist to learn reaction mechanism of organic molecule.

Course Objectives:

- To understand the core concepts of valence bond theories and f block elements.
- To understand organic chemistry i.e. stereochemistry, Conformers, isomers etc. and their application.
- To study about the polymerization reaction and application of polymers..

Course Outcome:

1. Students will have a firm foundation in the fundamentals and application of current chemical and scientific theories including those in Inorganic, Organic and Physical Chemistries.
2. Students will be able to design and carry out scientific experiments as well as accurately record and analyze the results of such experiments.
3. Students will be skilled in problem solving, critical thinking and analytical reasoning as
4. Applied to scientific problems.



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Unit	Topic	Content	Hours	Weightage
1		Inorganic chemistry	15	34%
	1.1	Chemical bonding		
		Valence Bond Theory: Introduction; Hitler-London theory (energy changes taking place during the formation of H ₂ Molecule, Pauling-Slater's Theory (orbital Overlap theory of Covalent Bond). Types of Bond, Covalent bond, ionic bond, Coordination covalent bond Coordination bond and Vanderwaals force bond. Hybridization and types of hybridization. Sp, sp ² , sp ³ , dsp ² , sp ³ d, sp ³ d ²		
	1.2	F- Block elements		
		Lanthanide's electronic Configuration, Oxidation state, Lanthanide Contraction, Effects of Lanthanide Contraction, Separation method: (a). Solvent extraction method (b). Ion exchange method.		
	1.3	Noble gases		
2		Organic chemistry	15	33%
		Stereo chemistry		
	2.1	Optical isomerism		
		General, Discussion of elements of symmetry, Molecular Chirality, Enantiomers, Optical activity, Properties of enantiomers, Chiral and Achiral molecules with two stereogenic centers, Diastereomers, Threo and Erythro diastereomers, Meso Compounds.		
3	2.2	Geometrical isomerism	15	33%
		Definition and general discussion of geometric isomers, General methods of structure determination (physical methods), E-Z systems of nomenclature (Simple illustration should be given).		
		Physical chemistry		
3	3.1	Polymers and Fibers	15	33%
		Introduction, Classification based on Source, Structure, Molecular forces. Polymerization and its mechanism. Definition of Rubber, Types of Rubber, Vulcanization of rubber. Application of Rubber. Biodegradable Polymers, Commercially important polymers- PE, PP, PS, PVC, ABS, PMMA, Glyptal		



		and their uses.		
		Types of fibers – Natural, semi synthetic, synthetic fibers. Physical properties of fibers and uses of Cellulose acetate, Viscose Rayon, Nylon, Polyesters acrylic, Glass fibers and Liquid Crystals.		
	3.2	Chemical kinetics		
		Rate of reaction, Order of reaction, Molecularity, Rate equation for second order reaction. ($a=b$) & ($a \neq b$), Characteristics of second order reaction, Rate equation for third order reaction, Characteristics of third order reaction, Numerical.		

Reference Books:

Reference Books: Inorganic Chemistry

Advanced Inorganic Chemistry, Vol I & II. Satya Prakash, G.D. Tuli, S.K. Basu and R.D. Madan.

Inorganic Chemistry', D.F. Shriver, P.W. Atkins, 3rd Edition, Oxford, 1999.

Essentials of Nuclear Chemistry' H.J. Arnicall, 4th Edition, New Age International, 1995.

Advanced Inorganic Chemistry - Raymond Chang

Inorganic Chemistry - P. L. Soni.

Co-ordination Chemistry – Banerjee.



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Reference Books: Organic Chemistry

- 1 Organic Chemistry, R. T. Morrison and R. N. Boyd, Prentice-Hall.
- 2 Organic Chemistry, (Volume I, II & III. S. M. Mukherji, S. P. Singh and R. P. Kapoor.
- 3 Stereochemistry of Carbon Compounds, Ernest L. Eliel, McGraw Hill.
- 4 Stereochemistry of Organic Compounds, P.S. Kalsi, New Age International.
- 5 Stereochemistry of Organic Compounds, D. Nasipuri, New Age International.
- 6 Organic Chemistry by Francis A. Carey.
- 7 A Text Book of Organic Chemistry: (Volume I & II) O. P. Agarwal

Reference Books: Physical Chemistry

- 1 Physical Chemistry by R.A. Albert and R.J. Silby, John Wiley 1995.
- 2 Advance Physical Chemistry by Gurdeep raj.
- 3 Essentials of Physical Chemistry, B. S. Bahal, G. D. Tuli and Arun Bahal, S. Chand & Co. New Delhi.
- 4 Elements of Physical Chemistry, B. R. Puri, L. R. Sharma and Madan Pathania Vishal Publishing Co. Jalandhar.
- 5 Principles of Physical Chemistry, Samuel H. Maron and Carl F. Prutton, Oxford & IBH Publishing Co. Pvt. Ltd. New Delhi.
- 6 Chemical Kinetics, G. R. Chatwal and Harish Mishra, Goel Publication House. Meerut.

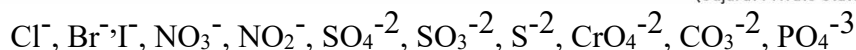
Practical list

1. Inorganic Chemistry

➤ Semi microAnalysis:

- Cation analysis; separation and identification of ions from group I, II, III-A, III-B, IV, V-A, V-B.
- Anion analysis like





(Water Soluble and insoluble).

- Candidate should perform the analysis of at least 10 compounds.

2. Standardization

- Preparation of standard solution of succinic acid and standardization of NaOH/KOH solution.
- Preparation of standard solution of $\text{Na}_2\text{S}_2\text{O}_3$ and standardization of I_2 solution.
- Preparation of standard solution of Oxalic acid and standardization of KMnO_4 solution.
- Preparation of standard solution of $\text{K}_2\text{Cr}_2\text{O}_7$ and standardization of FeSO_4 solution.

3. Preparation

- Preparation of Urea Formaldehyde resin

CO-PO & CO-PSO Mapping

Course Outcomes	Program Outcomes										
	1: - Less relevant, 2: - Mild relevant, 3: - Highly relevant										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2
CO1	3	3	3	1	1			1		3	3
CO2	3	3	3			1		1		2	2
CO3	3	3	3		1			1		2	3
CO4	3	3	3		1	1		1	1	1	1
CO5	2	2	2		1	1	1	1	1	1	1
CO6				1				1	1	1	1
CO7					1	1				1	1



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GOKUL GLOBAL UNIVERSITY, SIDHPUR

Programme Code		DPCHE		Programme Name		Diploma program ofChemical Science		
Course Code		DPCHE301DSC		Semester		III		
ORGANIC CHEMISTRY								
Course type:		Discipline Specific Course		Total Credit:		Theory	Practical	Total
						3	1	4
Teaching time (hours)		Examination Marking scheme						
Theory (hrs.)	Practical (hrs.)	Internal (Marks)		External (Marks)		Total (Marks)		
		Theory	Practical	Theory		Theory	Practical	Total
3 X 15 = 45	15X2=30	25	25	50		75	25	100

Pre-requisite:

1. Basic Knowledge of Organic Chemistry

Rationale: This syllabus covers a broad spectrum of topics within organic chemistry, focusing primarily on carbonyl compounds, electrophilic aromatic substitution, apply UV spectroscopy for structural analysis

Course Objective:

1. To develop understanding of the carbonyl compounds,
2. Understand substituent effects and reactions in aromatic compounds..
3. Learn UV spectroscopy principles and λ_{max} prediction for conjugated systems.

Course Outcome:

Sr No.	CO Statement	Unit
CO-1	Understanding of carbonyl compounds, their preparation and applications.	1
CO-2	Knowledge of electrophilic substitution reactions.	2
CO-3	The course on Ultraviolet Spectroscopy covers electronic transitions, chromophores, and shifts, along with Woodward–Fieser rules and λ_{max} calculations for conjugated systems.	3





Unit	Content	Hours	Weightage
1	Carbonyl compounds: Nomenclature of aliphatic, acyclic and aromatic carbonyl compounds. Structure reactivity of aldehydes and ketones and methods of preparation; Oxidation of primary and secondary alcohols using PCC, hydration of alkynes, action of Grignard reagent on esters. General mechanism of nucleophilic addition, and acid catalyzed nucleophilic addition Reactions. Mechanisms of following reactions: Benzoic condensation, Knoevenagel condensation, Claisen Schmidt and cannizzaro reaction. Keto-enol tautomerism: Mechanism of acid and base catalyzed enolization.	15	34%
2	Electrophilic aromatic Substitution: Introduction, effect of substituent groups, determination of orientation and relative reactivity, classification of substituent groups, electrophilic substitution (ES) reactions. Nitration, Sulfonation, Halogenation, Friedel Craft alkylation and acylation, Orientation In mono and disubstituted benzene. Polynuclear hydrocarbon: Nomenclature, structure and synthesis of Naphthalene and its derivatives. Reactions (oxidation, reduction and electrophilic substitution reaction (ESR)) of naphthalene.	15	33%
3	Ultraviolet Spectroscopy Type of electronic transitions, Effect of conjugation, Woodward –fisher rules, Concept of Chromophore and Auxochrome, Bathochromic, Hypsochromic, Hyperchromic, and Hypochromic shifts, Problems of conjugated enes, enones and aromatic ketones, aldehydes, acids and esters using empirical rules, numericals based on λ_{max}.	15	33%

Reference Books:

1. Robert Thornot Morrison and Robert Neilson Boyd, “Organic Chemistry”, PrenticeHall of India Pvt Ltd, New Delhi, Sixth Edition, 1992.
2. Bhupinder Mehta, Manju Mehta, “Organic Chemistry”, Prentit Hall of India Pvt Ltd, New Delhi, 2005.
3. James B Hedrickson Donald J. Cram and George S. Hammond, “Organic Chemistry”, Mc-Graw-Hill Kogakusha, Ltd., Third Edition.





4. Arun Bahl, B. S. Bahl, "Advance Organic Chemistry", S. Chand & Company Ltd., New Delhi, First Edition, 2003.
5. Spectroscopy by P.S. Kalsi. 6 Edition.

Online Resources:

- <https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=13G8VouhmrFfuhs6rkiyTA==>
- <https://nptel.ac.in/courses>

LIST OF EXPERIMENTS

Organic Chemistry (Candidate should perform the analysis of at least 7 compounds)

Identification of an organic compound through the functional group analysis,

- Determination of melting point and boiling point, Preparation of suitable derivative.
- Binary Organic Mixture: [Solid + Solid or Solid + liquid i.e. (acetone, methyl acetate, ethanol, benzene, CCl₄)].
- Determination of melting and boiling points of organic substances for two sessions.
- Organic analysis: Identification of acidic, basic, phenolic, and neutral organic substances.
- Detection of N, S and halogens, Test for aliphatic and aromatic nature of substances.
- Test for saturation and unsaturation.
- Identification of functional groups: i) Carboxylic acids ii) Phenols iii) Aldehydes iv) Ketones v) Esters vi) Carbohydrates vii) Amines viii) Amides ix) Halogen compounds.
- Preparation of derivatives for the functional groups.

CO-PO Competency and Program Indicators (PI)

Course Outcomes	Program Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	3	1		2	1	2				
CO2	3	3	1	1	1			1				
CO3	3	2	3						1			





GOKUL GLOBAL UNIVERSITY, SIDHPUR

Programme Code		DPCHE		Programme Name		Diploma program of Chemical Science		
Course Code		DPCHE302DSC		Semester		III		
PHYSICAL CHEMISTRY								
Course type:		Discipline Specific Course		Total Credit:		Theory	Practical	Total
						3	1	4
Teaching time (hours)		Examination Marking scheme						
Theory (hrs.)	Practical (hrs.)	Internal (Marks)		External (Marks)		Total (Marks)		
		Theory	Practical	Theory		Theory	Practical	Total
3 X 15 = 45	15X2=30	25	25	50		75	25	100

Pre-requisite:

1. Basic Knowledge of Physical Chemistry

Rationale: This syllabus covers a broad spectrum of topics within Physical chemistry, focusing Wave mechanics, nuclear chemistry and valence theory of liquids.

Course Objective:

1. An advanced knowledge about the wave mechanics.
2. An in-depth study of the free particle system.

Course Outcome:

Sr No.	CO Statement	Unit
CO-1	Student after learning this course can be introduced about the basic postulates of quantum mechanics.	1
CO-2	Understand the concept of nuclear particle	2
CO-3	Learn the measurement of Surface tension, Viscosity, Optical activity, Refractive index.	3





Unit	Content	Hours	Weightage
1	WaveMechanics: Black Body Radiation & Quantum Theory, Basic postulates of quantum Mechanics, Photo electric effect: Wave particle duality of radiation, Compton effect, Free particle system, Particle in one-dimension box, Operator: Definition, Algebra of operators, Addition, Multiplication, Commutative properties, Linear operator, Commutator operators, Laplacian operator.	15	34%
2	Nuclear Chemistry: Concept of Nuclear particle, Definition of Isotopes, Isotones, Isobars, Isomers, Packing fraction, Nuclear binding energy, Nuclear coulomb barrier, Rate of ratio active disintegration, half-life period, Average life period, Rutherford's law (Group transfer law), Numerical.	15	33%
3	The Valance Theory of Liquid: Vapor-Pressure, Dipole moment and its measurements & its application, Numerical, Surface tension: (1) Measurement of surface tension by stalagmometer. (2) Perichor and its applications, Measurement of viscosity by Ostwald-viscometer, Measurement of Optical activity by Polarimeter, Refractive index: (1) Specific refraction (2) Molar refraction (3) Measurement of Refractive index by Abbe's Refractometer.	15	33%

Reference Books:

1. Advance Physical Chemistry by Gurdeep Raj
2. Physical Chemistry (Question and Answers) by R.D. Madan, G.D. Tully, S. Chand.
3. Principal of Physical Chemistry by Puri, Sharma, Pathania.
4. Chemical Thermodynamics by R.P. Rastogi and R.R. Mishra.
5. Essentials of Physical Chemistry by B.S. Bahal, Arun Bahal, G.D. Tully.
6. Physical Chemistry by P.W. Atkins, 5th Edition, Oxford, 1994, 7th Edition, 2002

Online Resources:

- ☐ <https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=13G8VouhmrFfuhs6rkiyTA==>





□ <https://nptel.ac.in/courses>

LIST OF EXPERIMENTS

Physical chemistry:(Any 7 out of 10)

1. Conductometric titration: - HCl / CH₃COOH Vs NaOH
2. Conductometric titration: - HCl Vs NH₄OH
3. pH- metric titration: -i. Calibration of pH - meter by 4 - pH buffer ii. HCl Vs NaOH
4. Determine the Dissociation constant of the acid of mixtures CH₃COONa and CH₃COOH by determine the PH.
5. Determine the specific refraction and molar refraction of the given liquid A, B and mixture C (A+B) and calculate the percentage composition of A and B in the mixture C by Abbe's Refractrometer.
6. Determine the molar refraction CH₃COOC₂H₅, CH₃COOC₃H₇ and CH₃COOC₄H₉ and show the constancy of reaction equivalent of -CH₂- Group by Abbe's Refractrometer.
7. To determine the viscosity of a different mixture of liquid A and B and determine the percentage composition of unknown mixture by graphical method.
8. To determine the surface tension and compare cleaning-efficiency of two samples of a detergent or soap with stalagmometer.
9. To study kinetic reaction of decomposition of H₂O₂ catalysis by iodine ion (Clock reaction).
10. Find the solubility and heat of solution of the given organic acid at two different temperatures.

CO-PO Competency and Program Indicators (PI)

Course Outcomes	Program Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	2	1		2	1	1				
CO2	3	2	1	1	1			2				
CO3	3	2	3						1			





GOKUL GLOBAL UNIVERSITY, SIDHPUR

Programme Code		DPCHE		Programme Name		Diploma program of Chemical Science		
Course Code		DPCHE401DSC		Semester		IV		
INORGANIC CHEMISTRY								
Course type:		Discipline Specific Course		Total Credit:		Theory	Practical	Total
						3	1	4
Teaching time (hours)		Examination Marking scheme						
Theory (hrs.)	Practical (hrs.)	Internal (Marks)		External (Marks)		Total (Marks)		
		Theory	Practical	Theory		Theory	Practical	Total
3 X 15 = 45	15X2=30	25	25	50		75	25	100

Pre-requisite:

2. Basic Knowledge of Inorganic Chemistry

Rationale: This syllabus covers a broad spectrum of topics within inorganic chemistry, focusing primarily on Introduction to Chemistry of Coordination Compounds Historical perspectives, Nature of the Metal-Ligand Bond, Molecular Orbital theory, Inorganic polymer and purification of water.

Course Objective:

4. To understand the concept of Introduction to Chemistry of Coordination Compounds and Nature of the Metal-Ligand Bond.
5. To understand the concept of Inorganic polymer and Purification of Water.

Course Outcome:

Sr No.	CO Statement	Unit
CO-1	Understand the concept of coordination chemistry principles for synthesizing and characterizing compounds	1
CO-2	Apply the concepts of molecular orbital theory.	2
CO-3	Understand the concepts of types of inorganic polymers.	3





Unit	Content	Hours	Weightage
1	Introduction to Chemistry of Coordination Compounds Historical perspectives: Early ideas on coordination compounds, Basic terms and nomenclature, Types of ligands. Theories of coordination compounds, Effective atomic number rule, Eighteen electron Rule Nature of the Metal-Ligand Bond: Valence Bond Theory: Hybridization of the central metal orbitals-sp³, sd³/d³s, sp³d²/d²sp³, sp²d, Inner and outer orbital complexes of. (Suitable examples of Mn(II), Fe(II), Fe(III), Co(II)/Co(III), Ni(II), Cu(II), Zn(II) complexes with ligands like Aqua, ammonia CN⁻ and halides may be used)	15	34%
2	Molecular Orbital Theory: Comparing Atomic Orbitals and Molecular Orbitals, Linear combination of atomic orbitals to give molecular orbitals LCAO- MO approach for diatomic homonuclear molecules. Wave mechanical treatment for molecular orbitals (H₂⁺ and H₂), Molecular orbital Theory, Bond Order and magnetic property: with reference to O₂, O₂⁺, O₂⁻, O₂²⁻	15	33%
3	Inorganic polymer: Types of inorganic polymers, comparison with organic polymers, synthesis, structural aspects and applications of silicones and siloxanes, Borazines, silicates and phosphazenes, and polysulfides. Purification of Water: Different methods of purification of water for potable and industrial purposes, Soft and hard water, Desalination of sea water by reverse osmosis and electrodialysis.	15	33%

Reference Books:

6. J. D. Lee, 4th Edn., Concise Inorganic Chemistry, ELBS, The group III elements.
7. Puri, Sharma and Kalia, Milestone publishers, Principles of Inorganic Chemistry, Emeleus and Anderson, Modern Aspects of Inorganic Chemistry, page no.
8. James E. Huheey, Inorganic Chemistry: Principles of Structure and Reactivity, R. Gopalan, Universities Press India Pvt.Ltd. Inorganic Chemistry for Undergraduates.





Online Resources:

- ☐ <https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=13G8VouhmrFfuhs6rkiyTA==>
- ☐ <https://nptel.ac.in/courses>

LIST OF EXPERIMENTS

Inorganic Chemistry (Candidate should perform the analysis of at least 7 compounds)

- Qualitative inorganic analysis: Analysis of Inorganic salt mixture containing two anions and two cations.
Mixture containing four radicals. Anion should be (CO_3^{2-} , NO_2^- , SO_3^{2-} , S^{2-} , Br^- , I^- , NO_3^- , SO_4^{2-} , CrO_4^{2-} , $\text{Cr}_2\text{O}_7^{2-}$)

CO-PO Competency and Program Indicators (PI)

Course Outcomes	Program Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	3	1		2	1	2				
CO2	3	3	1	1	1			1				
CO3	3	2	3						1			





GOKUL GLOBAL UNIVERSITY, SIDHPUR

Programme Code		DPCHE		Programme Name		Diploma program of Chemical Science		
Course Code		DPCHE402DSC		Semester		IV		
ANALYTICAL CHEMISTRY								
Course type:		Discipline Specific Course		Total Credit:		Theory	Practical	Total
						3	1	4
Teaching time (hours)		Examination Marking scheme						
Theory (hrs.)	Practical (hrs.)	Internal (Marks)		External (Marks)		Total (Marks)		
		Theory	Practical	Theory		Theory	Practical	Total
3 X 15 = 45	15X2=30	25	25	50		75	25	100

Pre-requisite:

1. Basic Knowledge of Analytical Chemistry

Rationale: This syllabus covers a broad spectrum of topics within analytical chemistry, focusing basic of analytical chemistry, spectroscopy and classical method of analysis.

Course Objective:

1. Analytical Chemistry for B.Sc. Semester 4 covers the fundamental techniques and principles used for the qualitative and quantitative analysis of chemical substances.
2. The course aims to provide students with a comprehensive understanding of various analytical methods and their applications in different fields.

Course Outcome:

Sr No.	CO Statement	Unit
CO-1	To understand the principles and methodologies of qualitative and quantitative analysis	1
CO-2	To learn about various classical and modern analytical techniques	2
CO-3	To develop skills in interpreting analytical data. To apply analytical techniques to solve chemical problems	3





Unit	Content	Hours	Weightage
1	Introduction to Analytical Chemistry: Definition and scope of analytical chemistry, Types of analysis: Qualitative and Quantitative, Analytical process: Sampling, sample preparation, analysis, and data interpretation, Errors in chemical analysis: Types, sources, and methods of minimization	15	34%
2	Classical Methods of Analysis: A) Gravimetric Analysis: Principle and steps involved, Precipitation, coagulation, and digestion, Filtration, washing, and drying, Calculations in gravimetric analysis B) Titrimetric Analysis: Principles of titration and types of titrations, Acid-base titrations, Redox titrations, Complexometric titrations, Precipitation titrations, Indicators used in different types of titrations	15	33%
3	Instrumental Methods of Analysis Chromatography: Principle of adsorption and partition chromatography, column chromatography: adsorbents, classification of adsorbents, solvents, preparation of column, adsorption and applications. Thin Layer Chromatography: choice of adsorbent, choice of solvent, preparation of chromatogram, sample, R value and its applications. Paper chromatography, solvent used, R _f value, factors which affect R _f value.	15	33%

Reference Books:

1. "Fundamentals of Analytical Chemistry" by Douglas A. Skoog, Donald M. West, F. James Holler, and Stanley R. Crouch
2. "Principles of Instrumental Analysis" by Douglas A. Skoog and F. James Holler
3. "Quantitative Chemical Analysis" by Daniel C. Harris

Online Resources:





□ <https://epgp.inflibnet.ac.in>

□ <https://nptel.ac.in/courses>

LIST OF EXPERIMENTS

Analytical Chemistry:(Any 7 out of 10)

- **Gravimetric Analysis**
 - Determination of sulfate as barium sulfate
 - Determination of nickel as nickel dimethylglyoximate
- **Titrimetric Analysis**
 - Standardization of NaOH using oxalic acid
 - Redox titration of iron(II) using potassium permanganate
 - Standardization of potassium permanganate using oxalic acid (Reduction-oxidation titration)
- **Spectroscopic Analysis**
 - Determination of $\lambda_{\max}$ of a given compound using UV-Vis spectroscopy
- **Chromatographic Techniques**
 - Identification of amino acids and metal ions using paper chromatography.

CO-PO Competency and Program Indicators (PI)

Course Outcomes	Program Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	3	1		2	1	2				
CO2	3	3	1	1	1			1				
CO3	3	2	3						1			





Gujarat Private State University Act 4 of 2016

GOKUL GLOBAL UNIVERSITY, SIDHPUR								
Programme Code		DPCHE		Programme Name		Diploma program of Chemical Science		
Course Code		DPCHE403DSC		Semester		IV		
INDUSTRIAL CHEMICALS AND ENVIRONMENT								
Course type:		Discipline Specific Course		Total Credit:		Theory	Practical	Total
						3	1	4
Teaching time (hours)		Examination Marking scheme						
Theory (hrs.)	Practical (hrs.)	Internal (Marks)		External (Marks)		Total (Marks)		
		Theory	Practical	Theory		Theory	Practical	Total
3 X 15 = 45	15X2=30	25	25	50		75	25	100

Pre-requisite:

- Basic Knowledge of Industrial chemicals and environment.

Rationale: This syllabus covers a broad spectrum of topics within Industrial chemicals and environment, focusing primarily on Inorganic chemicals, Environment and its segments and Energy & Environment.

Course Objective:

- To understand the manufacture, applications, and hazards associated with handling key inorganic chemicals, including hydrochloric acid, nitric acid, sulfuric acid, caustic soda, borax, bleaching powder, sodium thiosulfate, hydrogen peroxide, potassium dichromate, and potassium permanganate.
- To understand the concept of environmental impact of various energy sources, methods of managing nuclear pollution, and the role of biocatalysis in green chemistry and the chemical industry.





Course Outcome:

Sr No.	CO Statement	Unit
CO-1	Understand the Manufacture and Applications of Key Inorganic Chemicals	1
CO-2	Analyze Environmental Segments and Ecosystems	2
CO-3	To review the practical importance and relevance of process takes place in chemical industry.	3

Unit	Content	Hours	Weightage
1	Inorganic Chemicals: Mining and manufacturing of Sulphur, Manufacture of Sulphuric acid by DCDA process and its applications. Sulphur trioxide, Sodium Sulphate, Sodium Thiosulphate, Manufacturing technologies. Introduction to Fertilizer industries, manufacturing processes of Ammonia, Urea, Nitric acid, Phosphoric acid their uses and applications, NPK fertilizer.	15	34%
2	Environment and its segments: Air Pollution: Major regions of atmosphere, chemical and photochemical reactions in atmosphere. Air pollutants: types, sources, particle size and chemical nature; Photochemical smog: its constituents and photochemistry. Major sources of air pollution, Pollution by SO ₂ , CO ₂ , CO, NO _x , H ₂ S and other foulsmelling gases, methods of estimation of CO, NO _x , SO _x and control procedures, Effects of air pollution on living organisms and vegetation, Greenhouse effect and Global warming, Environmental effects of ozone, Ozone depletion by oxides of nitrogen, chlorofluorocarbons and halogens, Air pollution control, Settling Chambers, Venturi Scrubbers, Cyclones, Electrostatic Precipitators (ESPs).	20	33%
3	Chlor-alkali and Heavy Inorganic industry: Manufacturing of Caustic Soda and Chlorine by membrane cell, mercury & diaphragm process, Manufacturing of Sodium Bicarbonate.	10	33%

Reference Books:

1. Manahan, S.E. (2017), Environmental Chemistry, CRC Press.





2. Buchel, K.H.; Moretto, H.H.; Woditsch, P.(2003), Industrial Inorganic Chemistry, Wiley-VCH.
3. De, A.K.(2012), Environmental Chemistry, New Age International Pvt., Ltd.
4. Khopkar, S.M.(2010), Environmental Pollution Analysis, New Age International Publisher.

Online Resources:

- <https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=13G8VouhmrFfuhs6rkiyTA==>
- <https://nptel.ac.in/courses>

LIST OF EXPERIMENTS

1. Determination of dissolved oxygen in water.
2. Determination of Chemical Oxygen Demand (COD).
3. Determination of Biological Oxygen Demand (BOD).
4. Estimation of total alkalinity of water samples (CO_3^{2-} , HCO_3^-) using double titration method.
5. Determination of Chloride ion.
6. To determine saponification value of oil sample
7. To prepare caustic soda by chemical method.
8. To determine the acid value of the given sample of oil.
9. Determine the total hardness of given water samples.

CO-PO Competency and Program Indicators (PI)

Course Outcomes	Program Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	3	1		2	1	2				
CO2	3	3	1	2	1			1				
CO3	3	2	3						1			





**GOKUL
GLOBAL
UNIVERSITY**

Approved By Govt. of Gujarat
(Recognized by UGC under Section 22 & 2(f) of 1956)
(Gujarat Private State University Act 4 of 2018)

COURSE STRUCTURE

Bachelor of Science

Physics

Under

National Education Policy (NEP)-2020



**Faculty of Science
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PO No.	Program Outcome Description
PO1	Foundational Knowledge: Graduates will possess a strong foundation in the fundamental concepts, theories, and principles of their chosen discipline, as per the prescribed curriculum.
PO2	Practical Skills: Students will acquire practical skills relevant to their field, including laboratory techniques, data collection, analysis, and interpretation.
PO3	Critical Thinking: Graduates will develop critical thinking skills to analyze, evaluate, and solve scientific problems, applying logical reasoning and evidence-based approaches.
PO4	Effective Communication: Students will demonstrate effective communication skills, both orally and in writing, to convey scientific ideas and findings to different audiences.
PO5	Collaboration and Teamwork: Graduates will work collaboratively in teams, engaging in effective communication, cooperation, and coordination to accomplish shared objectives.
PO6	Information Literacy: Students will develop information literacy skills to access, evaluate, and utilize scientific information from diverse sources, including digital resources.
PO7	Ethical Awareness: Graduates will demonstrate ethical awareness and responsibility in scientific practice, understanding the importance of integrity, honesty, and ethical conduct.
PO8	Lifelong Learning: Students will develop a commitment to lifelong learning, staying updated with advancements in their field and engaging in continuous professional development.
PO9	Societal Impact: Graduates will recognize the social and ethical implications of scientific knowledge and contribute positively to society through their discipline.

PSO No.	Program Specific Outcome Description
PSO1	Physical Understanding and Application: Graduates of the B.Sc. Physics program will possess a thorough understanding of the principles and theories of physics. They will apply this knowledge to analyse and solve physical problems, design experiments, and make scientific observations.
PSO2	Data Analysis and Modelling: Graduates will develop skills in data analysis, statistical methods, and mathematical modelling to interpret and predict physical phenomena. They will apply these skills to address real-world challenges and contribute to advancements in scientific research.





**GOKUL GLOBAL UNIVERSITY
FACULTY OF SCIENCE
DEPARTMENT OF PHYSICS**

Sr. No.	Course	Level	Semester	Course Type	Course Code	Course Name	Duration in Hrs.		Credit	Max. Marks		To tal
							Theory	Practical		CCE(Formative) (weekly test/ Assignment/ Practical/ Viva/ Group Discussion/ Quiz)	SEE (Sum mative)	
1	Certificate	UG	I	Discipline Specific Course (Major-1)	CPPHY101DSC	Mechanics and Basic Electronics (MAE)	45	30	4	50	50	100
2				Discipline Specific Course (Major-2)	CPMAT101DSC	Differential Calculus	45	30	4	50	50	100
3				Discipline Specific Course (Minor)	CPCHE101DSC	General Chemistry-I	45	30	4	50	50	100
4				Multi-Disciplinary Course	CP101MDC	Basics of computer application	45	30	4	50	50	100
5				Ability Enhancement Course	CP101AEC	Communication Skills-1	30	---	2	25	25	50
6				Indian Knowledge System	CP101IKS	Indian Constitution	30	---	2	25	25	50
7				Skill Enhancement Course	CP101SE	Photography Basics	30	---	2	25	25	50
Total							270	120	22	275	275	550





GOKUL GLOBAL UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF PHYSICS

GOKUL GLOBAL UNIVERSITYFACULTY OF SCIENCEDEPARTMENT OF PHYSICS												
Sr. No.	Course	Level	Semester	Course Type	Course Code	Course Name	Duration in Hrs.		Credit	Max. Marks		Total
							Theory	Practical		CCE(Formative) (weekly test/ Assignment/ Attendance/ Practical/ Viva/ Group Discussion/ Quiz)	SEE (Summative)	
1	Certificate	UG	II	Discipline Specific Course (Major-1)	CPPHY201DSC	Wave, Electronics & Semiconductor Device (WES)	45	30	4	50	50	100
2				Discipline Specific Course (Major-2)	CPMAT201DSC	Integral Calculus & Differential Equation	45	30	4	50	50	100
3				Discipline Specific Course (Minor)	CPCHE201DSC	General Chemistry-II	45	30	4	50	50	100
4				Multi-Disciplinary Course	CP201MDC	Basic Statistics	45	30	4	50	50	100
5				Ability Enhancement Course	CP201AEC	Communication Skills-2	30	---	2	25	25	50
6				Value added Course-I	CP201VAC	Fundamentals of Nutrition	30	---	2	25	25	50
7				Skill Enhancement Course	CP201SE	Cyber Security	30	---	2	25	25	50
Total							270	120	22	275	275	550





**GOKUL GLOBAL UNIVERSITY
FACULTY OF SCIENCE
DEPARTMENT OF PHYSICS**

Sr. No.	Course	Level	Semester	Course Type	Course Code	Course Name	Duration in Hrs.		Credit	Max. Marks		Total
							Theory	Practical		CCE(Formative) (weekly test/ Assignment/ Attendance/ Practical/ Viva/ Group Discussion/ Quiz)	SEE (Summative)	
1	Diploma	UG	III	Discipline Specific Course (Major-1)	DPPHY301DSC	OPTICS, MODERN PHYSICS & LASER(OMPL)	45	30	4	50	50	100
2				Discipline Specific Course (Major-2)	DPPHY302DSC	SOLID STATE, NUCLEAR & MATHEMATICAL PHYSICS(SSNM)	45	30	4	50	50	100
3				Discipline Specific Course (Major-3)	DPMAT301DSC/DPCHE301DSC		45	30	4	50	50	100
4				Multi-Disciplinary Course	DP301MDC	ARTIFICIAL INTELLIGENCE(AI) :-Knowledge Representation and Reasoning	45	30	4	50	50	100
5				Ability Enhancement Course	DP301AEC	CREATIVE WRITING ESSENTIAL	30	---	2	25	25	50
6				Indian Knowledge System	DP301IKS	YOGA	30	---	2	25	25	50
7				Skill Enhancement Course	DP301SEC	PRESENTATION SKILLS	30	---	2	25	25	50
Total							270	120	22	275	275	550





GOKUL GLOBAL UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF PHYSICS

Sr. No.	Course	Level	Semester	Course Type	Course Code	Course Name	Duration in Hrs.		Credit	Max. Marks		Total
							Theory	Practical		CCE(Formative) (weekly test/ Assignment/ Attendance/ Practical/ Viva/ Group Discussion/ Quiz)	SEE (Summative)	
1	Diploma	UG	IV	Discipline Specific Course (Major-1)	DPPHY401DSC	ELECTROMAGNETISM, ELECTRONICS & PLASMA PHYSICS (EMEP)	45	30	4	50	50	100
2				Discipline Specific Course (Major-2)	DPPHY402DSC	QUANTUM MECHANICS, SOLID STATE & THERMODYNAMICS (QMSST)	45	30	4	50	50	100
3				Discipline Specific Course (Major-3)	DPMAT401DSC	Advanced Calculus	45	30	4	50	50	100
4				Discipline Specific Course (Minor)	DPCHE401DSC	Inorganic Chemistry	45	30	4	50	50	100
5				Ability Enhancement Course	DP401AEC	PERSONALITY DEVELOPMENT	30	---	2	25	25	50
6				Value added Course-I	DP401VAC	SPORTS AND FITNESS	30	---	2	25	25	50
7				Skill Enhancement Course	DP401SEC	STRESS MANAGEMENT	30	---	2	25	25	50
Total							270	120	22	275	275	550





GOKUL GLOBAL UNIVERSITY, SIDHPUR								
Programme Code		CPPHY		Programme Name		Certificate Programme of Physical Science		
Course Code		CPPHY101DSC		Semester		I		
MECHANICS AND BASIC ELECTRONICS(MAE)								
Course type:		Discipline Specific Course		Total Credit:		Theory	Practical	Total
						3	1	4
Teaching time (hours)		Examination Marking scheme						
Theory (hrs.)	Practical (hrs.)	Internal (Marks)		External (Marks)		Total (Marks)		
		Theory	Practical	Theory		Theory	Practical	Total
3 X 15 = 45	15X2=30	25	25	50		75	25	100

Pre-requisite : The students must have core subjects like Math's, Physics, and Chemistry in their Higher Secondary level.

Rationale : Knowledge of the fundamentals of electronics and major functioning of electronic devices can assist a mechanical engineer to better communicate with electrical and electronics engineers collaborating for the design/manufacturing of these systems

Course Objective:

The objective of the course to impart fundamental knowledge about some selected aspects of physics. The topics include Vectors algebra & Calculus Basic Electronics and Linear circuits, Laws of Motion & Dynamics of System of Particles and Elasticity, Oscillations, Gravitation. Some industry relevant topics are also covered under which basic concepts are taught.

Course Outcome:

- (I) The student will be able to relate different kind of oscillations
- (II) The student will be able to learn Standard differential equations.
- (III) The student will be able to learn basics electronics and linear circuits.
- (IV) The student will be able to learn laws of motions and dynamics of system of particles.





- (V) They will be able to explain various natural vibration phenomena.
- (VI) Develop basic communication skills through working in groups in performing the laboratory experiments and by interpreting the results.
- (VII) Apply the various procedures and techniques for the experiments.

Unit	Topic	Content	Hours	Weightage
1		Vectors algebra & Calculus	15	33%
	1.1	Vectors and Scalars, Addition of Vectors, Resolution of Vectors, Scalar and Vector Products, Triple Products of Vectors, Scalar Triple Products, Some Important Conclusions from Scalar Triple Product, Vector Triple Products, Differentiation of a Vector with Respect to time		
	1.2	Scalar and Vector Fields, Partial Differentiation and Gradient, Operation with ∇ , The rate of flow of a Vector Field, Vector Integration, Surface Integral, Gauss's Divergence Theorem, Stoke's Theorem, Derivation of Green's Theorem from Gauss Divergence Theorem		
2		Basic Electronics and Linear circuits	15	33%
	2.1	Electronic components, Basic idea of Passive components and Active components, Source of Electric Power, Batteries, Concept of Voltage Sources, Ideal Voltage Source, Concept of Current Source, Practical Current Source, Conversion of Voltage Source into Current Source and vice versa		
	2.2	RC circuits analysis and time constant (Capacitor charging and discharging), RL circuits analysis (Growth and Decay of current), Ideal LC circuit, Series LCR circuit (for charge case)		
3		Laws of Motion & Dynamics of System of Particles	15	34%
	3.1	Frames of reference, Newton's law of motion, Kinetic energy, Work and Work-Energy theorem, Calculation of Work done, Conservative and Non-Conservative force(definition), Potential Energy and Conservation of Energy		
	3.2	Definition of Center of Mass, Center of mass of Two particle and several group of particles, Linear momentum and its Conservation Principle, Rocket Propulsion		
	3.3	Collisions, Inelastic Collisions, Elastic Collisions (one- and two-dimension explanation)		





Reference Books:

- Concept of physics by H C Verma part 1 Publisher: Bharati Bhawan
- Electricity and Magnetism by K.K.Tewary Publisher: S.Chand & Company Ltd.
- Sears and Zemansky's University physics with modern physics by H D Young
Publisher: PEARSON
- Basic electronics and linear circuits by N N Bhargava, D C Kushreshtha, S C Gupta
Publisher: Technical Teachers Training Institutes Chandigarh
- Mechanics Berkeley Physics course Vol 1
- Lectures on physics, R.P.Feynman, Vol 1
- Physics – Resnick and Holiday
- Principles of electronics by V.K. Mehta, S.Chand
- Electronics Device and Circuits by Allen Mottershead Pub: PHI

LIST OF EXPERIMENTS

- 1) To determine the Moment of Inertia of a Fly Wheel.
- 2) To determine 'g' by bar pendulum.
- 3) To determine the Young's Modulus of long wire by Searl's method.
- 4) To study of Charging and Discharging of Capacitor and RC time constant.
- 5) To determine Low resistance by Projection method.
- 6) Verification of Steafan's law using AC source.
- 7) Damping coefficient, Relaxation and quality factor in the damped motion of a Simple Pendulum.
- 8) Study of Resonator.
- 9) Refractive index liquid using convex lens.





Reference Books:

- B.Sc. Practical physics By C.L.Arora Pub: S.chand.
- A text book of Practical Physics By Indu Prakash & Ramkrishna Pub: Kitab Mahal, New Delhi.
- Practical Physics By S.L.Gupta and V. Kumar Pub: Pragati Prakashan, Meerut.
- B.Saraf et al-Physics through experiments Vol. I & II.

CO-PO & CO-PSO Mapping

Course Outcomes	Program Outcomes										
	1: - Less relevant, 2: - Mild relevant, 3: - Highly relevant										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2
CO1	3	3	3	1	1			1		3	3
CO2	3	3	3			1		1		2	2
CO3	3	3	3		1			1		2	3
CO4	3	3	3		1	1		1	1	1	1
CO5	2	2	2		1	1	1	1	1	1	1
CO6				1				1	1	1	1
CO7					1	1				1	1





GOKUL GLOBAL UNIVERSITY, SIDHPUR							
Programme Code		CPPHY		Programme Name	Certificate Programme of Physical Science		
Course Code		CPPHY201DSC		Semester	II		
WAVE, OPTICS, ELECTROSTATICS & SEMICONDUCTOR DEVICE (WOES)							
Course type:		Discipline Specific Course		Total Credit:	Theory	Practical	Total
					3	1	4
Teaching time (hours)		Examination Marking scheme					
Theory (hrs.)	Practical (hrs.)	Internal (Marks)		External (Marks)	Total (Marks)		
		Theory	Practical	Theory	Theory	Practical	Total
3 X 15 = 45	15X2=30	25	25	50	75	25	100

Pre-requisite: The students must have core subjects like Math's, Physics, and Chemistry in their Higher Secondary level.

Rationale: Clearing the concepts of light and its wave optics will help in the all-round development of students Knowledge of the Sound & Ultrasonic Waves and Thermodynamics can assist to better communicate for the design/manufacturing of these systems

Course Objective:

- (I) The objective of the course to impart fundamental knowledge about some selected aspects of physics. The topics include Vectors algebra & Calculus Basic Electronics and Linear circuits, Laws of Motion & Dynamics of System of Particles and Elasticity, Oscillations, Gravitation. Some industry relevant topics are also covered under which basic concepts are taught.

Course Outcome:

- (I) The student will be able to relate different kind of waves motions.
- (II) The student will be able to learn Sound and ultrasonic waves.
- (III) The student will be able to learn Semiconductor phenomenon.
- (IV) The student will be able to learn Electrostatics basics laws.
- (V) They will be able to explain various natural vibration phenomena.
- (VI) Develop basic communication skills through working in groups in performing the laboratory experiments and by interpreting the results.
- (VII) Apply the various procedures and techniques for the experiments.





Unit	Topic	Content	Hours	Weightage
1	1.1	Waves Motion & Sound & Ultrasonic Waves	15	33%
		Wave motion, Transverse Wave Travelling in String, Velocity of a Wave in a String, Interference and the principle of Superposition, Standing waves on a String, Normal Modes of a String, Laws of Transverse Vibrations of a String, Melde's Experiment		
	1.2	Speed of Sound Wave in a material medium, Speed of Sound in Gas-Newton's Formula and Laplace's Correction, Intensity and loudness of Sound Wave - Decibels, Beats, Musical Scale, Acoustics of Buildings, Application of Acoustic phenomena, Doppler Effect, Ultrasonic, Production of Ultrasonic Waves, Detection of Ultrasonic Waves, Applications of Ultrasonic waves		
2	2.1	Semiconductor Physics	15	34%
		Semiconductor materials, Energy Bands in solid metals insulators and semiconductor, PN junction, Formation of PN junction, PN junction with Forward and Reverse biasing, V-I Characteristic of a PN junction diode, Zener Diode, Zener Breakdown, V-I Characteristic of a Zener diode, Zener Diode as Voltage Regulator		
	2.2	Half-Wave Rectifier, Full-Wave Rectifier, Centre-tap Rectifier, Bridge Rectifier, Performance of Half-Wave & Full-Wave Rectifier Comparison of Rectifiers, Filter Circuit, Capacitor Filter, Inductor Filter, LC filter, π Filter,		
3	3.1	Electrostatics	15	33%
		The Electric Field, Introduction, Coulomb's law, Continuous Charge Distribution, Electric Potential, Introduction to Potential, Comments on Potential, The Potential of a Localized charge distribution, Work and Energy in Electrostatics, The work done to move a charge, the energy of a point charge distribution Current and Current density, Conservation of charge, Continuity equation, ohm's law at a point, Wiedmann and franz law, the relaxation time		

Reference Books:

- Waves and Oscillation by N.Subrahmanym and Brij Lal Pub: Vikas Publishing House Pvt. Ltd., New Delhi
- Elements of Electronics By Bagde & Singh Publisher : S.chand





- A Text Book of OPTICS By N.Subrahmanyam, Brijlal, M.N. Avadhanulu Publisher: S.chand.
- Introduction to Electrodynamics by David J. Griffiths Publisher: Prentice Hall India 3rd edition
- Electricity and Magnetism by K.K.Tiwari Pub: S.Chand & Company Ltd.
- Fundamentals of OPTICS By Gulati and Khanna Publisher: R.Chand
- Physics – Resnick and Holiday
- Principles of electronics by V.K.Mehta, S.Chand
- Electronics Device and Circuits by Allen Mottershead Pub: PHI
- Heat and Thermodynamics by Zeemansky
- Heat and Thermodynamics by A.B. Gupta and H. P. Roy (New Central Book)

LIST OF EXPERIMENTS

- 1) To determine the unknown frequency of Tuning Fork by Melde' s Experiment.
- 2) To Verify the Laws of vibrating strings by Melde's Experiment.
- 3) To study Half-Wave Rectifier.
- 4) To Study of a Transformer.
- 5) To study Characteristics of Photo diode.
- 6) Study of line spectra.
- 7) To study Bridge Rectifier
- 8) Find out Refractive index of prism using Spectrometer.
- 9) To study Zener diode Characteristics

Reference Books:

- B.Sc. Practical physics By C.L.Arora Pub: S.chand.
- A text book of Practical Physics By Indu Prakash & Ramkrishna Pub: Kitab Mahal, New Delhi.





- Practical Physics By S.L.Gupta and V. Kumar Pub: Pragati Prakashan, Meerut.
- B.Saraf et al-Physics through experiments Vol. I & II.

CO-PO & CO-PSO Mapping

Course Outcomes	Program Outcomes										
	1: - Less relevant, 2: - Mild relevant, 3: - Highly relevant										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2
CO1	3	3	3	1	1			1		3	3
CO2	3	3	3			1		1		2	2
CO3	3	3	3		1			1		2	3
CO4	3	3	3		1	1		1	1	1	1
CO5	2	2	2		1	1	1	1	1	1	1
CO6				1				1	1	1	1
CO7					1	1				1	1





GOKUL GLOBAL UNIVERSITY, SIDHPUR

Programme Code		DPPHY		Programme Name	Diploma Programme of Physical Science		
Course Code		DPPHY301DSC		Semester	III		
OPTICS, MODERN PHYSICS & LASER(OMPL)							
Course type:		Discipline Specific Course		Total Credit:	Theory	Practical	Total
					3	1	4
Teaching time (hours)		Examination Marking scheme					
Theory (hrs.)	Practical (hrs.)	Internal (Marks)		External (Marks)	Total (Marks)		
		Theory	Practical	Theory	Theory	Practical	Total
3 X 15 = 45	15X2=30	25	25	50	75	25	100

Pre-requisite : The students must have core subjects like Math's, Physics, and Chemistry in their First and second semester level.

Rationale : Knowledge of the fundamentals of Optics and Modern Physics functioning of Optical devices can assist a every human being to better communicate with optical instrument and modern physical phenomena's collaborating for the design/manufacturing of these systems

Course Objective:

The objective of the course to impart fundamental knowledge about some selected aspects of physics. The topics include Diffraction, Resolving power, Polarization, Laser, Modern Physics. Some industry relevant topics are also covered under which basic concepts are taught.

Course Outcome:

- (VIII) The student will be able to understand different kind of diffraction types and its comparison between single slit and double slit grating and also understand resolving power of different optical instruments and its types.
- (IX) The student understands about polarization, types of polarized light, its production method, refraction types, and about laser types, properties, applications.
- (X) In this section student understand about orbital and magnetic dipole moment, different conditions of it, different laws to support this theorem.





Unit	Topic	Content	Hours	Weightage
1	1.1	Diffraction	15	34%
		Distinction between Interference and diffraction (17.6), Fresnel and Fraunhofer types of diffraction (17.7), Fraunhofer diffraction at a double slit (18.4), Fraunhofer diffraction at double slit (Calculus method),(18.4.1), Distinct between single slit and double slit diffraction pattern (18.4.2), Fraunhofer diffraction at N slit (18.6 & 18.6.1), Plane diffraction grating (18.7), Theory of plane transmission grating (18.7.1), Dispersive power of Grating (18.7.7).		
	1.2	Resolving Power		
		Resolving Power of Optical Instrument (19.5), Resolving Power of a telescope (19.7), Relation between magnifying power and resolving power of a telescope (19.7.1), Resolving Power of a Plane transmission grating (19.12).		
2	2.1	Polarization	15	33%
		Introduction (20.1), Polarization by double refraction (20.5.5), Double refraction (20.8.3), Huygens' explanation of double refraction (20.9 & 20.9.1), Types of polarized light, (20.15), Retarders or Wave plates(20.17), Quarter wave plate (20.17.1), Half wave plate(20.17.2),Production of Elliptically polarized light(20.18), Detection of Elliptically polarized light(20.18.1).		
	2.2	Laser		
		Introduction (6.1), Properties of Lasers (6.2), Stimulated absorption, spontaneous emission and stimulated emission (6.3), Population inversion (6.5), Pumping (6.6), Main components of a laser (6.7), Nd:YAG Laser (6.8), Helium-Neon laser (6.9), CO ₂ laser (6.10), Semiconductor lasers (6.11), Applications of Laser (6.12 & 6.13)		
3	3.1	Modern Physics	15	33%
		Orbital and Magnetic Dipole Moment (4.1), Larmor Precession (4.2), Space quantization (4.3), Electron spin (4.4), Vector model of atom (4.5), Spectroscopic terms and their notations (4.6), Stern Gerlach Experiment (4.7), Pauli's Exclusion Principle (4.8). Zeeman Effect- Normal Zeeman Effect and anomalous Zeeman Effect (12.1), Explanation of Normal Zeeman Effect (12.2),		





	Explanation of Anomalous Zeeman Effect (12.3), Paschan back effect (12.4).		

Reference Books:

- Principles of Optics by B.K. Mathur
- Optics by Ajoy Ghatak
- Fundamentals of Optics by Jonkin's and White
- Engineering Physics by K. Rajgopal
- Atomic & Molecular spectra by Rajkumar Kedarnath Prakashan Meerut
- Engineering Physics by R.K Gaur and S.L. Gupta
- Concepts of Modern Physics by Arther Beiser.

Suggested Readings:

- A text book of OPTICS by Dr. N, Subrahmanyam, Brijlal, Dr, M,N, Avadhanulu - S.Chand
- A Text book of Light by D.N.Vasudeva - S. Chand & Co.

Online Resources:

1. <https://en.wikipedia.org/wiki/Diffraction>
2. <https://testbook.com/learn/physics-diffraction-of-light/>
3. <https://www.olympus-lifescience.com/en/microscope-resource/primer/lightandcolor/diffraction/>
4. <https://byjus.com/physics/resolving-power-of-microscopes-and-telescopes/>
5. <https://www.britannica.com/technology/resolving-power>
6. http://labman.phys.utk.edu/phys136core/modules/m9/resolving_power.html
7. <https://byjus.com/physics/polarization-of-light/>
8. <https://www.physicsclassroom.com/class/light/Lesson-1/Polarization>
9. [https://en.wikipedia.org/wiki/Polarization_\(waves\)](https://en.wikipedia.org/wiki/Polarization_(waves))
10. <https://www.geeksforgeeks.org/polarization-of-light-definition-types-methods-applications/>
11. <https://www.vedantu.com/physics/polarisation-of-light>
12. <https://www.edmundoptics.in/knowledge-center/application-notes/optics/introduction-to-polarization/>





13. <https://science.howstuffworks.com/laser-weapon.htm>
14. <https://www.ulsinc.com/learn>
15. <https://www.rp-photonics.com/lasers.html>
16. <https://openstax.org/books/university-physics-volume-3/pages/8-2-orbital-magnetic-dipole-moment-of-the-electron>
17. <https://opentextbc.ca/universityphysicsv3openstax/chapter/orbital-magnetic-dipole-moment-of-the-electron/>

Practical / Activities:

- 1) Resonance pendulum. Determination of „l“, „r“ & „a“
- 2) Study of X-ray diffraction (Powder) Pattern.
- 3) Decay of Temperature when body is allowed to cool. (thermocouple)
- 4) To study elliptically polarized light using photocell and quarter wave plate.
- 5) To determine λ using Hertzman formula
- 6) Activation energy of a semiconductor
- 7) Absorption co-efficient of liquid using photocell.

Reference Books:

- B.Sc. Practical physics By C.L.Arora Pub: S.chand.
- A text book of Practical Physics By Indu Prakash & Ramkrishna Pub: Kitab Mahal, New Delhi.
- Practical Physics By S.L.Gupta and V. Kumar Pub: Pragati Prakashan, Meerut.
- B.Saraf et al-Physics through experiments Vol. I & II.

CO - PO Competency and Program Indicators (PI)

Course Outcomes	Program Outcomes										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2
CO1	3	3	3	1		1	2	2		1	1
CO2	3	2	1	1	1			1		2	1
CO3	3	2	2						1	1	1





GOKUL GLOBAL UNIVERSITY, SIDHPUR

Programme Code		DPPHY		Programme Name	Diploma Programme of Physical Science		
Course Code		DPPHY302DSC		Semester	III		
SOLID STATE, NUCLEAR & MATHEMATICAL PHYSICS(SSNM)							
Course type:		Discipline Specific Course		Total Credit:	Theory	Practical	Total
					3	1	4
Teaching time (hours)		Examination Marking scheme					
Theory (hrs.)	Practical (hrs.)	Internal (Marks)		External (Marks)	Total (Marks)		
		Theory	Practical	Theory	Theory	Practical	Total
3 X 15 = 45	15X2=30	25	25	50	75	25	100

Pre-requisite : The students must have core subjects like Maths, Physics, and Chemistry in their B.Sc. First year level.

Rationale : Clearing the concepts of atomic cohesion and crystal binding, atomic spectra, elementary particles, detectors, radioactivity, Q-Equation, Fourier series and co-Ordinator transformation can assist to better communicate for the understand about atom binding, its structure, different types of elements, and its transformation methods to understand it.

Course Objective:

- The objective of the course to impart fundamental knowledge about some selected aspects of physics. The topics include atomic cohesion and crystal binding, atomic spectra, elementary particles, detectors, radioactivity, Q-Equation, Fourier series and co-Ordinator transformation. Some industry relevant topics are also covered under which basic concepts are taught.

Course Outcome:

- The student will be able to understand cohesion of atom, different types of bond, different crystal structure, and some properties of acting on it and also learn about its related experimental model
- In this unit student will learn about elementary classification of particle, types of detectors, about radioactivity, and about the Q-equation.





- (XIII) In this unit student will learn about Fourier series, application and different function of it, and also learn about co-ordinate transformation.

Content

Unit	Description in detail	Credit	Weightage
I	Atomic Cohesion and Crystal Binding:	1	30 %
	Cohesion of Atoms(2.1), Primary Bonds (2.2), The Covalent Bond (2.2.1), The Metallic Bond (2.2.2), The Ionic Bond (2.2.3), Mixed Bond (2.2.4), Secondary Bonds(2.3), The Vander wall's Bond (2.3.1), The Hydrogen Bond (2.3.2), The Cohesive Energy(2.4), Ionic Crystal (2.4.1), Noble Gas Crystal (2.4.2), Atomic Radi.Vs Lattice constants (2.5), Elastic constants of crystals (2.6), Elastic Stress (2.6.1), Elastic strain(2.6.2), Dilation(2.6.3), Elastic Compliance and Stiffness constant (2.7), Elastic Energy density (2.7.1), Application to Cubic crystal (2.7.2), Bulk Modulus and compressibility (2.7.3).		
	Atomic Spectra:		
	Franck-Hertz experiment, Critical potentials Shortcomings of Bohr's Theory, Summerfield extension of Bohr theory		
II	Elementary Particles	1	45 %
	Fundamental interactions in Nature (21.1), Dawn of elementary particle physics (21.2), Mediator of an interaction, (21.2.1), Pi-Mesons (21.2.2), Muons, Kaons and hyperons (21.2.3), Particles and antiparticles (21.3), Classifications of elementary particles (21.4)		
	Detectors:		
	Introduction (1.1.1), Detectors for Nuclear Particles (1.1.3), (i) Proportional Counter (ii) Semiconductor detectors,		
	Radioactivity:		
	(Review of Radioactive decay laws, half-life, mean life time etc.) Radioactive growth and decay (2.6) Ideal equilibrium (2.7) Transient equilibrium and secular equilibrium (2.8) Radioactive series (2.9)		
	The Q- Equation:		
	Introduction (3.1), Types of Nuclear Reactions (3.2), The Balance of Mass and Energy in Nuclear Reactions (3.3), The Q-Equation (3.4), Solution of the Q Equation (3.5).		
III	Fourier series:	1	25 %
	Introduction (7.1), Periodic functions (7.2), Application of Fourier series (7.3), Average values of a function (7.4), Fourier Co-efficient		





	(7.5), Dirichlet's conditions (7.6), Complex form of Fourier series (7.7), Parseval Theorem		
	Co-ordinate Transformation:		
	Curvilinear Coordinates (10.6), Scale factors and basis vectors for orthogonal systems (10.7)		

Reference Books:

- Mathematical method for physical sciences by M. L. Boss John Wiley Publication.
- Concepts of Modern Physics by Arther Beiser.
- Introduction to Solid State Physics by C. Kittel (John Willey)
- Fundamental of Solid-State Physics by Saxena, Gupta, Saxena (Pragati Prakashan)
- Solid State Physics by C. M. Kachhawa
- Engineering Physics by R.K Gaur and S.L. Gupta

Suggested Readings:

- Elements of Solid-State Physics. (2003) by J. P. Srivastava, PHI
- Nuclear Physics by S.B. Patel (New age International (p) Ltd. Publishers)
- Modern physics by G. Aruldas, P. Rajagopal

Online Resources:

18. http://www.vpscience.org/materials/US04CPHY22_UNIT4.pdf
19. <https://byjus.com/physics/atomic-spectra/>
20. <https://www.livescience.com/65427-fundamental-elementary-particles.html>
21. https://en.wikipedia.org/wiki/Particle_detector
22. <https://www.sciencedirect.com/topics/physics-and-astronomy/radioactivity#:~:text=Radioactivity%20is%20the%20phenomenon%20of, mass%20being%20converted%20to%20energy.>
23. [https://chem.libretexts.org/Bookshelves/Physical_and_Theoretical_Chemistry_Textbook_Maps/Supplemental_Modules_\(Physical_and_Theoretical_Chemistry\)/Equilibria/Chemical_Equilibria/The_Reaction_Quotient#:~:text=This%20means%20that%20in%20the,there%20would%20be%20at%20equilibrium.](https://chem.libretexts.org/Bookshelves/Physical_and_Theoretical_Chemistry_Textbook_Maps/Supplemental_Modules_(Physical_and_Theoretical_Chemistry)/Equilibria/Chemical_Equilibria/The_Reaction_Quotient#:~:text=This%20means%20that%20in%20the,there%20would%20be%20at%20equilibrium.)
24. <https://byjus.com/maths/fourier-series#:~:text=A%20Fourier%20series%20is%20an,the%20sine%20and%20cosine%20functions.>





25. <http://motion.cs.illinois.edu/RoboticSystems/CoordinateTransformations.html>

26. <https://www.continuummechanics.org/coorxforms.html>

27. <https://math.etsu.edu/multicalc/prealpha/chap3/chap3-1/printversion.pdf>

Practical / Activities:

LIST OF EXPERIMENTS

- 10) Study of B.G.: To determine current sensitivity, volt sensitivity, figure of merit and Rg of B.G.
- 11) High resistance by equal deflection method.
- 12) Low resistance by Carry foster bridge.
- 13) To determine low value of „C“ using Schering bridge.
- 14) Characteristics of UJT & Determination of RBB, VD & h
- 15) Characteristics of a Photodiode
- 16) To verify Demorgan's Theorems using IC-7400.

CO - PO Competency and Program Indicators (PI)

Course Outcomes	Program Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	3			2	2					
CO2	3	2	1	1				2	1			
CO3	3	2	2		2			1				





GOKUL GLOBAL UNIVERSITY, SIDHPUR

Programme Code		DPPHY		Programme Name	Diploma Programme of Physical Science		
Course Code		DPPHY401DSC		Semester	IV		
ELECTROMAGNETISM, ELECTRONICS & PLASMA PHYSICS (EMEP)							
Course type:		Discipline Specific Course		Total Credit:	Theory	Practical	Total
					3	1	4
Teaching time (hours)		Examination Marking scheme					
Theory (hrs.)	Practical (hrs.)	Internal (Marks)		External (Marks)	Total (Marks)		
		Theory	Practical	Theory	Theory	Practical	Total
3 X 15 = 45	15X2=30	25	25	50	75	25	100

Pre-requisite : The students must have core subjects like Maths, Physics, and Chemistry in their Higher Secondary level.

Rationale : Knowledge of the fundamentals of electronics and major functioning of electronic devices can assist a mechanical engineer to better communicate with electrical and electronics engineers collaborating for the design/manufacturing of these systems.

Course Objective:

- (ii) The objective of the course to impart fundamental knowledge about some selected aspects of physics. The topics include Electrostatics in Dielectric, Magnetic Potentials, Magnetic Vector Potential, Magnetization, Transistors Biasing and Stabilization, Basic Transistor Amplifier and it's parameters, different Solid state Devices and Types of A.C. Bridges. Also here students learn Digital electronic and they get Number systems like Decimal, Binary, Hexadecimal and Octal and its conversions, different type subtractor. They also introduce with concept of plasma. In Plasma, study on Composition and Characteristics of a Plasma.

Course Outcome:

- The student will be able to known different kind of Magnetization, transistor biasing and different types A.C Bridge.
- They Develop their basic communication skills through working in groups in performing the laboratory experiments and by interpreting the results
- They also develop their basics instrumental knowledge with experiment skill and active their digital electronic calculation skill. They also get plasma related knowledge.





Content

Unit	Description in detail	Credit	Weightage
I	Electrostatics in Dielectric:	1	32 %
	Gaseous Non-Polar Dielectrics (2.11), Gaseous Polar Dielectrics (2.12), Non- Polar Liquids (2.13), Solid Dielectrics-Electrets (2.14).		
	Magneto statics:		
	The Magnetic Potentials (4.9- a & b), Magnetic Vector Potential due to Small Current Loop (4.12), An alternative method for finding the Vector Potential A and the Field B due to Current Loop (4.13), Magnetization (4.15), Magnetic Field Vector (4.16), Magnetic Susceptibility and Permeability (4.17), Boundary Conditions (4.18), Uniformly magnetized Sphere in External Magnetic Field (4.19), A Comparison of Static Electric and Magnetic Fields (4.20).		
II	Transistors Biasing and Stabilization:	1	33 %
	Bias Stabilization (Operating point stabilization) (8.7, 8.7.1 & 8.7.2), Stability factor (8.8), Stabilization by Collector Base Resistance (8.9) Stabilization by potential divider and Emitter resistor (8.10)		
	Basic Transistor Amplifier:		
	Transistor as a four pole (9.2), h-parameters with h-parameters equivalent circuit (9.5 complete), Grounded Emitter Circuit - Mathematical analysis using h parameters only (9.6), Comparative Study of three types of Amplifiers (9.9).		
	Solid state Devices:		
	JFET (12.1 to 12.6), UJT (26.6, 26.6.1 to 26.6.3).		
III	A.C. Bridges:	1	35 %
	A.C. Bridges (17.5), Maxwell Bridge (17.6.1), Schering Bridge.		
	Digital Electronics:		
	Introduction (21.1), Number systems used in Digital Electronics (21.2), Decimal, Binary, Hexadecimal and Octal (21.2.1 to 21.2.4), Binary Codes-(A) BCD, (B) Gray, (C) Excess-3 Codes (21.4), Arithmetic Circuits – Exclusive - OR Gate (21.9), Applications of X-OR Gate: (i) Binary to Gray Code Converter (ii) A Parity Checker (iii) The Half Adder (iv) The Full Adder (v) Parallel Adder (vi) Half subtractor (vii) Full subtractor.		
	The Basic concepts of Plasma:		





	Introduction (1.1), Composition and Characteristics of a Plasma (1.2), Collisions (1.3), Elastic collisions (1.3.1), Inelastic collisions (1.3.2), Surface Phenomena (1.4), Transport Phenomena (1.5), Diffusion and Mobility (1.6), Viscosity, Conductivity (1.7), Recombination (1.8), Ohm's law (1.9), Gas Discharge (1.10), Composition of various natural and Man-made Plasma (1.11), Plasma diagnostics (1.12), Plasma waves and Instabilities Confinement of Plasma (1.13), Space Plasma (1.14).		

Reference Books:

- Electromagnetic by B.B. Laud, New Age Int. Publisher
- Hand book of Electronics by Gupta & Kumar 30th Revised Edition, 2002 Pragati Prakashan
- Electronics and Radio Engineering by M.L. Gupta (9th Edition-2002) D Raj & Sons
- Electricity and Magnetism by Maharajan and Rangwala, THM
- Electronic Devices and Circuits by A. Mottershead Prentice – Hall of India.
- Basic Electronics and Linear Circuits by N.N. Bhargava, D.C. Kulshreshtha, S.C. Gupta McGraw
- Electricity and Magnetism Berkeley Physics course Vol.-II by EDWARD M PURCELL.
- Integrated Electronics by Millman & Halkias.

Suggested Readings:

- Electricity and Magnetism By K.K. Tewari (S.Chand. & Company Ltd.)
- Elements of Plasma Physics by S.N. Goswami New Central book Agency (P) Ltd., Calcutta.
- Advanced Magneto hydrodynamics by J. P. Goedbloed; Rony Keppens; Stefaan Poedts.
- Plasma Physics An Introduction By Richard Fitzpatrick





Online Resources:

- <https://www.electronics-tutorials.ws/>
- www.youtube.com
- <https://www.britannica.com/science/plasma-state-of-matter/Plasma-oscillations-and-parameters>
- <http://silas.psfc.mit.edu/introplasma/>

Practical / Activities:

1. Coaxial Viscometer
2. To determine wave length of bright lines of mercury light using grating.
3. R.P. of Telescope
4. Searl's Goniometer. Determination of cardinal points and do
5. Kundt's tube. Determination of "y"
6. Diffraction by Adser 'A' Pattern
7. e/k by Power Transistor

Reference Books:

- B.Sc. Practical physics By C.L.Arora Pub: S.chand.
- A text book of Practical Physics By Indu Prakash & Ramkrishna Pub: Kitab Mahal, New Delhi.
- Practical Physics By S.L.Gupta and V. Kumar Pub: Pragati Prakashan, Meerut.
- B.Saraf et al-Physics through experiments Vol. I & II.

CO - PO Competency and Program Indicators (PI)

Course Outcomes	Program Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	3		1				2			
CO2	2	2	1	1			1	1				
CO3	2	1	1			1						





GOKUL GLOBAL UNIVERSITY, SIDHPUR

Programme Code		DPPHY		Programme Name	Diploma Programme of Physical Science		
Course Code		DPPHY402DSC		Semester	IV		
QUANTUM MECHANICS, SOLID STATE & THERMODYNAMICS (QMSST)							
Course type:		Discipline Specific Course		Total Credit:	Theory	Practical	Total
					3	1	4
Teaching time (hours)		Examination Marking scheme					
Theory (hrs.)	Practical (hrs.)	Internal (Marks)		External (Marks)	Total (Marks)		
		Theory	Practical	Theory	Theory	Practical	Total
3 X 15 = 45	15X2=30	25	25	50	75	25	100

Pre-requisite : The students must have core subjects like Maths, Physics, and Chemistry in their Higher Secondary level.

Rationale : Knowledge of the fundamentals of electronics and major functioning of electronic devices can assist a mechanical engineer to better communicate with electrical and electronics engineers collaborating for the design/manufacturing of these systems.

Course Objective:

- (iii) The objective of the course to impart fundamental knowledge about some selected topics of physics. The topics include Schrodinger Equations, The operator correspondence and the Schrodinger equation for a particle subject to forces , Normalization and Probability Interpretation, Non-Normalizable Wave functions and Box Normalization, Conservation of Probability, Crystal Structure, Some importance crystal structure, Face Centered Cubic Structure, Wigner-Seitz Cells, Miller Indices , Newtonian Relativity, Relativity of Simultaneity, Heat and Thermodynamics, The Helmholtz and Gibb's function, Maxwell's Distribution Law of Velocities Some industry relevant topics are also covered under which basic concepts are taught.

Course Outcome:

- (XIV) The student will be able to relate different kind of Schrodinger Equation. They will be able to explain various Normalization and Probability.
- (XV) Develop basic structure knowing skills through working in groups in performing the laboratory experiments and by interpreting the results.
- (XVI) They learn different types of Relativity concept, Thermodynamics.





Content

Unit	Description in detail	Credit	Weightage
I	1.1.Schrodinger Equations:	1	32 %
	A free particle in one dimension (2.1), Generalization to three dimensions (2.2), The operator correspondence and the Schrodinger equation for a particle subject to forces (2.3), Normalization and Probability Interpretation (2.4), Non-Normalizable Wave functions and Box Normalization (2.5).		
	1.2.Physical Interpretation and Condition on ‘ψ’:		
	Conservation of Probability (2.6), Expectation values, Ehrenfest’s Theorem (2.7), Admissibility Condition on the Wave function (2.8)		
	1.3.Stationary States and Energy Spectra		
	Stationary states: The time Independent Schrödinger Equation (2.9), A particle in a square well potential (2.10), Bound States in a square well ($E > 0$) (2.11), The square well: Non-localized states ($E > 0$) (2.12).		
II	2.1. Crystal Structure:	1	33 %
	Structure, Translational Symmetry, Space, Unit Cell and Primitive Cell, Symmetry Elements in Crystals, The Seven crystal Systems, Coordination Number, some importance crystal structure, Simple Cubic Structure, Body Centered Cubic Structure, Face Centered Cubic Structure, Wigner-Seitz Cells, Miller Indices, The spacing of a set of crystal planes.		
	2.2. Special Theory of Relativity:		
	Newtonian Relativity (14.1), Michelson-Morley experiment (14.2), Special theory of relativity (14.3), Lorentz Transformation (14.4), Consequences of Lorentz Transformation (14.5)-(a) Relativity of Simultaneity (b) the Lorentz-Fitz Gerald length Contraction (c) Time Dilation, Addition of Velocities (14.6), Mass-energy relation (14.8), Space time (14.9), Compton scattering (14.11).		
III	3.1. Heat and Thermodynamics:	1	35 %
	Characteristic functions, Enthalpy, The Helmholtz and Gibb’s function, Two Mathematical Theorems, Maxwell’s equations, The T-ds equations, Energy equation, The Thermal Expansivity, Compressibility, Joule-Kelvin effect (Porous plug Experiment), Liquefaction of Gases by Joule-Kelvin effect.		
	3.2. Kinetic Theory of Gases:		





	Maxwell's Distribution Law of Velocities, Deduction of Maxwell– Boltzmann law, Determination of the values of constants 'a' and 'b', Experimental Test of Maxwell's Law.		

Reference Books:

- Elements of Solid-State Physics. (2003) by J. P. Srivastava, PHI
- Nuclear Physics by S.B. Patel (New age International (p) Ltd. Publishers)
- Mathematical method for physical sciences by M. L. Boss John Wiley Publication.
- Concepts of Modern Physics by ArtherBeiser.
- Introduction to Solid State Physics By C.Kittle (John Willey)
- Fundamental of Solid State Physics By Saxena, Gupta, Saxena (PragatiPrakashan)
- Solid State Physics by C. M. Kachhawa
- Engineering Physics by R.K Gaur and S.L. Gupta

Suggested Readings:

- Modern physics by G. Aruldas, P. Rajagopal
- Nuclear Physics in a Nutshell by Carlos A. Bertulani
- Nuclear Physics: Principles and Applications by John Lilley
- Fundamentals of Physics (Mechanics, Relativity, and Thermodynamics) by R. Shankar
- Heat and Thermodynamics by Pramila Shukla , Shefali Kanwar & Shivani
- An Introduction to the Kinetic Theory of Gases by James Jeans.

Online Resources:

- www.youtube.com
- <https://en.wikipedia.org/>
- <https://galileo.phys.virginia.edu/classes/252/home.html>

Practical / Activities:

- 1) Absolute value of capacity using B.G. or S.G.
- 2) Low resistance by method of Projection
- 3) Comparison of capacity (C1/C2) by Desauty method
- 4) To determine self-inductance by Anderson Bridge





- 5) Characteristics of a C.B. Transistor (PNP)
- 6) Characteristics of JFET & Determination of μ , r_d , g_m
- 7) Construction of AND, OR, NOT Gates using NAND & NOR Universal gates.

CO - PO Competency and Program Indicators (PI)

Course Outcomes	Program Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	3		1				2			
CO2	2	1	2	1		2		2				
CO3	1	2	1				2		1			





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(Recognized by UGC under Section 22 & 2(f) of 1956)
(Gujarat Private State University Act 4 of 2018)

COURSE STRUCTURE

**Bachelor of Science
Microbiology**

**Under
National Education Policy (NEP-2020)**



**Faculty of Science
Gokul Science College**

University Campus, State Highway-41,

Siddhpur - 384151, Dist. Patan, Gujarat, INDIA, Mobile : 9510973863

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PO No.	Program Outcome Description
PO1	Foundational Knowledge: Graduates will possess a strong foundation in the fundamental concepts, theories, and principles of their chosen discipline, as per the prescribed curriculum.
PO2	Practical Skills: Students will acquire practical skills relevant to their field, including laboratory techniques, data collection, analysis, and interpretation.
PO3	Critical Thinking: Graduates will develop critical thinking skills to analyze, evaluate, and solve scientific problems, applying logical reasoning and evidence-based approaches.
PO4	Effective Communication: Students will demonstrate effective communication skills, both orally and in writing, to convey scientific ideas and findings to different audiences.
PO5	Collaboration and Teamwork: Graduates will work collaboratively in teams, engaging in effective communication, cooperation, and coordination to accomplish shared objectives.
PO6	Information Literacy: Students will develop information literacy skills to access, evaluate, and utilize scientific information from diverse sources, including digital resources.
PO7	Ethical Awareness: Graduates will demonstrate ethical awareness and responsibility in scientific practice, understanding the importance of integrity, honesty, and ethical conduct.
PO8	Lifelong Learning: Students will develop a commitment to lifelong learning, staying updated with advancements in their field and engaging in continuous professional development.
PO9	Societal Impact: Graduates will recognize the social and ethical implications of scientific knowledge and contribute positively to society through their discipline.

PSO No.	Program Specific Outcome Description
PSO1	Microbiological Proficiency: Graduates of the B.Sc. Microbiology program will acquire in-depth knowledge of microorganisms, their structure, physiology, and genetics. They will demonstrate proficiency in microbiological techniques, including isolation, identification, and characterization of microorganisms.
PSO2	Applied Microbiology and Research Skills: Graduates will apply their knowledge of microbiology to solve practical problems in various sectors such as healthcare, agriculture, and environmental management. They will possess research skills to investigate microbial processes, conduct experiments, and analyze and interpret microbial data.





GOKUL GLOBAL UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF MICROBIOLOGY												
Sr. No.	Course	Level	Semest er	Course Type	Course Code	Course Name	Duration in Hrs.		Cred it	Max. Marks	Total	
							Theor y	Practic al		CCE(Formati ve) (weekly test/ Assignment/ Attendance/ Practical/ Viva/ Group Discussion/ Quiz)	SEE (Sum mati ve)	
1	Certific ate	UG	I	Discipline Specific Course (Major-1)	CPMIC101 DSC	Introduction to microbial world	45	30	4	50	50	100
2				Discipline Specific Course (Major-2)	CPBOT101 DSC	Introduction of plant world	45	30	4	50	50	100
3				Discipline Specific Course (Minor)	CPCHE101 DSC/CPZO O101DSC	General Chemistry-I/non chordates i – protista to psedocoelomates	45	30	4	50	50	100
4				Multi Disciplinar y Course	CP101MDC	Basics of computer application	45	30	4	50	50	100
5				Ability Enhancmen t Course	CP101AEC	Communication Skills-1	30	---	2	25	25	50
6				Indian Knowledge System	CP101IKS	Indian Constitution	30	---	2	25	25	50
7				Skill Enhancmen t Course	CP101SE	Photography Basics	30	---	2	25	25	50
Tot al							270	120	22	275	275	550





GOKUL GLOBAL UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF MICROBIOLOGY

GOKUL GLOBAL UNIVERSITYFACULTY OF SCIENCEDEPARTMENT OF MICROBIOLOGY												
Sr. No.	Course	Level	Semester	Course Type	Course Code	Course Name	Duration in Hrs.	Credit	Max. Marks	Total		
							Theory	Practical		CCE(Formative) (weekly test/ Assignment/ Attendance/ Practical/ Viva/ Group Discussion/ Quiz)	SEE (Summative)	
1	Certificate	UG	II	Discipline Specific Course (Major-1)	CPMIC201DSC	Systematic bacteriology	45	4	30	50	50	100
2				Discipline Specific Course (Major-2)	CPBOT201DSC	Morphology and tissue system in plants	45	4	30	50	50	100
3				Discipline Specific Course (Minor)	CPCHE201DSC/ CPZOO201DSC	General chemistry-ii/ non-chordates ii coelomates	45	4	30	50	50	100
4				Multi Disciplinary Course	CP201MDC	Basic Statistics	45	4	30	50	50	100
5				Ability Enhancement Course	CP201AEC	Communication Skills-2	30	---	2	25	25	50
6				Value added Course-I	CP201VAC	Fundamentals of Nutrition	30	---	2	25	25	50
7				Skill Enhancement Course	CP201SE	Cyber Security	30	---	2	25	25	50
Total							270	120	22	275	275	550





GOKUL GLOBAL UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF MICROBIOLOGY												
Sr. No.	Course	Level	Semester	Course Type	Course Code	Course Name	Duration in Hrs.		Credit	Max. Marks		Total
							Theory	Practical		CCE(Formative) (weekly test/ Assignment/ Attendance/ Practical/ Viva/ Group Discussion/ Quiz)	SEE (Summative)	
1	Diploma	UG	III	Discipline Specific Course (Major-1)	DPMIC301DSC	MICROBIAL PHYSIOLOGY AND METABOLISM	45	30	4	50	50	100
2				Discipline Specific Course (Major-2)	DPMIC302DSC	SOIL AND WATER MICROBIOLOGY	45	30	4	50	50	100
3				Discipline Specific Course (Major-3)	DPBOT301DSC	MYCOLOGY AND PHYTOPATHOLOGY	45	30	4	50	50	100
4				Multi Disciplinary Course	DP301MDC	ARTIFICIAL INTELLIGENCE(AI) :-Knowledge Representation and Reasoning	45	30	4	50	50	100
5				Ability Enhancement Course	DP301AEC	CREATIVE WRITING ESSENTIAL	30	---	2	25	25	50
6				Indian Knowledge System	DP301IKS	YOGA	30	---	2	25	25	50
7				Skill Enhancement Course	DP301SEC	PRESENTATION SKILLS	30	---	2	25	25	50
Total							270	120	22	275	275	550





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(Gujarat Private State University Act 4 of 2018)

Gujarat Private State University Act 4 of 2016

GOKUL GLOBAL UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF MICROBIOLOGY												
Sr. No.	Course	Level	Semester	Course Type	Course Code	Course Name	Duration in Hrs.		Credit	Max. Marks		Total
							Theory	Practical		CCE(Formative) (weekly test/ Assignment/ Attendance/ Practical/ Viva/ Group Discussion/ Quiz)	SEE (Summative)	
1	Diploma	UG	IV	Discipline Specific Course (Major-1)	DPMIC401DSC	MICROBIAL BIODIVERSITY	45	30	4	50	50	100
2				Discipline Specific Course (Major-2)	DPMIC402DSC	FOOD AND DAIRY MICROBIOLOGY	45	30	4	50	50	100
3				Discipline Specific Course (Major-3)	DPBOT401DSC	ANATOMY OF ANGIOSPERMS	45	30	4	50	50	100
4				Discipline Specific Course (Minor)	DPCHE401DSC		45	30	4	50	50	100
5				Ability Enhancement Course	DP401AEC	PERSONALITY DEVELOPMENT	30	---	2	25	25	50
6				Value added Course-I	DP401VAC	SPORTS AND FITNESS	30	---	2	25	25	50
7				Skill Enhancement Course	DP401SEC	STRESS MANAGEMENT	30	---	2	25	25	50
Total							270	120	22	275	275	550



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GOKUL GLOBAL UNIVERSITY, SIDHPUR									
Programme Code:		CPMIC		Programme Name:		Certificate Programme of Microbiology			
Course Code:		CPMIC101DSC		Semester:		I			
INTRODUCTION TO MICROBIAL WORLD									
Course type:		Discipline Specific Course		Total Credit:		Theory	Practical	Total	
						03	01	04	
Teaching time (hours)		Examination Marking scheme							
Theory (hrs.)	Practical (hrs.)	Internal (Marks)		External (Marks)		Total (Marks)			
15x3=45	15 x2=30	Theory	Practical	Theory		Theory		Practical	Total
		25	25	50		75		25	100

Pre-requisite: Having Passed 12th Science in Biology.

Rationale : Microorganisms contribute to the world in myriads of ways. They have immense importance in our ecosystem and health system. Some of these are explained below.

1. Agriculture: microbes help plants take required nutrients by breaking down complex compounds into simple form. They also make the soil rich in nutrients and minerals that enhance crop yield.
2. Food processing: The study of microbiology has enlightened us on the application of microbes as an essential source of nutrients. For example, some algal and fungal species are part of people's meal such as mushroom, spirulina.

Course Objectives: To complement the students with the basic knowledge about history and scope of microbiology, general characteristics of microorganisms, various microscopic techniques, physical and chemical microbial control.

Course Outcomes: After successfully completion of the course, the student will be able to

- (i) Demonstrate theory in microscopy and their handling techniques and staining procedure.
- (ii) Know Various characteristics of microorganisms and also understand various physical and chemical means of sterilization.





- (iii) Students will gain knowledge about the Binomial nomenclature, Whittaker's five kingdom classification system.
- (iv) Students will also study the Prokaryotic and eukaryotic classification, Spontaneous generation versus biogenesis & germ theory of diseases.
- (v) Students will also study the Contribution of various scientists in microbiology.

Unit	Topic	Content	Hrs.	Weightage
1		Introduction, history and scope of Microbiology	15	33%
	1.1	Microbiology as a field of Biology. Golden era of microbiology		
	1.2	Binomial Nomenclature, Haeckel's Three Kingdom and Whittaker's five Kingdom classification, Prokaryotic and Eukaryotic classification.		
	1.3	Group of microorganisms (Acellular and cellular microorganisms)		
	1.4	Spontaneous generation Versus biogenesis, Germ theory of disease.		
	1.5	Development of various microbiological techniques and contribution of Anton Von Leeuwenhoek, Louis Pasteur, Robert Koch, Joseph Lister, Alexander Fleming, Selman A. Waksman, Sergei N. Winogradsky, Paul Ehrlich, Edward Jenner, Elie Metchnikoff...		
2		General Characteristics of Microorganisms	15	33%
	2.1	Characteristics of Microorganisms: Morphological, Chemical, Cultural, Metabolic, Antigenic, Genetic, Phylogenetic and Ecological.		
	2.2	Microbial Identification, Classification and Nomenclature.		
	2.3	General characteristics, occurrence, structure, reproduction and importance of protozoa.		
	2.4	General characteristics, occurrence, structure, reproduction and importance of fungi.		
	2.5	General characteristics, occurrence, structure, reproduction and importance of virus.		
		Microbial Techniques and Sterilization techniques		
	3.1	Microscopy: Bright field microscopy, Dark field Microscopy, Phase Contrast Microscopy		
	3.2	Fluorescence microscopy, Transmission electron microscopy, Scanning Electron Microscopy		
	3.3	Principles, construction and application of centrifuge; bacteriological Incubator & Incubator Shaker; Spectrophotometer (UV-Vis), Laminar flow; Colorimeter.		





3.4	Definitions of terms- sterilization and disinfection; Sterilization by Physical methods- Use of moist heat- heat under pressure, autoclave, boiling, pasteurization,		
3.5	Fractional sterilization; Use of dry heat- hot air oven, incineration; Filtration- Seitz filter, membrane filter, HEPA filter; Radiation- Ionizing and non- ionizing;		
3.6	Chemical methods- Alcohols, aldehydes, phenols, halogens, metallic salts, ethylene oxide.		

Reference Books

1. Prescott's Microbiology by Joanne Willey and Linda Sherwood
2. Brock Biology of Microorganisms, by Michael T. Madigan and John M. Martinko
3. Microbiology: A Systems Approach by Marjorie Kelly Cowan
4. Foundations in Microbiology by Kathleen Park Talaro and Barry Chess
5. Microbiology by Pelczar, Jr., Michael
6. Microbiology by Jacquelyn G. Black
7. A Textbook of Microbiology by Dubey R.C. and Maheshwari D.K.

LIST OF EXPERIMENTS

1. Safety precautions to work in microbiology laboratory.
2. To study the principle and application of important instruments (autoclave, incubator, hot air oven, pH meter) used in microbiology laboratory.
3. To study the principle and application of important instruments (biological safety cabinets, centrifuge, Spectrophotometer, Colorimeter) used in microbiology laboratory.
4. Introduction of light microscope & its handling.
5. Preparation of culture media for bacterial cultivation.
6. Morphological & cultural characteristics of bacteria.
7. Sterilization of medium using Autoclave and assessment for sterility.
8. Sterilization of glassware using Hot Air Oven and assessment for sterility.
9. Sterilization of heat sensitive material by membrane filtration and assessment





forsterility.

10. Study of Rhizopus using temporary mounts.
11. Study of Penicillium using temporary mounts.
12. Study of Aspergillus using temporary mounts.
13. Study of Spirogyra and Chlamydomonas, Volvox using temporary mounts.
14. Study of the following protozoans using permanent mounts/photograph: Amoeba, Paramecium and plasmodium.
15. Isolation and Cultivation of fungi.

CO-PO & CO-PSO Mapping

Course Outcomes	Program Outcomes/ Program Specific Outcomes (1-Less Relevant, 2- Mild Relevant, 3-Highly Relevant)										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2
CO1	3	2	1	-	2	1	-	2	-	2	2
CO2	2	2	1	-	2	1	-	2	-	2	1
CO3	2	2	1	-	2	1	-	2	-	2	1
CO4	3	-	1	2	2	1	2	2	2	2	1
CO5	2	1	1	-	2	1	-	3	-	2	1





GOKUL GLOBAL UNIVERSITY, SIDHPUR								
Programme Code:		CPMIC		Programme Name:		Certificate Programme of Microbiology		
Course Code:		CPMIC201DSC		Semester:		II		
SYSTEMATIC BACTERIOLOGY								
Course type:		Discipline Specific Course		Total Credit:		Theory	Practical	Total
						03	01	04
Teaching time (hours)		Examination Marking scheme						
Theory (hrs.)	Practical (hrs.)	Internal (Marks)		External (Marks)		Total (Marks)		
15x 3=45	15 x2=30	Theory	Practical	Theory		Theory		Total
		25	25	50		75		100

Pre-requisite: Having Passed 1st semester of B.Sc. in Microbiology.

Rationale : Measuring a bacterial culture's growth rate can inform about their physiological and metabolic functions and useful for obtaining an accurate cell number of the bacteria for downstream applications. The laboratory techniques are very important for pure culture isolation.

Course Objectives: To complement the students with the basic knowledge about bacterial cell organization, Bacterial reproduction, pure culture isolation and preservation, microbial nutrients, various staining methods.

Course Outcomes: At the end of the course, students shall be able to

- Students will gain knowledge about bacterial cell size, shape, arrangement, detail structure of flagella, pilli, cell wall, cell membrane.
- Students will gain knowledge about sexual and asexual bacterial reproduction, Bacterial Growth curve, Different types of culture media.
- Demonstrate theory in laboratory and their handling techniques and staining procedure.
- Students will also study the types of plasmids, chromosome & stages of sporulation.
- Students will gain the knowledge about bacterial classification based on their nutritional requirement & methods used for preservation of bacterial culture.





Unit	Topic	Content	Hrs	Weightage
1		Bacterial cell Organization	15	33.3%
	1.1	Bacterial cell size, Shape and Arrangement.		
	1.2	Composition and details structure of Flagella, Fimbriae and Pili, Capsule.		
	1.3	Structure & function and chemical composition of bacterial and archaeal: Cell Wall and Cell Membrane		
	1.4	Cytoplasm: Ribosome, Mesosomes, Inclusion Body, Nucleoid, Chromosome and Plasmid.		
	1.5	Spore: Structure, Formation, and Stage of sporulation.		
2		Bacterial Reproduction and Pure Culture Isolation	15	33.3%
	2.1	Types of Reproduction methods in bacteria		
	2.2	Logarithmic representation of bacterial population and phase of bacterial growth, Calculation of time and specific growth rate, Factors affecting microbial growth.		
	2.3	Introduction to term: Pure culture, Mix culture, Microbial strain, Microbial colony		
	2.4	Isolation of microorganisms; Serial Dilution method, Enrichment method		
	2.5	Methods for enumeration & isolation of microorganisms using pour plate, spread plate technique, and streak plate method		
3		Microbial Nutrient and Staining method	15	33.3%
	3.1	Bacterial nutrition requirement and categorization.		
	3.2	Introduction to culture media.		
	3.3	Different types of microbial culture media.		
	3.4	Staining techniques, principles, procedures and applications of Simple staining, negative staining; Differential staining- Gram's staining, acid fast staining, Leishman's staining, Giemsa's staining, Ziehl-Neelsen staining; Structural staining- cell wall, capsule, endospore and flagella staining.		





Reference Books

1. Prescott's Microbiology by Joanne Willey and Linda Sherwood
 2. Brock Biology of Microorganisms by Michael T. Madigan and John M. Martinko
 3. Microbiology: A Systems Approach by Marjorie Kelly Cowan
 4. Foundations in Microbiology by Kathleen Park Talaroan BarryChess
 5. Microbiology by Pelczar, Jr., Michael
 6. Microbiology by Jacquelyn G. Black
 7. A Textbook of Microbiology by Dubey R.C. and Maheshwari D.K.
-
- A text book of Practical Physics By Indu Prakash & Ramkrishna Pub: Kitab Mahal, New Delhi.
 - Practical Physics By S.L.Gupta and V. Kumar Pub: Pragati Prakashan, Meerut.
 - B.Saraf et al-Physics through experiments Vol. I & II.

LIST OF EXPERIMENTS

1. Simple staining
2. Negative staining
3. Gram's staining
4. Acid fast staining- permanent slide only
5. Capsule staining
6. Endospore staining
7. Preparation of differential media
8. Isolation of pure cultures of bacteria by streaking method.
9. Preservation of bacterial cultures by various techniques.





10. Motility by hanging drop method.
11. Estimation of CFU count by spread plate method.
12. Cell wall staining: Ringer's method and Dayr's method.
13. Flagella staining: Leifson's method and Loeffler's method.
14. Isolation of microorganisms: Serial dilution method.
15. Estimation of CFU count by Pour plate method.

CO-PO & CO-PSO Mapping

Course Outcomes	Program Outcomes 1: Less relevant, 2: Mild relevant, 3: Highly relevant										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2
CO1	3	2	2	-	1	-	-	2	2	3	1
CO2	2	-	1	1	2	1	-	2	1	2	1
CO3	3	2	1	-	1	2	-	3	2	3	2
CO4	2	-	1	-	2	1	-	2	1	2	2
CO5	3	2	1	1	2	1	-	2	1	2	1





Gujarat Private State University Act 4 of 2010

GOKUL GLOBAL UNIVERSITY, SIDHPUR								
Programme Code:		DPMIC		Programme Name:		Diploma Programme of Microbiology		
Course Code:		DPMIC301DSC		Semester:		III		
MICROBIAL PHYSIOLOGY AND METABOLISM								
Course type:		Discipline Specific Course		Total Credit:		Theory	Practical	Total
						03	01	04
Teaching time (hours)		Examination Marking scheme						
Theory (hrs.)	Practical (hrs.)	Internal (Marks)		External (Marks)		Total (Marks)		
15x 3=45	15 x2=30	Theory	Practical	Theory		Theory	Practical	Total
		25	25	50		75	25	100

Pre-requisite: Having Passed 2nd semester of B.Sc. in Microbiology.

Rationale : Microbial physiology has traditionally played a very important role in both fundamental research and in industrial applications of microorganisms. The classical approach in microbial physiology has been to analyze the role of individual components (proteins, enzymes & genes) in over all cell function. It provides information on source of energy and its utilization by microorganisms.

Course Objectives: To understand the knowledge about Enzymes, co factors, apo enzyme, Microbial growth, Aerobic respiration and fermentation.

Course Outcomes: At the end of the course, students shall be able to

- Students will identify and describe the components of an enzyme, including the prosthetic group, apoenzyme, coenzyme, and cofactors and able to explain how these components contribute to the enzyme's structure and function.
- Students will Gain a foundational understanding of the ingredients and chemical compositions necessary to create effective culture media and learn how various





components such as nutrients, growth factors, buffers, and indicators are used in media formulations.

- (iii) Students will gain a thorough understanding of the basic concepts and principles underlying chemotherapy, including its historical development, key scientific breakthroughs, and the overarching strategies used in the treatment of infectious diseases through chemotherapeutic agents.
- (iv) Students will gain knowledge of competitive, non-competitive inhibition of enzyme, Media formulation, Enzyme classification, Chemotherapy.
- (v) Students will also study EMP, TCA, Pentose Phosphate pathway, Alcohol fermentation, lactate fermentation, Importance of carbohydrates, proteins, lipids, nucleic acid.

Unit	Topic	Content	Hrs	Weightage
1		ENZYMES	15	33.3%
	1.1	General introduction : Physical and chemical properties, Structure of enzymes: prosthetic group, apoenzyme, coenzyme, cofactors.		
	1.2	Localization of enzymes : Extra cellular and intra cellular, Nomenclature and classification of enzymes, IUB system of enzyme classification.		
	1.3	Enzyme action: active sites of enzyme, Mechanism of enzyme action.		
	1.4	Factors affecting enzyme activity, Inhibition of enzyme activity: Competitive and noncompetitive.		
2		MICROBIAL NUTRITION AND GROWTH	15	33.3%
	2.1	Nutritional categories of microorganisms: carbon, Energy and electron donor source.		
	2.2	Culture media: principles of media formulations. Types of media : Routine and specialized media, selective media, differential media, Enriched and Enrichment media, Assay media.		
	2.3	Methods of reproduction in bacteria and new cell formation.		
	2.4	Principles of chemotherapy and general mode of action of various chemotherapeutic agent: Sulphonamides, antibiotics and semi synthetic antibiotics.		





3		BIOMOLECULES AND METABOLISM	15	33.3%
	3.1	Biomolecules: Chemical structure, properties, classification, and biological significance of Carbohydrate, Proteins, lipid and nucleic acids. Introduction to modes of microbial metabolism: Anabolism, catabolism, primary and secondary metabolism.		
	3.2	Concept of aerobic respiration, and fermentation sugar degradation pathways i.e. EMP, ED, pentose phosphate pathway, TCA cycle. Electron transport chain, Gluconeogenesis, cori cycle		
	3.3	Anaerobic respiration : Anaerobic respiration with special reference to dissimilatory nitrate reduction, Anaerobic fermentation: Alcohol fermentation and Pasteur effect, Lactate fermentation.		

Reference Books

1. Microbiology by Pelczar, Jr., Michael
2. General Microbiology stainer R.Y , ingram, Eheelies, M.L. painter, Mac Million India.
3. Introduction to microbiology, J.L, ingram and C.A. Ingram
4. Microbiology, J.G. Black, Edition 5th
5. Biochemistry by U.Satynarayan.

LIST OF EXPERIMENTS

- 1) **Qualitative analysis of biomolecules:** Carbohydrates: Iodine test, Molisch's test, Benedict's test, Barfoed test, Bial's testand Saliwanoff's test.
- 2) **Qualitative analysis of biomolecules:** Proteins: Biurate test, Ehrlich's test, Glyoxilic acid test, Xanthoproteic test
- 3) Determination of absorption maxima of a colored solution (use methylene blue).





4) Study biochemical reaction of bacteria: Based on carbon source.

- i. Oxidative and fermentative breakdown of glucose.
- ii. Fermentation of sugars and sugar alcohol: glucose, xylose, mannitol, lactose, maltose and sucrose.
- iii. Glucose breakdown product: Methyl red test.
- iv. Citrate utilization test.
- v. Starch utilization test.
- vi. Lipid utilization test.

5) Study biochemical reaction of bacteria: Based on nitrogen source.

- i. Indole production test.
- ii. H₂S production test.
- iii. Urea utilization test.
- iv. Casein hydrolysis test.
- v. Gelatin hydrolysis test.
- vi. Deamination test.

6) Study biochemical reaction of bacteria: Other tests.

- i. Catalase test.
- ii. Dehydrogenase test.
- iii. Oxidase test.

CO-PO & CO-PSO Mapping

Course Outcomes	Program Outcomes										
	1: Less relevant, 2: Mild relevant, 3: Highly relevant										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2
CO1	3	-	1	-	2	1	-	2	-	2	-
CO2	2	-	-	1	2	-	-	2	1	2	1
CO3	3	2	1	1	2	2	-	3	2	3	2
CO4	2	1	1	1	2	-	-	2	-	2	2
CO5	2	2	1	1	2	1	-	2	1	2	2





Gujarat Private State University Act 4 of 2018

GOKUL GLOBAL UNIVERSITY, SIDHPUR								
Programme Code:		DPMIC		Programme Name:		Diploma Programme of Microbiology		
Course Code:		DPMIC302DSC		Semester:		III		
SOIL AND WATER MICROBIOLOGY								
Course type:		Discipline Specific Course		Total Credit:		Theory	Practical	Total
						03	01	04
Teaching time (hours)		Examination Marking scheme						
Theory (hrs.)	Practical (hrs.)	Internal (Marks)		External (Marks)		Total (Marks)		
15x 3=45	15 x2=30	Theory	Practical	Theory		Theory	Practical	Total
		25	25	50		75	25	100

Pre-requisite: Having Passed 2nd semester of B.Sc. in Microbiology.

Rationale : Soil microbe's plays important role in the biochemical cycling of elements in the biosphere where the essential elements undergo chemical transformation. Through the process of mineralization organic carbon, nitrogen, irons, Sulphur. Most important aspects of water microbiology are that we acquire numerous diseases from microorganisms found in water. Some of these diseases represent intoxications. One category of intoxication comes from drinking water which contains toxins produced by microorganisms.

Course Objectives: To Study Physicochemical properties of soil, soil microflora, Biochemical transformation in soil, Bacteriological examination of drinking water, Types of waste water, Microbial interaction.

Course Outcomes: At the end of the course, students shall be able to

- Students will study about role of microorganisms in soil, role of microorganisms in sulphur cycle, iron cycle, phosphorus cycle, and nitrogen cycle.
- Students will also learn about Quantitative & Qualitative analysis of drinking water, filtration, and sedimentation, Primary and secondary waste water treatment procedure.
- Students will familiarize with the standard methods and procedures for measuring BOD, COD, and TOC and they will explore real-world applications of BOD, COD, and TOC measurements in various industries, such as wastewater treatment, environmental monitoring, and industrial effluent management.





- (iv) Students will be able to explain the ecological roles and types of microorganisms found in soil and able to prepare soil samples for different methods of studying soil micro flora and identify microorganisms based on morphology.

Unit	Topic	Content	Hrs.	Weightage
1		MICROBIOLOGY OF SOIL	15	33.3%
	1.1	Physicochemical properties of soil, soil as a culture Medium.		
	1.2	Microbial flora of Soil, Role of microorganisms in soil: Mineralization and humus formation.		
	1.3	Methods of studying soil micro flora: Direct microscopic method, agar plate technique, enrichment Culture technique, and buried slide method, Molecular methods for study of Soil microorganism.		
	1.4	Microbial interactions and associations in soil: (i) Neutral, Positive (Symbiosis, Mutualism, Syntrophism, Commensalism, Synergism) and Negative (Antagonism, Competition, Parasitism, Predation) associations, Interaction between plant roots and microorganisms: Rhizosphere and its significance, Mycorrhiza.		
2		MICROORGANISM AS BIOGEOCHEMICAL AGENT	15	33.3%
	2.1	Introduction to biogeochemical transformations in soil: Mineralization and immobilization of elements.		
	2.2	Rotation of elements in nature, Nitrogen cycle: Proteolysis, ammonification, nitrification, denitrification and nitrogen fixation. Sulfur cycle: Sulfur oxidation and reduction, Carbon cycle, Degradation of complex organic compounds, carbon dioxide fixation.		
	2.3	Iron cycle: Iron oxidation and reduction. Phosphorus cycle: Mineralization, immobilization and solubilization of phosphorus		
	2.4	Soil fertility: Role of microorganisms in soil fertility, biofertilizers.		
3		MICROBIOLOGY OF DRINKING WATER AND WASTEWATER		
	3.1	Natural waters: Sources of contamination, Microbial indicators of faecal pollution: Coliforms		





		as indicator. Microbial indicators other than Coliforms. Nuisance organisms in water: Slime forming bacteria, iron and sulfur bacteria and algae.		
	3.2	Bacteriological examination of drinking water: Sampling, Quantitative analysis: Standard Plate Count. Qualitative analysis: Multiple tube fermentation Purification of drinking water: Sedimentation, filtration and disinfection, softening of hard water, use of Reverse Osmosis process.	15	33.3%
	3.3	Types of wastewater, chemical and microbiological BOD, COD and TOC as indicators of strength of wastewater. Methods of wastewater treatment: Primary treatment and secondary treatment. Principles and role of microorganisms trickling filters, activated sludge process, oxidation ponds.		
	3.4	Efficiency of wastewater treatment procedures.		

Reference Books

- 1 Microbiology by Pelczar, Jr., Michael
- 2 Modi H A., (2013), Soil Microbiology, Aavishkar Publishers, Jaipur.
- 3 Atlas R M., (1997), Principles of Microbiology. 2nded. Wm. C. Brown Pub., Iowa, USA
- 4 Alexander M, (1977), Soil Microbiology, 2nded Krieger Publ. Co., Melbourne, FL.

LIST OF EXPERIMENTS

- 1) **Microbiological analysis of soil** -Enumeration of organisms from soil (Standard plate count-Soil).
- 2) Isolation of symbiotic & non-symbiotic nitrogen fixing bacteria from soil.
- 3) Cultivation and isolation of Actinomycetes from Soil sample.





- 4) Cultivation and isolation of Yeast.
- 5) **Microbiological analysis of drinking water.**
 - Standard plate count of drinking water.
- 6) **Microbiological analysis of drinking water.**
 - Determination of MPN of coliforms in water
 - Detection of fecal pollution of water by performing presumptive test, confirmed test and completed test.
- 7) Determination of DO from the water sample.
- 8) Study of ingredient used in culture media: Agar, peptones, amino acids, antibiotics, beef extract, bile salt, blood, casein hydrolysate, water, dyes, gelatin, inorganic salts, meat extract, yeast extract.
- 9) **Study of effect of antibiotics on bacteria :**
 - Study of sensitivity spectrum of antibiotics against the test organism by use of paper disc method and Agar ditch method.

CO-PO & CO-PSO Mapping

Course Outcomes	Program Outcomes										
	1: Less relevant, 2: Mild relevant, 3: Highly relevant										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2
CO1	3	-	1	1	2	-	-	2	-	2	-
CO2	3	3	1	2	2	-	-	3	1	2	2
CO3	3	3	1	1	2	1	-	3	1	3	2
CO4	2	2	1	1	2	-	-	2	-	2	2





GOKUL GLOBAL UNIVERSITY, SIDHPUR								
Programme Code:		DPMIC		Programme Name:		Diploma Programme of Microbiology		
Course Code:		DPMIC401DSC		Semester:		IV		
MICROBIAL BIODIVERSITY								
Course type:		Discipline Specific Course		Total Credit:		Theory	Practical	Total
						03	01	04
Teaching time (hours)		Examination Marking scheme						
Theory (hrs.)	Practical (hrs.)	Internal (Marks)		External (Marks)		Total (Marks)		
15x 3=45	15 x2=30	Theory	Practical	Theory		Theory	Practical	Total
		25	25	50		75	25	100

Pre-requisite: Having Passed 3rd semester of B.Sc. in Microbiology.

Rationale : The diversity of microorganisms is critical to the functioning of the ecosystem, because there is the need to maintain ecological processes such as decomposition of organic matter, nutrient cycling, soil aggregation and controlling pathogens within the ecosystem.

Course Objectives: To complement the students with the knowledge about Biodiversity of Microorganisms, Methods for Biodiversity assessment.

Course Outcomes: At the end of the course, students shall be able to

- Students will gain knowledge about origin of biodiversity, species concept, Levels and Value of biodiversity
- Students will Study about Microscopic methods, Cultural methods, Molecular and genomic methods, Importance of DNA and r-RNA sequence comparison, determination of GC content.
- Students will Learn about the role of biodiversity in ecosystem functioning and stability and Understand the economic benefits of biodiversity (medicinal resources, agricultural diversity, ecotourism).





- (iv) Evaluate the impact of biodiversity on livelihoods and global economies; Recognize the cultural, spiritual, and recreational importance of biodiversity to human societies and Identify human-induced threats to biodiversity (habitat destruction, pollution, overexploitation).
- (v) Students will Study about Physiological, metabolic, Morphological, Cellular and ecological diversity of Fungi, Algae, Protozoa, Virioids, Prions, Lichens etc.

Unit	Topic	Content	Hrs	Weightage
1		INTRODUCTION TO BIODIVERSITY & METHODS OF ASSESSING BIODIVERSITY	15	33.3%
	1.1	What is biodiversity? Origin of life, evolution and origin of biodiversity, species concept.		
	1.2	Evolutionary tree of microorganisms. Value of biodiversity, microbial biodiversity as index of environmental change.		
	1.3	Microscopic methods: Basic microscopy and microscopic analysis in microbial diversity assessment. Cultural methods: Biochemical /Metabolite		
	1.4	Molecular and genomic methods: Molecular context of microbial diversity. Importance of DNA and r-RNA sequence comparison, determination of GC content		
2		BIODIVERSITY AMONG BACTERIA	15	33.3%
	2.1	Morphological and cellular diversity: Diversity in major cell shape and grouping. Diversity in ultra- structure of cell with reference to cell envelope, Cell membrane, cell wall, surface appendages, other cell organelles and spore.		
	2.2	Physiological and metabolic diversity. Diversity in photosynthetic, heterotrophic and autotrophic metabolism.		
	2.3	Ecological diversity: Diversity in major ecosystems.		
	2.4	Diversity in aquatic, marine and extreme environment.		
		BIODIVERSITY AMONG EUKARYOTIC AND ACCELLULAR MICROORGANISMS		
	3.1	Eucarya: Morphological, cellular, physiological, metabolic and ecological characteristics of Protozoans and Slime molds.		





3	3.2	Morphological, cellular, physiological, metabolic and ecological characteristics of Fungi and Algae.	15	33.3%
	3.3	Lichens as consortium of algae and fungi.		
	3.4	Acellular organisms: Viroids and prions.		

Reference Books

1. Modi H.A., (2014), Introductory Microbial world, Shanti Prakashan, Ahmedabad.
2. Atlas R M, Bartha R, (1998), Microbial Ecology: Fundamentals & Applications. 4th edn. Pearson Education.
3. Ogunseitan O., (2005) Microbial Diversity: Form and Function in Prokaryotes, Blackwell Publishing, Malden, MA, Oxford, Victoria.
4. Cambell R., (1983), Microbial Ecology, 2nd edn. Blackwell Scientific Publication.

LIST OF EXPERIMENTS

- 1) Study of ecological diversity amongst bacteria: Cultivation of Acidophilic and Alkaliphilic bacteria.
- 2) Study of ecological diversity amongst bacteria: Cultivation of Halophilic and Non-halophilic bacteria.
- 3) Study of ecological diversity amongst bacteria: Cultivation of Thermophilic and Mesophilic bacteria
- 4) Study of morphological and cultural diversity of Escherichia coli, Enterobacter aerogenes, Staphylococcus aureus, Bacillus subtilis, Bacillus megaterium and Bacillus cereus, S. marcescens.
 - Study of morphological diversity by performing Gram's staining, capsule staining and spore staining.
- 5) Study of cultural / growth diversity using nutrient broth and nutrient agar media.
- 6) Study of metabolic diversity amongst bacteria: Escherichia coli, Enterobacter aerogenes, Proteus vulgaris, Staphylococcus aureus, and Bacillus subtilis by performing various biochemical tests:

(A) Based on carbon metabolism





- i. Methyl Red Test
- ii. Voges-Proskauer (V-P) test,
- iii. Fermentation of sugars and sugar alcohol:
glucose, xylose, mannitol, lactose, maltose and
sucrose,
- iv. Citrate utilization test,
- v. Starch utilization test,
- vi. Lipid utilization test.

(B) Based nitrogen metabolism.

- i. Indole production test
- ii. H₂S production test
- iii. Urea utilization test,
- iv. Casein hydrolysis test
- v. Gelatin hydrolysis test.

(C) Presence of respiratory enzymes.

- i. Catalase test,
- i. Dehydrogenase test,
- ii. Oxidase test.

CO-PO & CO-PSO Mapping

Course Outcomes	Program Outcomes 1: Less relevant, 2: Mild relevant, 3: Highly relevant										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2
CO1	3	-	1	1	2	-	2	2	2	2	-
CO2	2	2	1	1	2	-	-	3	-	2	2
CO3	3	-	1	1	2	-	2	2	2	2	-
CO4	2	-	2	1	2	-	2	3	2	2	-
CO5	3	-	1	1	1	-	-	2	-	2	-





Gujarat Private State University Act 4 of 2018

GOKUL GLOBAL UNIVERSITY, SIDHPUR								
Programme Code:		DPMIC		Programme Name:		Diploma Programme of Microbiology		
Course Code:		DPMIC402DSC		Semester:		IV		
FOOD AND DAIRY MICROBIOLOGY								
Course type:		Discipline Specific Course		Total Credit:		Theory	Practical	Total
						03	01	04
Teaching time (hours)		Examination Marking scheme						
Theory (hrs.)	Practical (hrs.)	Internal (Marks)		External (Marks)		Total (Marks)		
15x 3=45	15 x2=30	Theory	Practical	Theory		Theory		Total
		25	25	50		75		100

Pre-requisite: Having Passed 3rd semester of B.Sc. in Microbiology.

Rationale : Microbiology is important to food safety, production, processing, preservation and storage. Microbes such as bacteria, molds, yeast are employed for the foods production and food ingredients such as production of wine, beer, bakery, and dairy products.

Course Objectives: To complement the students with the knowledge about Food born infection, food born poisoning, food spoilage by microbes and their preservations.

Course Outcomes: At the end of the course, students shall be able to

- Students will learn about microbial flora of food, Major food born diseases, Factors affecting kinds and numbers of microorganisms, Microbial Spoilage of food
- Students will study about Preservation methods such as Pasteurization, sterilization, canning, Refrigeration, Freezing etc.
- Students will study about Biological methods: Generalized scheme for microbiological examination. Direct microscopic examination, CFU, MPN and Bacteriological analysis of milk.





- (iv) Students will gain knowledge about Staphylococcus aureus food poisoning, Botulism, Biochemical changes in food by microbes, Role of microbes in kefir, kumiss, pickles, importance of probiotics,

Unit	Topic	Content	Hrs.	Weightage
1		MICROBES IN FOOD BORNE INFECTION AND POISONING	15	33.3%
	1.1	Food as a substrate for microorganisms Microbial flora of foods: Milk, fruits, vegetables meat, eggs		
	1.2	Factors affecting kinds and numbers of microorganisms: intrinsic and extrinsic		
	1.3	Food and milk borne infections Sources of contamination and Major food and milk borne diseases.		
	1.4	Food poisoning: A. Microorganisms involved, sources of contamination. B. Role of Staphylococcus aureus, Clostridium botulinum and Salmonella spp. C. Molds as poisoning agents		
2		MICROBIAL FOOD SPOILAGE AND PRESERVATION	15	33.3%
	2.1	Microbial Spoilage of food: Causes of spoilage Biochemical changes due to microbes.		
	2.2	Spoilage of milk and milk products, fruits, vegetables, eggs, meat Spoilage of canned foods.		
	2.3	Preservation of food and Milk: General principles		
	2.4	Methods of preservation: i. Use of aseptic handling. ii. High temperature: Pasteurization (with Phosphatase), sterilization, canning. iii. Low temperature: Refrigeration and freezing.		
		MICROBES AS FOOD AND FOOD PRODUCTS WITH THEIR METHODS		
	3.1	Fermented dairy products Starter culture, Cheese: Types, curdling, processing, ripening. Other fermented dairy products Yogurt, cultured buttermilk, Kefir and cultured sour milk.		





		Introduction to probiotics, prebiotics and synbiotics, functional foods.	15	33.3%
3.2		Indian fermented food products: Pickles, idli, Khaman and bread. Microbes as food: Mushrooms, spirulina and yeasts.		
3.3		Biological methods: Generalized scheme for microbiological examination. Direct microscopic examination, colony forming units (CFU), Most probable number (MPN),		
3.4		Bacteriological analysis of milk: Grading of milk - Resazurin test. Determination of efficiency of pasteurization: Phosphatase test.		

Reference Books

1. Frazier W C and Westhoff D C (1988). Food Microbiology, 4th ed. McGraw-Hill, NY
2. Modi H.A., (2009). Dairy Microbiology, Aavishkar Publishers, Jaipur
3. Prescott L, Harley J P, and Klein D A, (2008). Microbiology, 7th ed. Wm C. Brown McGraw Hill, Dubuque IA
4. Pelczar Jr, M J, Chan E C S, Krieg N R, (1986). Microbiology: An Application Based Approach, 5th edn. McGraw-Hill Book Company, NY.

LIST OF EXPERIMENTS

- 1) **Microbiological analysis of Milk**- Standard plate count (SPC) of Milk sample.
- 2) Determination of microbial load of milk by use of MBRT of raw milk, boiled milk and pasteurized milk.
- 3) Detection of acid-fast organisms in milk sample.
- 4) **Microbiological analysis of Food**- Standard plate count (SPC) of food sample.
- 5) Determination of MPN of coliform.
- 6) Determination of MIC (Minimum Inhibitory Concentration)
- 7) Preservation of food and Milk: General Principles & Procedure.





- 8) Bacteriological analysis of milk: Grading of milk - Resazurin test.
- 9) Bacteriological analysis of milk: Methylene blue red test (MBRT).

CO-PO & CO-PSO Mapping

Course Outcomes	Program Outcomes 1: Less relevant, 2: Mild relevant, 3: Highly relevant										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2
CO1	3	-	1	1	2	-	1	2	1	2	-
CO2	2	3	1	1	2	-	-	2	-	2	2
CO3	3	2	1	-	2	-	-	3	-	2	2
CO4	2	-	1	-	2	-	-	2	-	2	-





Program :	BCA	Subject / Branch :	NA
Year :	2023/24	Semester :	I
Course title :	Fundamentals of Programming Language 'C'	Course code :	CPMJDS AFC101
Course type :	Theory	Course credit :	04
Pre-requisite :	Basic Knowledge of Computer		
Rationale :	To introduce students the essentials of computer Programming and programming methodology using C language		

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
0	0	4	Mid	CE	50	100
			30	20		

Course Objective:

1. Students will understand to formulate a computing problem to executable computer program using C language.
2. Students will understand about compiler based programming languages
3. Students will learn concepts of variables, literals, data types, conversions of data types, input and output data and processing of data, inbuilt functions, arrays, header files, conditional and iterative statements.

Course Outcome:

1. Design and implement C programs to solve complex problems.
2. Describe the purpose and usage of basic c concept, control flow statements, looping and branching statements, array.
3. Analyze and predict the output of more complex C programs and identify and correct logical errors in C code.
4. Recognize and recall C language syntax and keywords, data types and their characteristics, variables, control flow statements, looping, array to create logical program structures and their usage.
5. Assess the quality of code in terms of readability, maintainability, and adherence to coding standards.





Content

Unit	Description in detail	Credit	Weightage
I	Introduction to Programming Concepts of Algorithm and Flowcharts, problem solving examples using algorithm and flowchart, Types of Programming languages, Characteristics of higher level language, Compiler and Interpreter Overview of C Introduction Importance of C, Sample C programs, Basic structure of C programs, Programming style, executing of C program Constants, Variables and data Types Introduction, Character Set, C tokens, Keywords and Identifiers, Constants, Variables, Data types, Declaration of Variables, Defining symbolic constants	1	25 %
II	Operators and Expression Introduction, Arithmetic of Operators, Relational Operators, Logical Operators, Assignment Operators, Increment and Decrement Operators, Conditional Operators, Bit-wise Operators, Special Operators, Arithmetic Expressions, Evaluation of expressions, Precedence of arithmetic operators, Type conversions in expressions, Operator precedence and associativity, Mathematical functions. Input & Output Operators Introduction, reading a character, writing a character, formatted input, formatted output.	1	25 %
III	Branching and Looping Introduction Decision making with Simple IF statement, IF ELSE statement, Nesting of IF ELSE statements, The ELSE IF ladder, The switch statement, the ternary (? :) Operator, the GOTO statement. Iterative Statement Introduction WHILE statement, the DO statement, The FOR statement, Jumps in loops Break and continue	1	25 %
IV	Array & String Introduction, One-dimensional, arrays, Two-dimensional arrays, Initialization of two- dimensional arrays, Concept of Multidimensional arrays Handling of Character strings Introduction, Declaring and initializing string variables, Reading strings from terminal, Writing strings to screen, Arithmetic	1	25 %





	operations on characters, Putting string together, String Operations: String Copy, String Compare, String Concatenation And String Length, String Handling functions, Table of strings		

Reference Books:

1. Programming in C, Balaguruswami – TMH
2. C: How to Program, Deitel & Deitel - PHI
3. C Programming Language, Kernigham & Ritchie - TMH

Suggested Readings:

1. Mastering Turbo C, Kelly & Bootle - BPB
2. C Language Programming – Byron Gottfried - TMH
3. Let us C, Yashwant Kanetkar - BPB Publication

Online Resources:

1. <https://www.w3schools.com/>
2. <https://www.tutorialspoint.com/>
3. <https://www.programiz.com/>
4. <https://www.cprogramming.com/>

Course Outcome Fundamentals of Programming Language 'C', CPMJDSAPC101	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)													
	PO -1	PO -2	PO -3	PO -4	PO -5	PO -6	PO -7	PO -8	PO -9	PO -10	PO -11	PO -12	PSO -1	PSO -2
CO-1	2	1				3	3							2
CO-2	3					3	3							
CO-3		3	3			2	3							
CO-4	2					3	3						3	
CO-5	1												3	





Program :	BCA	Subject / Branch :	NA
Year :	2023/24	Semester :	I
Course title :	Database Management System	Course code :	CPMJDSADB101A
Course type :	Theory	Course credit :	04
Pre-requisite :	Knowledge about Database Management System		
Rationale :	DBMS helps to share the data Quickly, effectively and securely and also access the data very fast with the accurate result. It gives to knowledge to the student how the data can be stored and accessed.		

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
			Mid	CE		
4	0	0	30	20	50	100

Course Objective :

1. Make access to the data easy for the user.
2. Protect Data From Physical harm and unauthorized systems.
3. Allow for growth in the data base system.

Course Outcome:

1. Evaluate the security and integrity of a database system
2. Analyze different types of database models (relational, hierarchical, network)
3. Apply normalization techniques to design and optimize database schemas
4. Explain the principles of database management systems in organizing and retrieving information.
5. Recognize fundamental concepts of databases, such as tables, records, fields, and keys and Memorize and list common terms used in database management.



Content

Unit	Description in detail	Credit	Weightage
I	Database and DBMS, Comparison between traditional file V/s DBMS, Characteristics of data in database, Components of database system environment, Functions of DBMS, Advantages and disadvantages of the DBMS, DBMS users, Database administrator, Role of DBA	1	25 %
II	Essentials of Database Design, Three level Architecture of Database- external, conceptual and internal, Data Models concepts: Hierarchical, Network and Relational, Operators, relations, domains and attributes, keys, traditional set operations, special relational operations.	1	25 %
III	The E/R model : Entity, E-R Diagram, Attributes, Relationship & Types, Development stages of E-R diagram & Examples Normalization: Normalization Process, 1 st NF , 2 nd NF, 3 rd NF, demoralization.	1	25 %
IV	Introduction of Database Data type - Text, Number, Auto number, Currency, Boolean, Date/Time, Memo Object – Table, Query, Forms, Reports Controls use in form and report	1	25 %



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Reference Books:

1. Database System Concepts: – Henry F. Korth & Abraham Silberschatz – McGraw Hill Education
2. Introduction to database Management – Navin Prakash -TMH
3. Introduction to Database System C. J. Date (7 Edition) Low Price Edition
4. MS Office Fundamental & Internet

Suggested Readings:

1. Introduction to database Management – Navin Prakash -TMH

Online Resources:

1. <https://www.geeksforgeeks.org/dbms>
2. <https://www.javatpoint.com/dbms-tutorial>
3. <https://www.tutorialspoint.com/dbms/index.htm>

Course Outcome	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)													
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2
Database Management System, CPMJDSCADB101A														
CO-1	1					3	3							
CO-2		3	2		2			2						
CO-3								3				1		
CO-4	3		2			1	3						2	
CO-5						2	3						3	





Program :	BCA	Subject / Branch :	NA
Year :	2023/24	Semester :	I
Course title :	Fundamentals of Computer	Course code :	CPMNDSCAFC102
Course type :	Theory	Course credit :	04
Pre-requisite :	Knowledge about Fundamental of computer and Office Automation Tools		
Rationale :	Student can understand how to reduce manual efforts and store large amount of data in a little space which is very important in day to day task for the speed up information retrieve.		

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
			Mid	CE		
4	0	0	30	20	50	100

Course Objective:

1. To give basic information about the computer system.
2. To give knowledge about computer hardware and computer software.
3. To familiarize students with the use of MS Windows, Internet and E-mail
4. To familiarize students with the use of MS Office-MS Word, MS Excel & MS PowerPoint.

Course Outcome:

1. Identify the basic components of a computer system.
2. Explain the purpose of ribbons, menus, and toolbars in these applications.
3. Describe the process of creating, editing, and formatting text documents.
4. Apply advanced formatting and design techniques.
5. Identify common problems and errors in documents, spreadsheets, or presentations.





Content

Unit	Description in detail	Credit	Weightage
I	Introduction to Computer Fundamentals , Windows OS, Internet and Email Computer, Classification of computers, Parts of a computer, Operating System, Internet, Modem, Web browsers, E-mail, Establishing your email account	1	25 %
II	Introduction to Microsoft Word Basic components of a Word window, Preparing a word document, Editing a prepared document, Adjusting the margin settings, Additional formatting options, Header and Footer options, Border and Shading of page, Drawing options, Inserting images, Mail merge options, Saving a document, Creating a new document, Inserting audio and video files	1	25 %
III	Introduction to Microsoft Excel Enter data in excel workbook, Formatting toolbar, Shortcut to fill a series, Mathematical functions, Editing a data sheet, Format cell, Rename a sheet, Save, Open a workbook, Arrange data in ascending or descending order, Insert new cell column or row, Insert picture or clipart in excel sheet	1	25 %
IV	Introduction to Microsoft PowerPoint How to create a new slide, How to apply animation to slides, Fill background with effects, How to apply sound to slides, How to save a presentation, Opening an existing presentation, Insert new slides with different layout, Editing a slide, Inserting picture to a slide, Inserting media files to PowerPoint slides	1	25 %





Reference Books:

1. MS-Office 2010 Training Guide by Prof. Satish Jain, M. Geetha: Complete guide for Step-byStep Learning Quick and Easy Reference for learning MS Office 2010

Suggested Readings:

1. MS-Office 2010 Training Guide by Prof. Satish Jain, M. Geetha: Complete guide for Step-byStep Learning Quick and Easy Reference for learning MS Office 2010

Online Resources:

1. <https://www.w3schools.com>
2. <https://www.geeksforgeeks.org>
3. <https://support.office.com/>

Course Outcome Fundamentals of Computer CPMNDSCAFC102	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)													
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2
CO-1	3	1		1	2	1	1		2		2		3	
CO-2	3		2		3									2
CO-3	3													2
CO-4	3					2								1
CO-5				2		2		3	2	2		1		1





Program :	BCA	Subject / Branch :	NA
Year :	2023/24	Semester :	I
Course title :	Digital Computer System Architecture	Course code :	CPMDCADC103
Course type :	Theory	Course credit :	04
Pre-requisite :	The students should have a basic Understanding of Digital computer Organization and Architecture or Micro Processors		
Rationale :	It gives information to students which gives the means of interconnectivity for a computer's hardware components as well as the mode of data transfer and processing exhibited.		

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
			Mid	CE		
4	0	0	30	20	50	100

Course Objective :

1. To understand the structure, function and characteristics of computer system.
2. To identify and compare different method for computer I/O.
3. Identify and understand the Number system.

Course Outcome:

1. Recall fundamental concepts and terminology related to computer system architecture.
2. Interpret the purpose and functionality of different components in a computer system.
3. Apply knowledge of computer system architecture to solve problems or design simple systems.
4. Combine knowledge of computer system architecture to design innovative solutions.





Content

Unit	Description in detail	Credit	Weightage
I	Digital & Analog systems, Logic levels and pulse wave forms, digital computer, Major parts of computer, Hardware, Software - Application and System Software Computer generations First generation, Second generation, Third generation, Forth generation, Fifth generation Super Computers, Mainframes, Mini Computers, Palmtop PC, Laptop PC, Personal Computer, Workstations, Mainframe, Supercomputer. Dos, Windows, Linux	1	25 %
II	Communication devices -Modem, NIC, Switch, Hub Keyboard, Mouse, Light pen, Joystick, Scanner, Voice input system, Touch Monitor - CRT terminals (Monitor / VDU) Non – CRT terminals, LCD, Plasma display, LED Printer - Dot matrix printer, Ink jet printer, Laser printer, Line printer, Plotter Magnetic memory - Magnetic disk, Hard disk, Floppy disk, Semiconductor memory - RAM, ROM, Flash memory Optical memory - CD, CD-ROM, CD-RAM, DVD, DVD-ROM, DVD-RAM Cache memory, Physical & Virtual memory	1	25 %
III	Number system - Binary, decimal, octal, hexadecimal Conversion - Binary to decimal, decimal to binary, octal to decimal , decimal to octal, octal to binary, binary to octal, hexadecimal to binary, binary to hexadecimal, hexadecimal to Decimal, decimal to hexadecimal, hexadecimal to octal, octal to hexadecimal Binary arithmetic – Addition, subtraction (simple method)	1	25 %
IV	Logic gates - AND, OR, NOT, NAND, NOR, Exclusive-OR, Exclusive-NOR Data Processing circuit - Decoder, Encoder	1	25 %



Reference Books:

1. Fundamentals of computers – By. V. Rajaraman PHI Publication
2. How computer work: Ron White – Tech media
3. O-Level (Information Technology) - By V.K.Jain (Module- M1.1)
4. Computer Fundamentals: Pradeep K. Sinha & Priti Sinha (BPB)
5. Fundamentals of computers – By. Anand Kumar PHI Publication

Suggested Books:

1. Fundamentals of computers – By. Anand Kumar PHI Publication

Online Resources:

1. <https://edu.gcfglobal.org/en/computerbasics/what-is-a-computer/1/>
2. https://www.tutorialspoint.com/digital_circuits/digital_circuits_logic_gates.htm
3. https://www.tutorialspoint.com/computer_fundamentals/computer_number_system.htm

Course Outcomes	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)													
	PO -1	PO -2	PO -3	PO -4	PO -5	PO -6	PO -7	PO -8	PO -9	PO -10	PO -11	PO -12	PSO -1	PSO -2
Digital Computer System Architecture, CPMDADC103														
CO-1	3				3	1	3						3	
CO-2	3				1	3				2				
CO-3	2		1	1									3	
CO-4	2		2											



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Program:	BCA	Subject / Branch:	NA
Year:	2023/24	Semester:	I
Course title:	Mathematics	Course code:	CPSECAMA106
Course type:	Theory	Course credit:	02
Pre-requisite :	Have basic knowledge of mathematics		
Rationale :	Math allows students to very quickly explore non-trivial "real world" problems that are challenging and interesting.		

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
			Mid	CE		
2	0	0	15	10	25	50

Course Objective:

Introduce concept of mathematical logic for analyzing proposition and proving theorem. Use sets for solving applied problems, and use the properties of set operations algebraically.

Course Outcome:

1. Determine whether or not a given matrix is invertible and if is, find its inverse.
2. Perform the matrix operations of addition, multiplication and express a system of simultaneous linear equation in matrix form.
3. Determine if an infinite sequence is bounded, monotonic or oscillating
4. Recall basic set theory, Function, Matrices and Determinants, Sequence and Series





Content

Unit	Set Theory	Credit	Weightage
I	Definition and notation of Set, Methods of representation of set (Property and List Method), set of numbers (Natural, Integers, Rational, Irrational, Real), Definition: Finite set, Infinite set, Empty set, Singleton set, Subset, Proper subset of a set, Power set, Universal set, Complement of a set, Cardinality of set, Venn Diagrams, Set Operations: Union of two sets, Intersection of two sets, Disjoint sets, Equality of sets, Equivalent sets, Difference set, Symmetric Difference set, Cartesian product of sets, Properties of set operations (Commutative, Associative, Distributive, De Morgan's laws)	1	25 %
II	Function		
	Introduction of Function, Definition of function, Domain, Co-domain, Image and Range of function, Types of function(with example): Linear, Quadratic, Polynomials, Rational, Irrational, Single value and Many value, Even and Odd, Explicit and Implicit The Classification of functions: one-one, many-one, onto, into function, Evaluation of function, Composition of functions, Mathematical functions (Definition with example): Floor and Ceiling function, Integer and Absolute value function, Remainder function, Exponential function, logarithm function and its properties, Recursive function.	1	25 %



Reference Books:

1. Discrete Mathematics -Revised 3rd Edition Authors: **Seymour Lipschutz** and **Marc Lars Lipson**, Publication: McGraw-Hill Education (India) Pvt Limited
2. Elements of Discrete Mathematics -3rd Edition Authors: Chung Laung Liu and Durga Prasad Mohapatra Publication: McGraw-Hill Education (India) Pvt Limited
3. Discrete Mathematics -3rd Edition Author: J. K. Sharma

Suggested Books:

1. Elements of Discrete Mathematics -3rd Edition Authors: Chung Laung Liu and Durga Prasad Mohapatra Publication: McGraw-Hill Education (India) Pvt Limited

Online Resources:

1. <https://www.weareteachers.com/best-math-websites/>

Course Outcomes	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)													
	PO -1	PO -2	PO -3	PO -4	PO -5	PO -6	PO -7	PO -8	PO -9	PO -10	PO -11	PO -12	PSO -1	PSO -2
Mathematics, CPSECAMA1 06														
CO-1	3	2												
CO-2						3	2							
CO-3	2	1												
CO-4		2				3	3			1			2	



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Program :	BCA	Subject / Branch :	NA
Year :	2023/24	Semester :	I
Course title :	Communication Skills - 1	Course code :	CPAECACS104
Course type :	Theory	Course credit :	02
Pre-requisite :	Basic Knowledge of English Language		
Rationale :	To make the students confident and make them aware about their personality development.		

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
2	0	0	Mid	CE	25	50
			15	10		

Course Objective :

1. Students will develop their confidence.
2. Students will understand the importance of personality development and self awareness.
3. Students understand the importance of language and learn different techniques of interview, presentation etc.

Course Outcome:

1. Demonstrate the ability to articulate ideas clearly and confidently in spoken form.
2. Develop active listening skills, enabling them to comprehend and respond appropriately to various communication cues.
3. Enhance their written communication skills, producing clear, concise, and organized written documents.
4. Evaluate the effectiveness of different communication methods.
5. Implement learned communication techniques in real-world scenarios
6. Apply effective communication strategies in digital environments, including email, video conferencing, and social media.





Content

Unit	Theory of Communication	Credit	Weightage
I	Communication → Meaning and Objectives → Process and Importance, → Barriers Methods of Communication → Verbal and Non-Verbal → Horizontal, → Grapevine Steps of Effective Communication	1	25 %
II	Grammar → Parts of Speech → Subject Verb Agreement → Indirect speech → Auxiliaries and Modals → Questions and Negatives	1	25 %

Reference Books:

1. Communication Skills – Vithal Patel
2. English Grammar Composition and Effective Business Communication- Pink and Thomas – S. Chand

Suggested Readings:

1. Story books to increase vocabulary.
2. Listen Motivational videos.
3. Read interested area in English News Papers.

Online Resources:

1. <https://learnenglish.britishcouncil.org/grammar-reference>
2. <https://en.m.wikipedia.org/communication>





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Course Outcomes Communication Skills - 1 CPAECACS104	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)													
	PO -1	PO -2	PO -3	PO -4	PO -5	PO -6	PO -7	PO -8	PO -9	PO -10	PO -11	PO -12	PSO -1	PSO -2
CO-1						2	3		3		3			
CO-2									3	1				
CO-3		2										2		
CO-4									3					
CO-5									3	2				
CO-6	1					2	3							



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Program:	BCA	Subject / Branch:	NA
Year:	2023/24	Semester:	I
Course title:	Understanding India	Course code:	CPIKSAUI105
Course type:	Theory	Course credit:	02
Pre-requisite :	knowledge of its diverse history, cultural richness, and socio-economic dynamics.		
Rationale :	Acquiring knowledge about India is key for fostering cross-cultural understanding and participating in a globally interconnected world.		

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
			Mid	CE		
2	0	0	15	10	25	50

Course Objective:

1. The course aims at enabling the students to acquire and demonstrate the knowledge and understanding of contemporary India.
2. The course would also focus on developing an understanding among student-teachers of the Indian knowledge systems, the Indian education system, Indian tradition, art and culture and the roles

Course Outcome:

1. Demonstrate the ability to list key historical events, dates, and facts about India.
2. Identify and memorize important geographical features and landmarks of India.
3. Apply knowledge of India's political system to analyze current events.
4. Analyze the cultural influences on art, literature, and architecture in India.



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Content

Unit		Credit	Weightage
I	Concept of Bharatvarsh: – Understanding Of Bharatvarsh. – The Land of India: Landscape, Mountains and Rivers. – The Glory of Indian Literature: Ved, Vedanga, Upanishads, Smriti, Puranas. – Jain And Buddhist Literature. – The Name of Our Country: Jambudvipa, Sindhu (Indus), Inde, Hind, Hindustan, Bharat India	1	25 %
II	Indian tradition, art and culture. – Architecture and Sculpture: Indus Valley town planning, rock cut architecture, major styles of temples, Mughal architecture, modern and contemporary architecture, stone and metal sculpture – Painting: Ajanta murals, Mughal paintings, Madhubani paintings, paintings of Jharkhand (Kohbar, Sohrai, Jadopatia, etc.). – Music and Dance: Overview of various forms of music and dances in India; Chau dance of Jharkhand and Odisha – Science, Technology and Medicine: A general survey of the progress of science, technology and medicine in ancient India	1	25 %





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Reference Books:

1. A.S. Altekar, Education in Ancient India, Nand Kishor's & Bros. Varasani, 1944.
2. Bhagvadt: Brahad Bharat Ka Itihas, Pranav Prakashan, New Delhi
3. Narendra Mohan: Bharatiya Sanskruti, Prabhat Prakashan, Delhi 2005
4. Satish Chandra Mittal: Bharatiya Sanskruti ke char adhyay, akhil bharatiya itihas sankalan yojana, Delhi 2018
5. R.K. Shrivastava: Prachin Bharat ka Itihas tatha Sanskruti.

Suggested Books:

1. "India: A History" by John Keay
2. "The Argumentative Indian" by Amartya Sen

Online Resources:

1. www.indiatoday.in
2. www.understandingindia.in

Course Outcome Understanding India CPIKSAUI105	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)													
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2
CO-1				2						1			1	
CO-2		3	2							2				
CO-3										3				
CO-4		3								3		2		



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Program :	BCA	Subject / Branch :	NA
Year :	2023/24	Semester :	I
Course title :	Practical - Fundamentals of Programming Language 'C'	Course code :	CPMNDSCAFC102
Course type :	Practical	Course credit :	02
Pre-requisite :	Basic Knowledge of Computer		
Rationale :	To introduce students the essentials of computer Programming and programming methodology using C language		

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
			Mid	CE		
4	0	0	15	10	25	50

Course Objective:

1. Students will understand to formulate a computing problem to executable computer program using C language.
2. Students will understand about compiler based programming languages
3. Students will learn concepts of variables, literals, data types, conversions of data types, input and output data and processing of data, inbuilt functions, arrays, header files, conditional and iterative statements.

Course Outcome:

1. Design and implement C programs to solve complex problems.
2. Describe the purpose and usage of basic c concept, control flow statements, looping and branching statements, array.
3. Analyze and predict the output of more complex C programs and identify and correct logical errors in C code.
4. Recognize and recall C language syntax and keywords, data types and their characteristics, variables, control flow statements, looping, array to create logical program structures and their usage.
5. Assess the quality of code in terms of readability, maintainability, and adherence to coding standards.





Practical List

Practical:

1. Write a C program to display "Gokul University" on the screen.
2. Write a C program to find the area of circle using the formula $\text{Area} = \pi * r * r$.
3. Write a C program to find the area of rectangle, cube and triangle. (Formula are: $\text{Rectangle} = l * b * h$, $\text{triangle} = (I * b) * 0.5$, $\text{cube} = L * L * L$)
4. Write a C program to evaluate simple interest $I = P * R * N / 100$.
5. Write a C program to enter a distance into K.M and convert it in to meter, feet, inches and Centimeter
6. Write a C program to interchange two numbers.
7. Write a C program to convert Fahrenheit into centigrade
8. Write a C program for summation, subtraction, multiplication, division of two number using Arithmetic operator
9. Write a C program to find out the largest value from given three numbers using conditional Operator
10. Write a C program to find the maximum number from given three numbers.
11. Write a C program to find that the enter number is Negative, or Positive or Zero.
12. Write a C program to Checked whether entered char is capital, small, digit or any special Character
13. Write a C program to find out the max. and min. number from given 10 numbers.
14. Write a C program to find the sum of digit of accepted number.
15. Write a C program to find the sum of first 100 odd numbers. And even numbers.
16. Write a C program to display first 25 Fibonacci nos.
17. Write a C program to check the accepted number is prime number or not.





18. Write a C program to display first 100 prime numbers.
19. Write a C program to find factorial of accepted numbers.
20. Write a C program to print accepted no and its reverse number.
21. Write a C program to convert decimal numbers into equivalent hexadecimal number.
22. Write a C program to display first 5 Armstrong number.
23. Write a C program to arrange the accepted numbers in ascending order and descending order.
24. Write a C program to find whether the accepted string is palindrome or not.
25. Write a C program to convert given line into upper case or lower case.
26. Write a C program to count no of word, character, line and space from given text.
27. Write a C program to display following output on the screen.
1
12
123
1234
28. Write a C program to display following output on the screen.
0
1 1
1 0 1
0 1 0 1
1 0 1 0 1
29. Write a C program to display following output on the screen.
1
22
3 3 3
4 4 4 4
30. Write a C program to find maximum & minimum value from the given array





Reference Books:

1. Programming in C, Balaguruswami – TMH
2. C: How to Program, Deitel & Deitel - PHI
3. C Programming Language, Kernigham & Ritchie - TMH

Suggested Readings:

1. Mastering Turbo C, Kelly & Bootle - BPB
2. C Language Programming – Byron Gottfried - TMH
3. Let us C, Yashwant Kanetkar - BPB Publication

Online Resources:

1. <https://www.w3schools.com/>
2. <https://www.tutorialspoint.com/>
3. <https://www.programiz.com/>
4. <https://www.cprogramming.com/>

Course Outcome Practical - Fundamentals of Programming Language 'C' CPMNDSCAFC102	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)													
	PO -1	PO -2	PO -3	PO -4	PO -5	PO -6	PO -7	PO -8	PO -9	PO -10	PO -11	PO -12	PSO -1	PSO -2
CO-1	2	1				3	3							2
CO-2	3					3	3							
CO-3		3	3			2	3							
CO-4	2					3	3						3	
CO-5	1												3	





Program :	BCA	Subject / Branch :	NA
Year :	2023/24	Semester :	I
Course title :	Practical – DBMS & Office	Course code :	CPMNDSCADB102A
Course type :	Practical	Course credit :	02
Pre-requisite :	Knowledge about Database Management System		
Rationale :	DBMS helps to share the data Quickly, effectively and securely and also access the data very fast with the accurate result. It gives to knowledge to the student how the data can be stored and accessed.		

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
			Mid	CE		
0	0	4	15	10	25	50

Course Objective :

1. Make access to the data easy for the user.
2. Protect Data From Physical harm and unauthorized systems.
3. Allow for growth in the data base system.

Course Outcome:

1. Evaluate the security and integrity of a database system
2. Analyze different types of database models (relational, hierarchical, network)
3. Apply normalization techniques to design and optimize database schemas
4. Explain the principles of database management systems in organizing and retrieving information.
5. Recognize fundamental concepts of databases, such as tables, records, fields, and keys and Memorize and list common terms used in database management.





Content

Practical:

1. Essential Skills, Starting Microsoft Excel, Managing Workbook Files, Working in Workbooks, Selecting Cells and Choosing Commands, entering Data, Using Formulas to Calculate Values, Editing a Worksheet, formatting a Worksheet, Printing, Consolidating Data, Creating Charts (graphs), Chart Types, Auto formats, Changing Data in a Chart, Formatting a Chart, Organizing and Analyzing Data in a List Using a List to Organize, data sorting and filtering Data in a List Summarizing Data in a List, Presenting, Reviewing, and Sharing Workbooks, Creating Graphic Objects on Worksheets and Charts, Auditing and Adding Comments to Documents, Protecting a Workbook, Exchanging Data with Other Applications, Sharing Data and Graphics with Other Applications, Importing and Exporting Documents, Switching from Other Applications.
2. Practical may be given to create
 - Pivot table
 - Macro facility
 - Student mark sheet using formula & chart
 - Salary sheet using formula & chart

Database Tools

3. Create a database with different data types using wizard.
4. Create relationship between two tables using keys (Primary key & Foreign Key)
5. Create report using wizard
6. Create student information system with insert, update, delete and view



Reference Books:

1. Database System Concepts: – Henry F. Korth & Abraham Silberschatz – McGraw Hill Education
2. Introduction to database Management – Navin Prakash -TMH
3. Introduction to Database System C. J. Date (7 Edition) Low Price Edition
4. MS Office Fundamental & Internet

Suggested Readings:

1. Introduction to database Management – Navin Prakash -TMH

Online Resources:

1. <https://www.geeksforgeeks.org/dbms>
2. <https://www.javatpoint.com/dbms-tutorial>
3. <https://www.tutorialspoint.com/dbms/index.htm>

Course Outcome	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)													
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2
Practical – DBMS & Office, CPMNDSCADB102A														
CO-1	1					3	3							
CO-2		3	2		2			2						
CO-3								3				1		
CO-4	3		2			1	3						2	
CO-5						2	3						3	



Program :	BCA	Subject / Branch :	NA
Year :	2023/24	Semester :	II
Course title :	Advance Programming Language 'C'	Course code :	CPMJDSAPC201
Course type :	Theory	Course credit :	04
Pre-requisite :	Basic Knowledge of Computer		
Rationale :	To introduce students the essentials of computer Programming and programming methodology using C language		

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE	50	100
			30	20		

Course Objective :

1. Students will understand to formulate a computing problem to executable computer program using C language.
2. Students will understand about compiler based programming languages
3. Students will learn concepts of variables, literals, data types, conversions of data types, input and output data and processing of data, inbuilt functions, arrays, header files, conditional and iterative statements.

Course Outcome:

1. Develop C programs that interact with external resources, such as file, large-scale C programs that involve multiple modules and libraries.
2. Apply advanced concepts of C programming to solve complex problems.
3. Analyze and debug complex C programs for logical errors and memory leaks
4. Recall C programming syntax and language features like structure, UDF, File, pointer
5. Design and implement C programs with a focus on optimization and efficiency



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Content

Unit	Description in detail	Credit	Weightage
Unit – 1	Introduction to Function	1	25 %
	Concepts of Function, Types of Function, Prototype, Need for User define function, Classifications of function using arguments and return types , Nesting of functions, Recursion, Functions with arrays, The scope and lifetime of variables in functions		
Unit – 2	Pointer	1	25 %
	Introduction, Advantage of using pointer, Accessing the address of a variable, Declaring and initializing pointers, Accessing a variable through pointer, Pointer expressions, Pointer increments and scale factor, Pointers and arrays, Pointers and character strings, Pointers and Functions, Pointers and structures.		
	Dynamic Memory Allocation and Linked List		
	Introduction, Dynamic Memory allocation, Memory allocation functions (malloc, calloc)		
Unit – 3	Structures & Unions	1	25 %
	Introduction, defining a structure, Structure initialization, copying and Comparison of structures members, Arrays of structures, Arrays within structures, Structures within Structures, Structures and functions, Unions, Size of structures.		
Unit – 4	File Management in C	1	25 %
	Introduction, creating and opening a file, closing a file, Input / Output operations on files, Error handling during I/O operations, Random access files and Command line arguments		





Reference Books:

1. Programming in C, Balaguruswami – TMH
2. C: How to Program, Deitel & Deitel - PHI
3. C Programming Language, Kernighan & Ritchie – TMH

Suggested Readings:

1. Mastering Turbo C, Kelly & Bootle - BPB
2. C Language Programming – Byron Gottfried - TMH
3. Let us C, Yashwant Kanetkar - BPB Publication
4. Programming in C, Stephan Kochan - CBS
5. Magnifying C, Arpita Gopal - PHI

Online Resources:

1. <https://www.w3schools.com/>
2. <https://www.tutorialspoint.com/>
3. <https://www.programiz.com/>
4. <https://www.cprogramming.com/>

Advance Programming Language 'C', CPMJDSAPC201	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)													
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2
CO-1	3		3		2		3							3
CO-2				3								3		3
CO-3	3	2			2	3	3							
CO-4						3						2	2	
CO-5			3									3		3



Program :	BCA	Subject / Branch :	NA
Year :	2023/24	Semester :	II
Course title :	Practical –Advance Programming Language ‘C’	Course code :	CPMJDSAPC202
Course type :	Practical	Course credit :	02
Pre-requisite :	Basic Knowledge of Computer		
Rationale :	To introduce students the essentials of computer Programming and programming methodology using C language		

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
0	0	4	Mid	CE	25	50
			10	15		

Course Objective :

1. Students will understand to formulate a computing problem to executable computer program using C language.
2. Students will understand about compiler based programming languages
3. Students will learn concepts of variables, literals, data types, conversions of data types, input and output data and processing of data, inbuilt functions, arrays, header files, conditional and iterative statements.

Course Outcome:

1. Develop C programs that interact with external resources, such as file, large-scale C programs that involve multiple modules and libraries.
2. Apply advanced concepts of C programming to solve complex problems.
3. Analyze and debug complex C programs for logical errors and memory leaks
4. Recall C programming syntax and language features like structure, UDF, File, pointer
5. Design and implement C programs with a focus on optimization and efficiency



— Faculty of Computer Science & Applications —
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Practical List

Practical:

1. Write a program to check the given number is Palindrome or not using User Defined Function (UDF).
2. Write a program to find factorial of given no using UDF.
3. Write a program to find factorial of given no using recursion.
4. Write a program to display first 25 terms of Fibonacci series using recursion.
5. Write a program using a recursive function to find the GCD (Greatest Common Divisor) of two Positive integer numbers.
6. Write a program to swap value of two integer number using UDF.
7. Write a function prime that returns 1 if its argument is a prime and return zero Otherwise.
8. Write a program that uses a UDF to sort an array of integer.
9. Write a program which explains the use of nesting of functions.
10. Define a structure type struct personal that would contain person name, date of joining and salary using this structure to read this information and Display on screen.
11. Design a structure student_records to contain Roll_no, Name, City and Percentage obtained. Develop a program to read data for 5 students and Display them.
12. Write a program using structure within structure.
13. Write a program using structure within Function.
14. Write a program declare following structure member: name, code, age, weight and height. Read all members of the structure for 10 persons and find list of persons with all related data whose weight > 50 and height > 40 and print the same with suitable format and title.
15. Write a program to use of pointer in arithmetic operation.
16. Write a program to accept 10 numbers and display its sum using pointer.
17. Write a program to accept 10 numbers and sort them with use of pointer.
18. Write a program to swap the two values using pointers and UDF.
19. Write a program with structure and pointer.
20. Write a program using pointer to determine the length of a character string.
21. Write a program using pointers to read an array of integers and print its elements in reverse order.
22. Write a program using UDF and pointers to add two matrices and to return the resultant matrix to the calling function.





23. Create one text file store some information into it and print the same information on Terminal.
24. A file named data contains series of integer no. Write a c program to read that no. and then write all odd no into file named odd no. and write all even no into file named even no. Display all the contents of these file on screen.
25. Write a c program to read data from keyboard write it to a file called input and Display data of input file on the screen.
26. Write a program that counts the number of characters and number of lines in a file.
27. Two files DATA1 and DATA2 contain sorted lists of integers. Write a program to produce a third file DATA which holds a single sorted, merged list of these two lists. Use command line arguments to specify the file names.
28. Write a C program to work as a dos type command using command line argument.
29. Write a C program to work as a dos copy command using command line argument.
30. Write a program which explains the use of macro.





Reference Books:

1. Programming in C, Balaguruswami – TMH
2. C: How to Program, Deitel & Deitel - PHI
3. C Programming Language, Kernigham & Ritchie – TMH

Suggested Readings:

1. Mastering Turbo C, Kelly & Bootle - BPB
2. C Language Programming – Byron Gottfried - TMH
3. Let us C, Yashwant Kanetkar - BPB Publication
4. Programming in C, Stephan Kochan - CBS
5. Magnifying C, Arpita Gopal - PHI

Online Resources:

1. <https://www.w3schools.com/>
2. <https://www.tutorialspoint.com/>
3. <https://www.programiz.com/>
4. <https://www.cprogramming.com/>

Practical –Advance Programming Language ‘C’, CPMJDSAPC202	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)													
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2
CO-1	3		3		2		3							3
CO-2				3								3		3
CO-3	3	2			2	3	3							
CO-4						3						2	2	
CO-5			3									3		3



Program :	BCA	Subject / Branch :	NA
Year :	2023/24	Semester :	II
Course title :	Practical – Web Design	Course code :	CPMJJDSCAWD202A
Course type :	Practical	Course credit :	02
Pre-requisite :	Basic knowledge of internet		
Rationale :	Students will develop and understanding of information design web page and usability as it applies to interactive media projects.		

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
			Mid	CE		
0	0	4	10	15	25	50

Course Objective :

1. Learn about E-Services like E-Banking, E-Learning etc.
2. Understanding the basic concept of HTML tags.
3. Learn the language of the web: HTML and CSS.
4. Develop skills in analyzing the usability of a web site.

Course Outcome:

1. Demonstrate proficiency in creating well-structured web pages using HTML for content and CSS for styling.
2. Remember fundamental principles of web design, including HTML tags, CSS properties, and basic scripting concepts.
3. Apply web design principles to create a basic website. Implement interactive features using JavaScript.
4. Evaluate the reliability of internet sources. Assess the effectiveness of security measures in a network





Practical List

1. Develop an HTML document for a web page of your favorite teacher. Design the page with an attractive background color, text color and background image.
2. Develop an HTML document for a web page of your favorite National Leader. Design the page with an attractive color combination, with suitable headings and horizontal rules.
3. Develop an HTML document for a web page of your favorite teacher. Design the page with an attractive background color, text color and background image.
4. Develop an HTML document for a web page of your favorite National Leader. Design the page with an attractive color combination, with suitable headings and horizontal rules.
5. Write an HTML document with an example of Ordered List and Unordered List.
6. Write an HTML document with an example of Ordered List and Unordered List Using Nested list.
7. Write an HTML document with an example of Table format to print your Bio-Data.
8. Write an HTML document to create complex Table like Telephone Bill, Mark sheet, Time-table.
9. Write the Frameset tags and Frame tags for the following frameset.

Physics.html	Welcome.html	Maths.html
Chemistry.html		Computer.html
Biology.html	Heading.html	Account.html
Zoology.html		

10. Develop a complete web page using Frames and Frameset which gives the Information about Hospital.
11. Write an HTML code for designing the subscription form of mail account in the e-mail Website with appropriate fields.
12. Write an example of External Stylesheet.
13. Write HTML program which contains Inline Style sheet for <p>, <h1> and <body> tags.
14. Write HTML program which contains Internal Style sheet for <p>, <h1> and <body>tags.
15. Describe yourself on a webpage and experiment with colors in bicolor, text, and link, try out different and sizes and also the other tags you studies so far, such as the rules tag as wells.
16. Write HTML code to develop a web page having background in blue and title "Well





- come to my home page" in red other color.
17. Create an HTML document of giving details of your name, age, telephone no, address and enrolment no, aligned in proper order.
 18. Calculate a web page that provides links to five different web page or to entirely different websites.
 19. Write a HTML code for making table to containing different option for different questions.
 20. Write HTML program which contains Internal Style sheet for <p>, <h1> and <body>tags.
 21. Describe yourself on a webpage and experiment with colors in bicolor, text, and link, try out different and sizes and also the other tags you studies so far, such as the rules tag as wells.
 22. Write HTML code to develop a web page having background in blue and title "Well come to my home page" in red other color.
 23. Create an HTML document of giving details of your name, age, telephone no, address and enrolment no, aligned in proper order.
 24. Calculate a web page that provides links to five different web page or to entirely different websites.
 25. Write a HTML code for making table to containing different option for different questions.





Reference Books:

1. Internet and Web Design Based on DOEACC III Revised syllabus 'O' Level - Mac Millan India Ltd
2. Teach Yourself HTML 4 in 4 Hours By Dick Oliver – Tech Media 4th Edition
3. Introduction To Internet And HTML Scripting-Fourth Edition-Bhaumik Shroff

Suggested Readings:

1. Introduction To Internet And HTML Scripting-Fourth Edition-Bhaumik Shroff

Online Resources:

1. https://www.tutorialspoint.com/internet_technologies/internet_overview.htm
2. <https://www.w3schools.com/html/>
3. <https://www.w3schools.com/w3css/defaultT.asp>
4. <https://www.geeksforgeeks.org/javascript/>

Course Outcomes Practical – Web Design, CPMJDS CAWD202A	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)													
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2
CO-1	1		2		3	2	3							
CO-2	2		3			3	3						3	
CO-3	1		3		2		2				2			3
CO-4	2									1				



Program :	BCA	Subject / Branch :	NA
Year :	2023/24	Semester :	II
Course title :	Internet & Web Design	Course code :	CPMJDS CAHM201A
Course type :	Theory	Course credit :	04
Pre-requisite :	Basic knowledge of internet		
Rationale :	Students will develop and understanding of information design web page and usability as it applies to interactive media projects.		

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
			Mid	CE		
4	0	0	30	20	50	100

Course Objective :

1. Learn about E-Services like E-Banking, E-Learning etc.
2. Understanding the basic concept of HTML tags.
3. Learn the language of the web: HTML and CSS.
4. Develop skills in analyzing the usability of a web site.

Course Outcome:

1. Demonstrate proficiency in creating well-structured web pages using HTML for content and CSS for styling.
2. Remember fundamental principles of web design, including HTML tags, CSS properties, and basic scripting concepts.
3. Apply web design principles to create a basic website. Implement interactive features using JavaScript.
4. Evaluate the reliability of internet sources. Assess the effectiveness of security measures in a network



Content

Unit	Description in detail	Credit	Weightage
I	Introduction to Internet Introduction, Evaluation of Internet, Internet Service, Computer Networks, Internet, URL (Uniform Resource Locator), Internet Service Provider, Intranet, Extranet, Virtual Private Network, World Wide Web, Search Engines, News groups, Electronic Mail, Web Portal, Chat, Video Conferencing, FTP, Remote Login, E-Commerce, E-Learning, E-Governance, E-Banking Difference between Internet, Intranet, Extranet, Internet Protocols (TCP,IP, UDP, FTP, HTTP), ISP (Internet Service Provider), E-mail, E-Learning, E-Banking, E-Governance, Social Networking, Instant Massaging, Audio and Video Conferencing, Data Encryption & Decryption, Concepts of Digital Signature, Concepts about Firewall Security	1	25 %
II	HTML HTML tag, Web Page and its Types, Publishing HTML Pages, Basic Tags. HTML document Structure, adding text in Newline , Creating heading: <H1> to <H6>,Creating a paragraph<P>--</P>, Creating a Horizontal ruler<HR>--</HR>, Scrolling text <marquee>--</marquee>, Linking to other page :< a> and <link> tags, Text fomenting tags, Font tag with attribute, Working with List tags and ,Creating Table: Related tags with attribute, Creating HTML Form with adding controls, Frame and frameset tag, Putting Graphics on a Web page, Custom Background and colors.	1	25 %
III	Introduction to Cascading Style Sheet Concepts of workbook, Defining Style with HTML tags, Features of Style sheet, Types of Style Sheets: External, Internal, and Inline, Style Properties, Style Class & ID Selector.	1	25 %





IV	Introduction to Java Script Writing First Java Script, HTML and Java script, Variables: Rules for variable names, declaring the variable, assign a value to a variable, Scope of variable, Using Operators, Control Statements, JavaScript loops. Types of JavaScript: External, Internal. JavaScript Functions: Defining a Function, Returning value from function, User Define Function.	1	25 %

Reference Books:

1. Internet and Web Design Based on DOEACC III Revised syllabus 'O' Level - Mac Millan India Ltd
2. Teach Yourself HTML 4 in 4 Hours By Dick Oliver – Tech Media 4th Edition
3. Introduction To Internet And HTML Scripting-Fourth Edition-Bhaumik Shroff

Suggested Readings:

1. Introduction To Internet And HTML Scripting-Fourth Edition-Bhaumik Shroff

Online Resources:

1. https://www.tutorialspoint.com/internet_technologies/internet_overview.htm
2. <https://www.w3schools.com/html/>
3. <https://www.w3schools.com/w3css/defaultT.asp>
4. <https://www.geeksforgeeks.org/javascript/>

Course Outcomes Internet & Web Design, CPMJDS CA HM201A	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)													
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2
CO-1	1		2		3	2	3							
CO-2	2		3			3	3						3	
CO-3	1		3		2		2				2			3
CO-4	2									1				





Program :	BCA	Subject / Branch :	NA
Year :	2023/24	Semester :	II
Course title :	Computer Networks	Course code :	CPMNDSCACN202
Course type :	Theory	Course credit :	04
Pre-requisite :	The students should have a basic Understanding of computer Network ,Models and Layer.		
Rationale :	It gives information to students which gives the means of interconnectivity for a computer's hardware components as well as the mode of data transfer and processing exhibited.		

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
			Mid	CE		
4	0	0	30	20	50	100

Course Objective :

1. To understand the data and database management of computer system.
2. To identify and compare different method for computer I/O.
3. Identify and understand the models.

Course Outcome:

1. Recall basic terms and concepts related to computer networks, such as protocols, OSI model layers, and network topologies.
2. Interpret the principles behind networking protocols and technologies.
3. Apply networking knowledge to solve problems or configure network devices.
4. Assess the security, performance, and efficiency of computer networks.
5. Design and implement computer networks based on specific requirements





Content

Unit	Basic concepts of Database Systems	Credit	Weightage
I	Introduction of Computer Networks, Uses of Computer Networks, Advantage & Disadvantage of Computer Networks Transmission mode: Simplex communication, Half-duplex and Full-duplex Introduction of Internet & Intranet, Baseband & Broadband Transmission	1	25 %
II	✓ Network Hardware: PAN (Personal Area Network) , LAN (Local Area Network), MAN (Metropolitan Area Network), WAN (Wide Area Network) ✓ The Internet (network of all networks) ✓ Network Topology: Linear bus, Ring, Star, tree, mesh & Hybrid. ✓ Reference Model: OSI Reference Model & TCP/IP Reference Model, Comparison of OSI reference model ✓ Connecting Devices: Repeater, HUB, Switch, Bridge, Router, and Gateway. ✓ The Telephone System – its structure, the local loop, transmission Impairments Introduction of Modem, Introduction of Communication satellites.	1	25 %
III	Guided Media - Twisted Pair, coaxial cable, Fiber optics. Unguided transmission media - Radio wave, micro wave and infrared, Multiplexing – FDM, TDM, WDM. Switching – Circuit switching, Message Switching, Packet switching.	1	25 %
IV	Design Issues - Framing, Error control, Flow control, Error detection and correction. Elementary data link protocols - Simplex, stop and wait, sliding window protocol - Go Back N, Selective repeat. The Medium Access Control Sublayer: The channel allocation problem, Multiple Access protocols – CSMA/CD, CSMA/CA	1	25 %





Reference Books:

1. Data Communication & Networking by Behrouz A. Forouzan, Tata McGraw Hill Edition
2. Computer network, Andrew S. Tanenbaum, fourth edition, Pearson
3. TCP/IP Protocol Suit by Behrouz A. Forouzan, Tata McGraw Hill Edition.

Suggested Books:

1. Computer network, Andrew S. Tanenbaum, fourth edition, Pearson

Online Resources:

1. https://www.tutorialspoint.com/computer_fundamentals/computer_networking.htm
2. https://www.tutorialspoint.com/data_communication_computer_network/data_communication_computer_network_tutorial.pdf

Course Outcomes COMPUTER NETWORK CPMNDSCA CN202	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)													
	PO -1	PO -2	PO -3	PO -4	PO -5	PO -6	PO -7	PO -8	PO -9	PO -10	PO -11	PO -12	PS O-1	PS O-2
CO-1	3					3	3						2	
CO-2						3								
CO-3			1		2		2			2			3	
CO-4	3					2				2				
CO-5			2		1									



Program :	BCA	Subject / Branch :	NA
Year :	2023/24	Semester :	II
Course title :	SYSTEM ANALYSIS	Course code :	CPMDCASA203
Course type :	Theory	Course credit :	04
Pre-requisite :	The purpose of the system requirements analysis is to structure the system independent of any implementation environment. This phase can determine system behavior and limitations		
Rationale :	This course mainly focuses on different of system analysis and design such as foundation , planning, analysis, design, implementation, and maintenance.		

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE	50	100
			30	20		

Course Objective :

1. Define system
2. Explain different phase of SDLC and their use
3. Design system component and environment
4. Analyze and specify the requirements of system

Course Outcome:

1. Design a complete system solution, including detailed system specifications, data models.
2. Evaluate the feasibility of proposed systems based on technical, operational, and economic factors.
3. Apply different system modeling techniques, such as data modeling and process modeling, to represent and analyze system requirements.
4. Explain the principles of system analysis and design methodologies, including their purpose and relevance in software development.
5. Recall basic concepts related to system analysis and design, such as the SDLC (Software Development Life Cycle), data flow diagrams, and entity-relationship diagrams.



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Content

Unit	Description in detail	Credit	Weightage
I	Introduction to System, System Analysis and Design, Need for System Analysis and Design, Types of System, Role of the System Analyst. System Development Strategies: SDLC, Structured Analysis Development Method, System Prototype Method. Fact-Finding Techniques: Interview, Questionnaire, Record Review, Observation. Data Flow Diagram: Advantages, Notations, Rules, Logical and Physical DFD. Data Dictionary: Importance and detail Structured Decisions: Decision Tree, Decision Tables, Structured English	1	25 %
II	Code Design: Principle of Code Design, Types of code Output: Principle of output, types of output, output media Form Designing: Objectives, Guideline for Form design, Types of form Designing User Interface: Objectives, Types of user interface Check Digits, Data Validation and Data Verification Case Tools: Benefits of Computer-Assisted Tools, Categories of Automated Tools, Case Components.	1	25 %
III	System Engineering Definition, Quality assurance: definition and need Design of software: Importance, Software design principles Software design and documentation tools: Structure Flowchart, HIPO, Warier /Orr Diagrams. System key concepts: Testing, System conversion, Documentation.	1	25 %
IV	Financial Accounting System, Payroll System, Library System, Inventory / Stock System	1	25 %





Reference Books:

1. Analysis & Design of Information Systems, James A. Sen
2. System Analysis & Design, 1st Edition, Parthasarathy & B.W. Khalkar

Suggested Books:

1. Introduction to S.A.D, LEE VOL. 1 & 2

Online Resources:

1. https://www.tutorialspoint.com/system_analysis_and_design/system_analysis_and_design_quic_k_guide.htm
2. <https://study.com/academy/course/computer-science-302-system-analysis-design.html>

Course Outcomes System Analysis, CPMDCASA203	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)													
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2
CO-1			3		3									
CO-2		3						2						
CO-3					3			2				2	2	
CO-4						2	3			2			3	
CO-5			3				1	2						



Program:	BCA	Subject / Branch:	NA
Year:	2023/24	Semester:	II
Course title:	Adv. Mathematics	Course code:	CPSECAMT206
Course type:	Theory	Course credit:	2
Pre-requisite :	Have basic knowledge of maths		
Rationale :	By contrast, math in particular counting and probability allows students-even at the middle-school level-to very quickly explore non-trivial "real world" problems that are challenging and interesting.		

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
			Mid	CE		
2	0	0	15	10	25	50

Course Objective: Identify the number of rows and columns within a matrix. Solve a system of linear equations by row-reducing its augmented form. Understand the nature of a logical argument and mathematical proof and be able to produce examples of these.

Course Outcome: After completion of the course students are expected to be able to:

1. Determine whether or not a given matrix is invertible and if is, find its inverse.
2. Perform the matrix operations of addition, multiplication and express a system of simultaneous linear equation in matrix form.
3. Determine if an infinite sequence is bounded, monotonic or oscillating
4. Recall basic set theory, Function, Matrices and Determinants, Sequence and Series



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Unit	Matrices and Determinants	Credit	Weightage
Unit -1	Set Theory	1	25 %
	Definition and notation of Set, Methods of representation of set (Property and List Method), set of numbers (Natural, Integers, Rational, Irrational, Real), Definition: Finite set, Infinite set, Empty set, Singleton set, Subset, Proper, subset of a set, Power set, Universal set, Complement of a set, Cardinality of set, Venn Diagrams, Set Operations: Union of two sets, Intersection of two sets, Disjoint sets, Equality of sets, Equivalent sets, Difference set, Symmetric Difference set, Properties of set operations (Cartesian product of sets Commutative, Associative, Distributive, De-Morgan's laws)		
Unit - 2	Function	1	25 %
	Introduction of Function, Definition of function, Domain, Co-domain, Image and Range of function, Types of function(with example): Linear, Quadratic, Polynomials, Rational, Irrational, Single value and Many value, Even and Odd, Explicit and Implicit, The Classification of functions: one-one, many-one, onto, into function, Evaluation of function, Composition of functions, Identity function, Mathematical functions (Definition with example): Floor and Ceiling function, Integer and Absolute value function, Remainder function, Exponential function, logarithm function and its properties, Recursive function.		



Reference Books:

1. Discrete Mathematics -Revised 3rd Edition Authors: **Seymour Lipschutz** and **Marc Lars Lipson**, Publication: McGraw-Hill Education (India) Pvt Limited
2. Elements of Discrete Mathematics -3rd Edition Authors: Chung Laung Liu and Durga Prasad Mohapatra Publication: McGraw-Hill Education (India) Pvt Limited
3. Discrete Mathematics -3rd Edition Author: J. K. Sharma

Course Outcomes Adv. Mathematics CPSECAMT206	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)													
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2
CO-1	3	2												
CO-2						3	2							
CO-3	2	1												
CO-4		2				3	3			1			2	



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Program :	BCA	Subject / Branch :	NA
Year :	2023/24	Semester :	II
Course title :	Communication Skills	Course code :	CPAECACS204
Course type :	Theory	Course credit :	02
Pre-requisite :	Basic Knowledge of English Language		
Rationale :	To make the students confident and make them aware about their personality development.		

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
			Mid	CE		
2	0	0	15	10	25	50

Course Objective :

Students will develop their confidence.
Students will understand the importance of personality development and self awareness.
Students understand the importance of language and learn different techniques of interview, presentation etc.

Course Outcome:

1. Demonstrate the ability to articulate ideas clearly and confidently in spoken form.
2. Develop active listening skills, enabling them to comprehend and respond appropriately to various communication cues.
3. Enhance their written communication skills, producing clear, concise, and organized written documents.
4. Evaluate the effectiveness of different communication methods.



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Content

Unit	Theory of Communication	Credit	Weightage
I	Business Communication → Application for Job → Loan → Leave → Demanding Original Documents from Office → Business Letters for Inquiry ◆ Reply ◆ Quotation ◆ Placing of Order ◆ Complaint ◆ Adjustment → Comprehension → Paragraph Writing	1	25 %
II	Listening and Speaking → Importance of Listening → Listening Process → Barriers of Listening → Speech preparation → Guidelines for Effective Speaking → Group discussion → Interview – types and preparation	1	25 %



Reference Books:

4. Communication Skills – Vithal Patel
5. English Grammar Composition and Effective Business Communication- Pink and Thomas – S. Chand

Suggested Readings:

1. Story books to increase vocabulary.
2. Listen Motivational videos.
3. Read interested area in English News Papers.

Online Resources:

1. <https://learnenglish.britishcouncil.org/grammar-reference>
2. <https://en.m.wikipedia.org/communication>

Course Outcomes Communicati on Skills CPAECACS204	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)													
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2
CO-1						2	3		3		3			
CO-2									3	1				
CO-3		2										2		
CO-4									3					



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Program:	BCA	Subject / Branch:	NA
Year:	2023/24	Semester:	II
Course title:	Environmental Studies	Course code:	CPVACAES205
Course type:	Theory	Course credit:	2
Prerequisite:	Environmental studies require an interdisciplinary approach, drawing from fields such as biology, chemistry, geography, sociology, and economics to comprehend the complex interactions between humans and the environment.		
Rationale:	The importance of environmental studies is describes: Clarification of modern environmental concept like how to conserve biodiversity.		

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
			Mid	CE		
2	0	0	10	15	25	50

Course Objective:

1. Inculcate environmental awareness as well as values in the students and translating them into pro- conservation actions.

Course Outcome:

1. Recall and identify key environmental concepts, theories, and terminology
2. Apply environmental principles to analyze real-world environmental problems.
3. Examine the factors contributing to a specific environmental issue.
4. Memorize key facts related to environmental issues such as pollution types.

Content

Unit	Introduction to Environment:	Credit	Weightage
Unit – 1	Definition and Components of Environment Human Environment Environmental Studies Man and Environment relationship → Man, Environment and Religion → Impact of technology on Environment Environmental Problems and causes Human Population and Environment: Population Growth, World and Indian scenario, Population and Environmental Degradation, Population explosion – Causes, Effects and Control. Urbanization: Urban population growth and Environmental problems.	1	25 %
Unit – 2	Environmental Pollution: Water Pollution: Introduction, Water Quality Standards, Sources of Water Pollution: Industrial, Agricultural, Municipal; Classification of water pollutants, Effects of water pollutants Air Pollution: Composition of air, Structure of atmosphere, Ambient Air Quality Standards, Classification of air pollutants, Sources of common air pollutants, Effects of common air pollutants. Noise Pollution: Introduction, Sound and Noise, Causes and Effects Land Pollution: Land uses, Land degradation: causes, effects and control Global Environmental Issues: Climate Change, Global Warming and GreenHouse Effect, Acid Rain	1	25 %

Reference Books:

1. A Text Book of Environmental Studies: A Comprehensive Study of Environment and Ecology
2. Environmental Sciences by Daniel B Botkin & Edward A Keller Publisher: John Wiley & Sons.

Suggested Readings:

1. Textbook of Environmental Studies for Undergraduate Courses by Erach Bharucha Second edition, 2013 Publisher: Universities Press (India) Private Ltd, Hyderabad.
2. Textbook of Environmental Studies by Deeksha Dave & SSKateva, Cengage Publishers.
3. Environmental Sciences by Daniel B Botkin & Edward A Keller Publisher: John Wiley & Sons.

Online Resources:

1. <http://earlham.worldcat.org/oclc/46685085>
2. <http://earlham.worldcat.org/oclc/31901190>

Course Outcomes Environmental Studies CPVACAES 205	Expected Mapping with Programme Outcomes (1- Weak Correlation; 2- Medium correlation; 3- Strong Correlation)													
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2
CO-1		1				3	1			1				
CO-2		2				1								
CO-3							3			3				
CO-4							2			1				



Gokul Global University, Siddhpur



Faculty of Commerce and Management

Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelors of Commerce

Subject/Branch: Commerce

Year: I-Year

Semester: I (First)

Course Title: Communicative English-I (CE)

Course Code: CPAECENG104

Course Type: Ability Enhancement

Course Credit: 02

Pre-Requisite: 10+2

Rationale : The course aims to familiarize the students with the basics of English grammar to enhance their communication and writing skills in English language.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
2	0	0	Mid	CE		
			10	15	25	50

Course Objectives:

1. Apply grammar concepts learned to construct grammatically accurate sentences.
2. Student can be able to give responses in both written and spoken forms.
3. Practice using grammar rules in real-life situations, such as describing routines, expressing preferences, and discussing experiences.

Course Outcomes:

1. Utilize a range of everyday vocabulary to describe people, places, activities, and objects.

2. Construct clear and grammatically correct sentences in written communication.
3. It will improve student's level of confidence.

Content:

Unit	Description	Credit	Weightage
I	• Parts of speech: Subject, noun, pronoun. • Vocabulary and sentences: routine activities, Greetings; Self introduction; Application writing.	0.50	20%
II	• Tenses: Present, Past and Future Tenses. (Formation of sentences, fill in the blanks with appropriate tense, correct form of the verb and correct helping verb).	0.50	40 %
III	• Articles: A, An and The. (Formation of sentences, fill in the blanks with appropriate article).	0.50	20 %
IV	• Prepositions: In, into, on, onto, at, by, with, from, to, for, about, of, off, over, under, beside, between among, after, before, during, though. (Formation of sentences, fill in the blanks with appropriate preposition).	0.50	20%

Reference Books:

Sr. No.	Author	Name of the Book	Publisher	Year of Publication
1.	Madhumita Chakraborty, Sumita Puri and Jyoti Jakhar Dahiya	English Communication	McMillan Education India	Latest
2.	Board of Editors	Interactive English	McMillan Education India	Latest
3.	Dr. Richa Mishra and Dr. Ratna Rao	A Text Book of English and Communication	McMillan Education India	Latest

Suggested Readings:

1. Communicative Competence in Business English- Robinson, Netrakanti, and Shintre- Orient Longman- Hyderabad.
2. Word Power Made Easy- Norman Lewis- Goyal Saab- New Delhi.
3. Oxford Dictionary of Phrasal Verbs.

Online Resources:

1. [www.youtube .com](http://www.youtube.com)
2. British Council Learn English: <https://learnenglish.britishcouncil.org/>
The British Council offers lessons, games, and activities to help students learn and practice English in an engaging way.
3. English Conversation Practice app from Google play store.

Practical / Activities:

1. Individual Oral Presentation in the classroom.
2. Home assignments for English Writing and Practice.



**Gokul Global University,
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**Faculty of Commerce and Management****Syllabus**

(As per the Guidelines of New Education Policy-2020)

Program: Bachelor of Commerce**Year:** I-Year**Course Title:** Yoga and Meditation (YM)**Course Type:** Value Added Course**Pre-Requisite:** 10+2**Subject /Branch:** Commerce**Semester:** I (First)**Course Code:** CPIKSYGM105**Course Credit:** 02**Rationale :**

The course aims to promote well-being, reduces stress, enhances focus, fosters emotional intelligence, improves physical fitness, and cultivates life skills, benefiting student's holistic development.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
1	0	1	Mid	CE	25	50
			10	15		

Course Objective:

4. Nurture physical, mental, emotional, growth for a well-rounded education.
5. Equip students with techniques to manage stress and enhance mental well-being through yoga and meditation practices.
6. Develop the ability to stay present and focused in everyday life.

Course Outcome:

4. Students can effectively manage stress and enhance mental well-being through yoga and meditation practices.
5. Improved focus and cognitive skills for academic and personal growth.
6. Development of a holistic approach to well-being.

Content:

Unit	Description in Detail	Credit	Weightage
I	Concept of Physical Education and Health Definition, Aims and Objectives of Physical Education Importance and Scope of Physical Education Modern concept of Health, Physical fitness and Wellness.	0.50	25 %
II	Components of Physical Fitness Physical fitness components - Speed, Strength, Endurance, Flexibility and Coordinative Abilities Types of Physical Fitness - Health related Physical Fitness - Performance Related Physical Fitness - Cosmetic fitness Fitness Balance	0.50	25 %
III	Principles of Exercise Programme	0.50	25 %

	Activities for developing Physical Fitness Components Exercise and Heart rate Zones Principles of First Aid Nutritional Balance		
IV	Yoga and Stress Management -Yoga Asanas and its effects/Benefit - Surya Namaskar, Steps of Surya Namaskar - Padmasana - Halasana - Bhujangasana - Shalabhasana - Dhanurasana - Shavasana - Vajrasana - Chakrasana - Trikonasana - Padahasthasana Postural Deformities – Corrective measures Stress Management and Relaxation Techniques	0.50	25 %

Reference Books:

Sr. No.	Author	Name of the Book	Publisher	Year of Publication
1.	Puri. K.Chandra.S.S.	Health and Physical Education	Surjeet Publicatios	2005.

Suggested Readings:

4. Puri .k. Chandra S.S (2005) “Health and Physical Education” New Delhi : Surjeet Publication.
5. 2. Thomas D Fahey and others. Fit and well : 6th Edition New York : McGraw Hill Publishers.

Practical / Activities:

3. Yoga and Meditation sessions in the class.
4. Regular Workshop / Seminar.



**Gokul Global University,
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Faculty of Commerce and Management

Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelor of Commerce

Subject/Branch: Commerce

Year: I- Year

Semester: I (First)

Course Title: Indian Constitution (IC)

Course Code: CPMDCINC103

Course Type: Multi-Disciplinary

Course Credit: 04

Pre-Requisite: 10+2

Rationale:

This subject will enable the students to demonstrate how vibrant is our constitution and the various institutions that are functional under it.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE		
			30	20	50	100

Course Objective:

1. To familiarize the students with the key elements of the Indian constitution.
2. To enable students to grasp the constitutional provisions and values.

3. To acquaint the students with the powers and functions of various constitutional offices and institutions.

Course Outcome:

1. Understand the key aspects of the Indian Constitution.
2. Comprehend the structure and philosophy of the Constitution
3. Understand the power and functions of various constitutional offices and institutions.

Content:

Unit	Description	Credit	Weightage
I	Indian Constitution: Meaning and Significance of Constitution. Constituent Assembly- Composition, Objectives Preamble and Salient features of the Indian Constitution. Fundamental Rights, Fundamental Duties. Directive Principles	1	25 %
II	Union and State Government: President of India- Election, Powers and functions Prime Minister and Cabinet – Structure and functions Governor- Powers and functions, Chief Minister and Council of Ministers – Functions	1	25 %
III	Legislature and Judiciary: Parliament – Lok Sabha and Rajya Sabha – Composition and powers; State Legislative Assembly and Legislative Council – Composition and powers; Judicial System in India – Structure and features; Supreme Court and High Court: Composition, Jurisdiction.	1	25 %
IV	Governance and Constitution: Federalism in India – Features; Local Government - Panchayats –Powers and functions; 73rd and 74th amendments; Election Commission – Composition, Powers and Functions; Electoral Reforms; Citizen oriented measures – RTI and PIL – Provisions and significance.	1	25 %

Reference Books:

Sr. No.	Authors	Name of the Books	Publisher	Edition & Year of Publication
R1	Durga Das Basu	Introduction to the Constitution of India	LexisNexis	(23rd edn.) 2018
R2	M.V. Pylee	India's Constitution	S.Chand Pub	(16th edn.) 2017.
R3	J.N. Pandey	The Constitutional Law of India	Central Law Agency	(55th edn.) 2018
R4	P.M Bakshi	Constitution of India	Universal Law Publishing House	1999
R5	K.Sharma	Introduction to the Constitution of India	Prentice Hall of India	2002

Lists of Journals/ Periodicals/ Magazines/ Newspapers:

1. The Indian Journal of Constitutional Law (IJCL),
2. The Times of India.

Suggested Readings:

1. Andre Beteille, 1965. Caste,class, and Power. Berkley: University of California Press.
2. Bhandarkar D.D. 1940. "Some Aspects of Ancient Indian culture". University of Madras
3. Chandra Bipan. 1979. "Nationalism and Colonialism in India". Orient, Lang
4. Granville Austin, 2000. The Indian Constitution: Cornerstone of a Nation. Melbourne:

Oxford University Press

5. Harish Ramaswamy and S. S. Patagundi (Ed.) 2007. Karnataka- Government and Politics.

Delhi: Concept Publishing Company

6. Hanson and Douglas, 1972. India`s Democracy. New York city: W W Norton & Co Inc.

Online Resources:

1. Constitution of India (Full Text), India.gov.in., National Portal of India, https://www.India.gov.in/sites/upload_files/npi/files/coi_part_full.pdf
2. Gandhi, M.K. "Hind Swaraj", http://www.mkgandhi.org/ebks/hind_swaraj.pdf
3. <https://www.india.gov.in/my-government/constitution-india>

Practical / Activities:

1. Department can debate on the role of Constitution in the development of India
2. Students can empirically evidence the effectiveness of concepts like –Freedom, Equality, Justice, Rights and Duties by conducting empirical studies.
3. Can invite experts to deliver special lectures on various provisions and amendments of the Constitution like the functioning of Election Commission, Article 246, 356 etc.



Gokul Global University, Siddhpur
Faculty of Commerce and Management



Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelor of Commerce

Year: I-Year

Subject/Branch: Commerce

Semester: I (First)

Course Title: Micro Economics

Course Code: CPMIECO102

Course Type: Minor Stream-1

Course Credit: 04

Pre-Requisite: 10+2

Rationale: Micro Economics equips undergraduates with essential tools to analyze individual and firm decision-making, market dynamics, and resource allocation.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
			Mid	CE		
4	0	0	30	20	50	100

Course Objective:

1. Introduce tools and methods of economic analysis that will serve as the basis for other courses in economics such as Macroeconomics, Economic Analysis, Managerial Economics, and Economic Resources.
2. Provide non-specialists economics student with a good introduction to the fundamental principles of microeconomics.
3. Familiarize students to use the concepts to which they are introduced to facilitate analysis of the functioning of the micro economy.

Course Outcome:

1. Conceptual understanding of business economics for better understanding of demand and supply.
2. Student would be able to think critically regarding market conditions.
3. Student will be able to study the market condition comparatively.

Content:

Unit	Description	Credit	Weightage
I	Introduction: Meaning, Robbin's definition of Economics (scarcity oriented and 4 supportive points), Nature of Economics. Micro and Macroeconomics (Definition, difference, merits and demerits)	1	25 %
II	Demand: Meaning of demand, Demand Determinants, the law of demand- change/shift in demand.	1	25 %

	Elasticity: Concept of Elasticity of demand, Elasticity of income, Cross elasticity, Types of Elasticity (Perfectly elastic, Elastic, Unitary elastic, Inelastic, Perfectly inelastic)		
III	Supply: - Meaning of supply, Determination of supply- the law of supply-change/shift in Supply. Cost Analysis: Fixed, Variable and Total Cost Curves, Average and Marginal Costs; Cost analysis: Short Run and Long Run; Economies and Diseconomies of Scale.	1	25 %
IV	Production analysis: Concept of Production Function, Characteristics of factors of production, concept of total, marginal and average Product, Marginal productivity Theory of distribution, Forecasting Techniques.	1	25 %

Reference Books:

1. Principles of economics by P,M.Bhutani-Taxman's
2. Micro-economics by D.M.Mithani –(Himalaya publishing company)
3. Dwivedi D. N., Micro Economic Theory (Vikas Publishing House).
4. Micro economics-by S. K.Agarwala Excel Books, New Delhi



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Faculty of Commerce and Management

Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelors of Commerce

Subject / Branch: Commerce

Year: I-Year

Semester: I (First)

Course Title: FUNDAMENTALS OF ACCOUNTING **Course Code:** CPMJDSCACC101A

Course Type: Major Core-2

Course Credit: 04

Pre-Requisite: 10+2

Rationale : The course aims to familiarize the students with concepts of financial accounting and its application in Commerce.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE	50	100
			30	20		

Course Objective:

7. To familiarize the students with the process of recording basic accounting terms.
8. To provide students with the basic understanding to success in variety of entry level accounting position in an organisation.
9. Student will be well versed in the basics of accounting.

Course Outcome:

7. Develops analytical and decision making ability for general accounting work.
8. Maintain complete and systematic records of accounting transactions.
9. Work on accounting software as an accounting professional.

Content:

Unit	Description	Credit	Weightage
I	Conceptual Understanding • Meaning and objectives of accounting, Business transaction.	1	25 %

	- Accounting principles and Conventions. - Basic Accounting terms: Capital, expenses, Assets, liabilities, debtors, creditors, goods, cost, gain, stock, purchase, sale, loss, profit, voucher, discount, drawing, depreciation, reserve and surplus, provisions. - Difference between capital and revenue expenditure. - Classification of accounts, Rules of Debit and Credit.		
II	Accounting Cycle - Introduction of Journal and ledger, recording the transaction into journal and ledger. - Preparing Trial balance and Subsidiary books.	1	25 %
III	Depreciation Fixed Instalment Method, Diminishing balance Method.	1	25 %
IV	Preparation of Final Accounts Trading account, profit & Loss account and Balance sheet of sole proprietor.	1	25 %

Reference Books:

Sr. No.	Author	Name of the Book	Publisher	Year of Publication

1.	T.S. Grewal	Introduction to Accountancy	S.Chand and Company	Latest.
2.	V. Rajasekaran & R. Lalitha	Financial Accounting	Pearson Publications	Latest
3.	Dr. Shradha Gangwar	Financial Accounting		Latest

Suggested Readings:

6. Journal of Accounting in Emerging Economies, Emerald Publication
7. ICAI Journal

Online Resources:

8. [www.youtube .com](http://www.youtube.com)
9. www.slideshare.com
10. www.pdfdrive.com

Practical / Activities:

5. Quiz using Google Forms or Quizzes
6. Breakout room activity



Gokul Global University, Siddhpur
Faculty of Commerce and Management



Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelors of Commerce

Subject/Branch: Commerce

Year: I-Year

Semester: I (First)

Course Title: SECRETARIAL PRACTICE

Course Code: CPMJDSCSRP101

Course Type: Major Core-1

Course Credit: 04

Pre-Requisite: 10+2 from a recognized education board.

Rationale: students will get the basic knowledge of the Company's legal and secretarial practice.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE		
			30	20	50	100

Course Objective:

1. To acquire the students with Company Compliance process.
2. Develop effective communication skills for engaging with stakeholders.
3. Acquire practical skills in managing corporate compliance.

Course Outcome:

1. To give a working practical knowledge in respect of law and formation of company
2. To understand recent amendments related with company formation.
3. Student will be able to understand the process and documents regarding company formation.

Content:

Unit	Description	Credit	Weightage
I	Introduction to Law:	1	25 %

	Meaning of law and its significance, Relevance of law to modern civilized society, Sources of law, Legal terminology and maxims and Understanding citations of cases.		
II	The Company: Meaning, Features and Types of company	1	25 %
III	Formation and Incorporation of Company: Procedure of company formation and Promoters of company.	1	25 %
IV	Memorandum of Association: Definition and Importance of Memorandum of Association, Contents of Memorandum of Association and Doctrine of Ultra Vires	1	25 %

Reference Books:

1. Secretarial Practice, M. C. Kuchhal.
2. Secretarial Practice, Dr. A. M. Patel, Damini Publications.
3. Letters and letters, Dr. Mohanbhai Panchal



Gokul Global University, Siddhpur

Faculty of Commerce and Management



Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelor of Commerce

Subject/Branch: Commerce

Year: I-Year

Semester: I (First)

Course Title: Computer Application-I

Course Code: CPSECCOM106

Course Type: Skill Enhancement

Course Credit: 02

Pre-Requisite: 10+2

Rationale: A basic understanding of Computer Applications for undergraduates to provide foundational knowledge and skills essential for digital literacy and technology-centric society.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
1	0	1	Mid	CE	25	50
			10	15		

Course Objective:

4. Develop fundamental computer literacy.
5. Gain proficiency in essential MS Office software applications.
6. Prepare for advanced coursework and real-world applications.

Course Outcome:

4. Students will demonstrate competency in using MS Office software tools.
5. Students will effectively communicate and collaborate using technology.
6. They will be prepared for further academic and professional pursuits in a technology-driven world.

Content:

Unit	Description	Credit	Weightage
I	Introduction Introduction to computer, generations, Classification of computer by- Size, Purpose & Technology: Meaning of Hardware & Software - Input devices, Output devices, Classification of Computer Software(System, Application & Programming), Memory Concepts (RAM, ROM, Hard Disk, CD).	0.50	25 %
II	Microsoft Word Create a New Document Using Template, Wizard & Working With Text, Open an Existing Document, Save the Document In Different formats ,Print the Document, find and Replace	0.50	25 %

	Text, Spelling and Grammar Checking, Use Autocorrect to Improve Your Typing, Character Formatting, Paragraph Formatting, Page Formatting, Multicolumn News Letter, Styles, Themes, and Templates, Create Tables, Mail Merge, Labels & envelopes, Insert Graphics Into A Document, Insert A Symbol, Add A Watermark, Add a Header or Footer.		
III	Microsoft Excel Create a New Workbook & Enter Data Into A Worksheet, Copy and Move Formulas, Insert And Delete Rows And Columns, Enter Excel Functions, Use Excel's Function Wizard, Sort & Filter Data, Add A Chart To A Worksheet, Insert Graphics Into A Worksheet, Conditional Formatting, Pivot Chart & Pivot Table.	0.50	25 %
IV	Microsoft PowerPoint Create New Presentation & Insert Text, Hyperlink & Pictures into Presentation, Print A Presentation, Open An Existing Presentation, change a Presentation's Background, Animate Text, Insert a Chart into a Presentation, Insert Graphics into a Presentations, Action Buttons in Presentation	0.50	25 %

Reference Books:

5. Information Technology in Business- Amir Manzoor
6. Fundamentals of computer - V. Raja Raman (PHI Publication)

Practical / Activities:

1. Lab Practice and home assignments for practice.
2. Regular Power Point Presentation in the class room.

BCOM 2



Gokul Global University, Siddhpur



Faculty of Commerce and Management

Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelors of Commerce

Subject/Branch: Commerce

Year: I-Year

Semester: II (Second)

Course Title: Communicative English-II (CE) **Course Code:** CPAECENG204

Course Type: Ability Enhancement

Course Credit: 02

Pre-Requisite: 10+2

Rationale : The course aims to familiarize the students with the basics of English grammar to enhance their communication and writing skills in English language.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
2	0	0	Mid	CE	25	50
			10	15		

Course Objective:

10. Apply grammar concepts learned to construct grammatically accurate sentences and responses in both written and spoken forms.
11. Student can be able to give responses in both written and spoken forms.
12. Practice using grammar rules in real-life situations such as describing routines, expressing preferences, and discussing experiences.

Course Outcome:

10. Utilize a range of everyday vocabulary to describe people, places, activities, and objects.

11. Construct clear and grammatically correct sentences in written as well as oral communication.
12. It will improve student's level of confidence.

Content:

Unit	Description	Credit	Weightage
I	MODAL AUXILIARIES: Can, could, may, might, will, would, shall, should, must, ought to, need to, am to, is to, are to, has to, have to, was to, were to, shall have to, will have to, likely to, expected to, supposed to, going to, about to. (Formation of sentences using modals, fill in the blanks with appropriate modal.)	0.50	25 %
II	ACTIVE & PASSIVE VOICE: (Formation of sentences, fill in the blanks with appropriate tense, correct form of the verb and helping verb).	0.50	25 %
III	CONDITIONALS: Probable, Improbable/Imaginary, Impossible. (Formation of sentences, fill in the blanks with correct form of the verb).	0.50	25 %
IV	CONJUNCTIONS: If, and, or, but, because/since, as, so that, while, whereas, as if, until, unless, while, Not only-But also, Either-or, Neither-nor, Both-and, Whether-or, Though, Although. (Formation of sentences, fill in the blanks with correct conjunction.) DEGREES OF ADJECTIVES: Positive, comparative, superlative	0.50	25%

	(Formation of sentences, fill in the blanks with correct adjectives.)		

Reference Books:

Sr. No.	Author	Name of the Book	Publisher	Year of Publication
1.	Madhumita Chakraborty, Sumita Puri and Jyoti Jakhar Dahiya	English Communication	McMillan Education India	Latest
2.	Board of Editors	Interactive English	McMillan Education India	Latest
3.	Dr. Richa Mishra and Dr. Ratna Rao	A Text Book of English and Communication	McMillan Education India	Latest

Suggested Readings:

11. Communicative Competence in Business English- Robinson, Netrakanti, and Shintre- Orient Longman- Hyderabad.
12. Word Power Made Easy- Norman Lewis- Goyal Saab- New Delhi.
13. Oxford Dictionary of Phrasal Verbs.

Online Resources:

4. www.youtube .com
5. British Council Learn English:
<https://learnenglish.britishcouncil.org/>
The British Council offers lessons, games, and activities to help students learn and practice English in an engaging way.
6. English Conversation Practice App from Google play store.

Practical / Activities:

7. Individual Oral Presentation and Group discussion in the classroom.
8. Assignments for English Writing and Practice.



**Gokul Global University,
Siddhpur**

**Faculty of Commerce and Management****Syllabus**

(As per the Guidelines of the New Education Policy-2020)

Program: Bachelor of Commerce**Subject/Branch:** Commerce**Year:** I-Year**Semester:** II**Course Title:** Corporate Communication**Course Code:** CPMDCCOC203**Course Type:** Multi-Disciplinary**Course Credit:** 04**Pre-Requisite:** 10+2

Rationale : The syllabus covers communication concepts, corporate communication, tools, and letter writing skills for the basic understanding and practical application in professional settings.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE	50	100
			30	20		

Course Objective:

1. Apply communication principles for effective business interactions.

2. Implement corporate communication strategies for diverse stakeholders.
3. Develop proficient letter writing skills for professional correspondence, emphasizing format, structure, and visual presentation.

Course Outcome:

1. Apply key communication principles effectively in business contexts.
2. Implement strategic corporate communication plans considering diverse stakeholders and ethical considerations.
3. Demonstrate proficiency in composing professional letters with precision and adherence to formatting guidelines.

Content:

Unit	Description	Credit	Weightage
I	BASICS OF COMMUNICATION Meaning and definition of communication, Business communication, barriers, 7'c of communication, types of Communication, corporate communications, Formal and Informal, verbal and Non-verbal, Communication channels, Organisational ethics, Organisational culture.	1	25 %
II	CORPORATE COMMUNICATION 1. Definitions, concept and genesis of CC 2. Difference and similarities between PR and CC 3. Organising corporate communication activities	1	25 %
III	CORPORATE COMMUNICATION TOOLS 1. Lobbying 2. Sponsorship 3. Financial communication 4. Corporate reputation 5. Corporate identity 6. Media mileage	1	25 %
IV	LETTER WRITING 1) Physical appearance A) Paper.(Quality, size, colour, continuation sheet) B) Typing On computer C) Margins D) Folding E) Envelope	1	25%

	F) Superscription 2) Structure of letter and essential part of business letter. 3) Format of letter.		

Reference Books:

Sr. No.	Author	Name of the Book	Publisher	Year of Publication
1.	Kaul, Asha	Business Communication	Prentice Hall of India, New Delhi	Latest
2.	Paul, Rajendra	Essentials of Business Communication	Sultan Chand & Sons	Latest
3.	Pitman Jackson	Corporate Communication for Managers,	Pitman Publishing,	Latest

Suggested Readings:

1. The Fundamentals of Corporate Communication, Butterworth, Heinmann, Richard R Dolphin
- 2 Corporate Reputation, London: Kogan page, Donald R G
- 3 Business communications, Thomson, Tom Means

Practical / Activities:

1. Assignments for practice
2. Case Studies



Gokul Global University, Siddhpur
Faculty of Commerce and Management



Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelor of Commerce

Subject / Branch: Commerce

Year: I-Year

Semester: II (Second)

Course Title: Accounting and Taxation

Course Code: CPMIACT202

Course Type: Minor Stream-2

Course Credit: 04

Pre-Requisite: 10+2

Rationale: Students will get idea about issuing of shares, stake holding and Basics of GST.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE		
			30	20	50	100

Course Objective:

1. To provide the outline the steps involved in issuing shares.
2. To interpret financial statements, analyze financial performance and make informed decisions.
3. To define Goods and Services Tax (GST) and understand its basic principles.

Course Outcome:

1. To demonstrate a thorough understanding of the concept of share capital, including its types and the significance of various categories.
2. To understand the fundamental principles of GST and its impact on businesses.
3. The subject will help to enhance managerial ability for decision making.

Content:

Unit	Description	Credit	Weightage
I	Shares and Share capital Meaning of share and share capital; Types of shares; Types of Share capital; Meaning of Over subscription; Under subscription; calls in advance and calls in arrear; Issues of shares at par, premium and discount. Examples on Issues, Pro-rata allotment, Forfeiture and Re – issues of shares (Entries in the Journal and Balance sheet)	1	25 %
II	Issue of Bonus shares Meaning; Reasons for issue of bonus shares; Methods of giving bonus; Legal provisions; SEBI guidelines for issue of bonus shares – 2000. Examples on issue of Bonus shares and making partly paid shares fully paid (Entries in the journal and balance sheet)	1	25 %
III	Final Accounts of Companies Basic terms: Proposed dividend; Interim dividend; Unclaimed dividend; Dividend equalization fund; Less tax dividend; Provisions and reserve; General reserve; Contingency reserve; Debenture redemption fund Preparation of Final accounts in horizontal form Adjustment; Valuation of Stock; Depreciation; prepaid expenses; pre-received income, interest on debenture; Provisions and reserve; Dividend; Contingent liability.	1	25 %
IV	Overview of GST 1. GST Concept, Salient features of GST , Benefits of GST, GTS council and its functions.	1	25 %

	2. Definitions Aggregate turnover, central tax, cess, composite supply, exempt supply, goods, integrated tax, input tax, input tax credit, mixed supply, non-taxable supply, non-taxable territory, output tax, reverse charge, services, state tax, taxable person, taxable supply, taxable territory, union territory. 3. Exemptions 4. Broad idea about rates of Goods and Services Tax		

Reference Books:

1. M.C. Shukla and T.S. Grewal of "Company Accounts and Analysis of Financial Statements"
2. Ambrish Gupta of "Financial Accounting for Management"
3. Fred Phillips, Robert Libby, and Patricia Libby of "Fundamentals of Financial Accounting"



**Gokul Global University,
Siddhpur**



Faculty of Commerce and Management

Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelors Of Commerce

Subject / Branch: Commerce

Year: I-Year

Semester: II

Course Title: Banking & Insurance

Course Code: CPMJDSCBNK201A

Course Type: Major Core-4

Course Credit: 04

Pre-Requisite: 10+2

Rationale: The course aims to familiarize the students with concepts of banking & insurance and its applications in business.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE	50	100
			30	20		

Course Objective:

1. To understand the basics of the Indian banking and Insurance.
2. To investigate the integration of technology in Indian banking System.
3. To gain insights into the marketing of banking and insurance services.

Course Outcome:

1. Students will be proficient in explaining the diverse components of the Indian banking system.
2. Students will understand the role of technology in shaping modern banking operations.
3. Students will develop skills in marketing banking and insurance services.

Content:

Unit	Description	Credit	Weightage
I	Introduction: Indian Banking System, Reserve Bank of India-Legal framework and main functions Commercial Banking – public, private, foreign, co-operative sector Different types of bank accounts Banker Customer relationship Customer	1	25 %

	Service in Banking KYC Norms and Anti-money Laundering Indian Banking System.		
II	Banking Technology: Technology in banks, Payment and settlement system in banks – New age clearing, national gateways, international gateways, Retail banking, Treasury management, priority sector lending.	1	25 %
III	Insurance: Meaning, Type of Plans, Benefits of Life insurance, Brief about Public and Private Sector Organization offering insurance Products and Non-Life Insurance: Meaning, Type of Plan Health insurance.	1	25 %
IV	Marketing of Banking & Insurance: Marketing of banking & insurance services, contemporary issue in banking and insurance, History and development of insurance.	1	25 %

Reference Books:

1. Banking Theory and Practice, K C Shekhar and Lekshmy Shekhar, Vikash Publishing Co.
2. Principles of Insurance Management, Neelam C Gulati, Excel Book.
3. Modern Banking D. Muraleedharan, Prentice Hall Publishing Company.

Suggested Readings:

1. Principles of Insurance Management, Neelam C Gulati, Excel Book.

Online Resources:

1. <https://www.pdfdrive.com>
2. www.slideshare.net

Practical / Activities:

1. Quiz using Google Forms or Quizzes
2. Breakout room activity - Sum solving



Gokul Global University, Siddhpur



Faculty of Commerce and Management

Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelor of Commerce
Commerce

Subject/Branch:

Year: I-Year

Semester: II (Second)

Course Title: Company and Compensation Laws

Course Code: CPMJDSCCCL201

Course Type: Major Core-3

Course Credit: 04

Pre-Requisite: 10+2

Rationale:

To provide students with basic understanding of Company laws and various provisions regarding compensation laws.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE		
			30	20	50	100

Course Objective:

- 1.To familiarize the students with the understanding and provisions of Companies Act 2013 and Compensation Laws.
- 2.Identify the legal structures of different types of companies (e.g., partnerships, corporations, LLCs) and understand their characteristics and requirements
3. To understand the legal requirements of a business organization.

Course Outcome:

- 1.Explain the foundational concepts of company law, including the formation, governance, and dissolution of business entities.
- 2.Explore contract law principles and how they relate to corporate transactions and agreements
- 3.Analyze the legal framework for commercial transactions and the rights and obligations of parties involved.

Content:

Unit	Description	Credit	Weightage
I	Introduction: - The Companies Act, 2013 Corporate personality- Definition of a Company - Characteristic of a Company and other types of Associations - Illegal Association - Classes of companies- Lifting or Piercing the Corporate Veil - One Person company Formation: - Formation- Formation of a Company- Promoters, Registration Incorporation, Memorandum of Association, Articles of Association, Prospectus and deposits - application for registration.	1	25%

II	Corporate Financing: - Shares-Application and allotment of shares, members and shareholders, share and shares capital, debentures, charges and debentures holders, dividends, borrowings, lending investments, contracts.	1	25%
III	Minimum Wages Act, 1948- Objectives and Applicability of the Act, Definitions: Employer; Wages; Employee; Fixing Minimum Rates of Wages; Minimum Rate of Wages; Procedure for Fixing and Revising Minimum Wages; Advisory Board; Central Advisory Board; Wages in Kind; Inspectors.	1	25%
IV	Employees' Compensation Act, 1923- Definitions- Dependent, Employer, Partial and Total Disablement, Workmen, Injury, Accident, Employer's Liability for Compensation, Amount of Compensation, Contracting, Commissioner.	1	25%

Reference Books:

1. Malik, K.L., Industrial Laws and Labour Laws, Eastern Book Company, Lucknow.
2. Sharma, J.P., An Easy Approach to Company and Compensation Laws, Ane Books Pvt Ltd, New Delhi.
3. Srivastava, S.C., Industrial Relations & Labour Laws, Vikas Publishing House (P) Ltd.
4. Companies Act and Corporate Laws, Bharat Law House Pvt Ltd, New Delhi.
4. Company Law Digest, Bharat Law House Pvt Ltd, New Delhi.

Online Resources:

1. <https://www.mca.gov.in/>
2. <https://cleartax.in/s/workmen-compensation-act-1923>



Gokul Global University, Siddhpur Faculty of Commerce and Management



Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelors of Commerce

Year: I-Year

Course Title: Computer IT- II

Course Type: Skill Enhancement

Pre-Requisite: 10+2

Subject / Branch: Commerce

Semester: II (Second)

Course Code: CPSECCOM206

Course Credit: 02

Rationale: The course aims to familiarize the students with the concepts of computer networking and internet communication.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
1	0	1	Mid	CE		
			10	15	25	50

Course Objective:

1. To introduce students to the principles of computer networking and email communication.
2. To introduce students to the basics of Computer networking, connecting home computers to each other and internet communication.
3. To provide practical, hands-on experience through labs and projects.

Course Outcome:

1. Develop a mindset of continuous learning and adaptability to stay current with evolving technologies and industry trends.
2. Students would be aware of connecting computers, internet and internet communication.
3. It will allow students to apply their knowledge in real-world scenarios.

Content:

Unit	Description	Credit	Weightage
I	COMPUTER NETWORKING: Introduction: Meaning, Importance; Networking terms and concepts: IP address, Node, Routers, Switches, Ports, Network cable; Computer Network Types: LAN, WLAN, CAN, MAN, PAN, SAN, VPN, WAN; Network Topology: Bus Topology, Ring Topology, Star Topology, Mesh Topology.	0.50	25 %
II	SMALL OFFICE AND HOME (SOHO) NETWORKING: Meaning and advantages of SOHO, Setup and configure a basic SOHO router, network file storage types and locations. SOHO-networking devices.	0.50	25 %
III	INTRODUCTION TO INTERNET: World Wide Web; internet connectivity related trouble-shooting, Web Browsing softwares, Search Engines; Understanding URL; Domain name; IP Address; Using e-governance website.	0.50	25 %
IV	E-MAIL COMMUNICATION: Basics of electronic mail; Getting an email account; Sending and receiving emails; Accessing sent emails;	0.50	25 %

	Using Emails; Document collaboration; Instant Messaging; Netiquettes.		

Text Books:

1. Fundamentals of Computer by E Balagurusamy, Tata McGraw Hill Education Pvt. Ltd, New Delhi
2. Fundamentals of Computer by V Rajaraman; Prentice Hall of India Pvt. Ltd., New Delhi
3. Computer Fundamentals by RS Salaria; Khanna Book Publishing Co. (P) Ltd., New Delhi.

Reference Books:

1. Fundamentals of Information Technology, Alexis Leon And Mathews Leon, Vikas Publishing House Pvt. Ltd, 2009
2. Fundamentals of Computers and Information Technology, M.N Doja, 2005

Online Resources:

1. <http://swayam.gov.in>
2. <http://spoken-tutorial.orgs>



Gokul Global University, Siddhpur



Faculty of Commerce and Management

Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelor of Commerce

Subject/Branch: Commerce

Year: I-Year

Semester: II (Second)

Course Title: Emotional Intelligence (EI)

Course Code: CPVACEMI205

Course Type: Value Added

Course Credit: 02

Pre-Requisite: 10+2

Rationale : The course aims to familiarize the students with the basics of emotional Intelligence to enhance their personal, social and professional relationship.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
2	0	0	Mid	CE	25	50
			10	15		

Course Objective:

1. Introduce the concept of emotional intelligence, its models and components.
2. Understand the significance of emotional intelligence in self-growth and building effective relationships.
3. Identify the measures of emotional intelligence.

Course Outcome:

1. Self-Awareness, Self-Management, Social Awareness & Relationship Management.
2. Discover personal competence and techniques of building emotional intelligence.
3. Gain insights into establishing positive relationships.

Content

Unit	Description	Credit	Weightage
I	Fundamentals of Emotional Intelligence • Nature and Significance • Models of emotional intelligence: Ability, Trait and Mixed • Building blocks of emotional intelligence: self-awareness, self-management, social awareness, and relationship management.	0.50	25 %
II	Personal Competence • Self Awareness: Observing and recognizing one's own feelings, Knowing one's strengths and areas of development. • Self-Management: Managing emotions, anxiety, fear, and anger.	0.50	25 %
III	Social Competence • Social Awareness: Others' Perspectives, Empathy and Compassion • Relationship Management: Effective communication, Collaboration, Teamwork, and Conflict management.	0.50	25 %
IV	Adolescent Education:	0.50	25%

	Meaning and age group of adolescence. Problems faced by adolescents and their solutions. Emotional Intelligence for adolescents.		

Suggested Readings:

1. Bar-On, R., & Parker, J.D.A.(Eds.) (2000). The handbook of emotional intelligence. San Francisco, California: Jossey Bros.
2. Goleman, D. (2005). Emotional Intelligence. New York: Bantam Book.
3. Sternberg, R. J. (Ed.). (2000). Handbook of intelligence. Cambridge University Press.
4. HBR's 10 Must Reads on Emotional Intelligence (2015)

Practical / Activities:

Students will practice self-management techniques to regulate emotions such as

- Mindfulness
- Conditioned relaxation response
- Boundary setting
- Any other

Students will practice various techniques of relationship management such as engaging with:

- Display of empathy
- Effective communication
- Teamwork
- Conflict resolution
- Any other

- If required, students can share their experiences in the form of a Project Report.
- Any other Practical/Practice as decided from time to time.

BCOM 3



**Gokul Global University,
Siddhpur**



Faculty of Commerce and Management

Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelor of Commerce

Subject/Branch: Commerce

Year: II- Year

Semester: III (Third)

Course Title: Corporate Accounting-I

Course Code: DPMJDSCCOA301

Course Type: Major Core-5

Course Credit: 04

Pre-Requisite: 10+2

Rationale : The course aims to familiarize the students with the Concepts & Application of Corporate Accounting.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE		
			30	20	50	100

Course Objective:

1. To ensure acquisition of theoretical knowledge, sufficient to provide a foundation for corporate accounting.
2. To provide guidance relating to theory methods and application of recent Developments in corporate accounting necessitated by changes in accounting Standards, SEBI Guidelines and companies Act.
3. To meet the manifold requirements at different levels of learning.

Course Outcome:

After completion of the course, learners will be able to:

1. Describe of Corporate Accounting Nature and Significance.
2. Calculate Profit Prior to Incorporation.
3. Analyse the matters related to issues of share capital, debentures, bonus shares, redemption of preference shares and debentures of a company.
4. Students can understand, calculate goodwill and find share price value of a company

Content:

Unit	Description in Detail	Credit	Weightage
I	Introduction Corporate Accounting Corporate Accounting: Nature and Significance – Corporate Reporting – Accounting Standards, Segment Reporting, Disclosure Norms - Generally Accepted Accounting Principles (GAAP) - Conceptual Framework for preparation and Presentation of Financial Statements in line with the Companies Act, 1956 - Provisions relating to Preparation of Company Final accounts – Form of Balance Sheet - Form of Statement of Profit and Loss - Computation of Managerial Remuneration.	1	25 %
II	Profit Prior To Incorporation Concept of profit prior to incorporation, procedure for ascertaining P/L prior to incorporation; Computation of time ratio, sales ratio, procedure and basis of allocation of expenses and incomes. Computation of profit prior to incorporation as per prescribed form.	1	25 %
III	Accounting for Share Capital:	1	25 %

	Kinds of Shares – Types of Preference Shares – Issue of Shares at Par, Discount and Premium - Forfeiture and Reissue of Shares (including problems).		
IV	Valuation of Goodwill and Shares: Methods of valuing Goodwill - Different methods of valuing shares (simple problems)	1	25%

Suggested Readings:

1. Dr. M. A. Arulanandam & K.S. Raman - Corporate Accounting, Himalaya Publishing House, 2013
2. R L Gupta & M. Radha Swamy - Corporate Accounts, Theory, Methods & Application, Sulthan Chand & sons, New Delhi, 2014
3. Jain and Narang, Corporate Accounting, Kalyani Publisher, Ludhiana, 2013.



Gokul Global University, Siddhpur
Faculty of Commerce and Management



Program: Bachelor of Commerce

Year: II-Year

Course Title: E-Business

Course Type: Multi-Disciplinary -3

Pre-Requisite: 10+2

Subject / Branch: Commerce

Semester: III (Third)

Course Code: DPMDCEBS302C

Course Credit: 04

Rationale: The course aims to familiarize the students with the concept of E-Business and its applications in business.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE		
			30	20	50	100

Course Objective:

1. To explore fundamental e-business concepts.
2. To learn and apply skills in e-business technologies such as website development, online payments and data analytics.
3. To analyze market trends and implement effective e-business strategies.

Course Outcome:

1. Students will explore and understand key e-business concepts, including online business models and digital marketing strategies.
2. Students will learn and apply skills in e-business tools like website development, online payments, CRM software, and data analytics.
3. Students will explore market trends and learn to implement e-business strategies to enhance business performance and competitiveness.

Content

Unit	Description in detail	Credit	Weightage
I	Introduction to E-Business Introduction, E-Commerce – definition, History of E-commerce, types of E-Commerce B to B etc. Comparison of traditional commerce and e-commerce. E-Commerce business models – major B to B, B to C model, Consumer-to-Consumer (C2C), Consumer-to-Business (C2B) model, Peer to-Peer (P2P) model – emerging trends. Advantages/ Disadvantages of ecommerce, web auctions, virtual communities, portals, e-business revenue models.	0.5	25 %
II	Security for E-Business Security threats – An area view – implementing E-commerce security – encryption – Decryption, Protecting client computers E-Commerce Communication channels and web servers Encryption,	0.5	25 %

	SSL protocol, Firewalls, Cryptography methods, VPNs, protecting, networks, policies and procedures		
III	E-Business Marketing Technologies E-Commerce and marketing, B to B and B to C marketing and branding strategies in EMarketing . Web transaction logs, cookies, shopping cart database, DBMS, SQL, data mining	0.5	25 %
IV	E-Payments: E-payment systems – An overview. B to C payments, B to B payments. Types of E- payment system – Credit card payment, debit cards, accumulating balance, online stored value payment systems, digital cash, digital (electronic) wallets, smart cards and digital cheques. Secure Electronic Transaction (SET) protocol.	0.5	25 %

Reference Books:

- 1) Marriappa M – E- Commerce, 13 Edition
- 2) R. G. Saha, E-Business, HPH ,10th Edition

Suggested Readings:

- 1) M. Suman – E – Commerce & Accounting,2017,10 Edition
- 2) Kalakota Ravi and A. B. Whinston: “Frontiers of Electronic Commerce”, Addison ,2017
- 3) Watson R T :“Electronic Commerce – the strategic perspective.” The Dryden press,2016
- 4) Agarwala K.N and Deeksha Ararwala: “Business on the Net – Whats and Hows of ECommerce”,2017
- 5) Agarwala and Agarwala: “Business on the Net – Bridge to the online store front,” 2017
- 6) Murthy CSV: “E. Commerce” Himalaya Publishing House Pvt.Ltd,2016

Online Resources:

- 1) <https://www.pdfdrive.com>
- 2) www.slideshare.net



Gokul Global University, Siddhpur
Faculty of Commerce and Management



Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelor of Commerce

Year: II-Year

Course Title: Business Economics

Course Type: Major Core-6

Subject/Branch: Commerce

Semester: III (Third)

Course Code: DPMJDSCECO301A

Course Credit: 04

Pre-Requisite: 10+2

Rationale: The subject equips students with essential economic principles and analytical skills to make informed business decisions and understand market dynamics.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
			Mid	CE		
4	0	0	30	20	50	100

Course Objective:

7. Understand and apply utility approaches to analyze consumer behavior.
8. Evaluate price and output decisions across different market structures.
9. Learn various demand forecasting methods and analyze key components of national income.

Course Outcome:

7. Conceptual understanding of business economics.
8. Student would be able to think critically regarding market conditions.
9. Student will be able to analyze the market condition comparatively.

Content:

Unit	Description	Credit	Weightage
I	Utility Analysis: Utility Analysis /Consumers' Equilibrium using cardinal and ordinal utility approaches. Consumer Surplus.	1	25 %
II	Market structure: Price and output decisions: Market-an introduction, price and output under perfect competition, price and output under imperfect competition, price and output under monopoly, price and output under oligopoly competition market.	1	25 %
III	Demand Forecasting: Meaning of Demand Forecasting. Objectives of Short Run and Long Run Forecasting. Criteria of good forecasting technique. Demand Forecasting Methods: Survey Methods, Experts' Opinion (Simple and Delphi), Consumer Interaction (Complete Enumeration, Sample Survey Method), Statistical Methods (Trend Analysis, Regression).	1	25 %
IV	National Income Analysis: Meaning of national income, Important Components of National Income: GDP, GDP at factor price and GDP at market price, Real & Nominal GDP, NDP, GNP and NNP. Significance and uses of national Income.	1	25 %

Reference Books:

7. Principles of economics by P,M.Bhutani-Taxman's
8. Business Economics by H.L. Ahuja, S. Chand Publishing
9. Dwivedi D. N., Micro Economic Theory (Vikas Publishing House).
10. Micro economics-by S. K.Agarwala Excel Books, New Delhi

Course Outcomes	Expected Mapping with Program Outcomes											
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1		1		2			1		3		1	
CO 2			3		1	3			1	3		2
CO 3	2			3		2	3	2			2	



Gokul Global University, Siddhpur



Faculty of Commerce and Management

Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelors Commerce

Subject/Branch: Commerce

Year: II-Year

Semester: III (Third)

Course Title: Functional English (FE)

Course Code: DPAECENG304C

Course Type: Ability Enhancement-3

Course Credit: 02

Pre-Requisite: 10+2

Rationale : The course aims to develop essential communication skills for undergraduates: effective communication, business writing, and practical speaking for academic and professional success.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
2	0	0	Mid	CE		
			10	15	25	50

Course Objective:

4. Develop students' proficiency in effective communication.
5. Enhance writing skills for various formats, including business documents, resumes, and creative writing.
6. Improve verbal communication through emotive speech techniques and practical speaking exercises for everyday and professional contexts.

Course Outcome:

13. Students will demonstrate effective communication skills.
14. Students will produce well-structured business documents, resumes, and creative writings with clarity and precision.
15. Students will exhibit confidence and competence in verbal communication.

Content:

Unit	Description in Detail	Credit	Weightage
I	Communication Definition and objectives of communication; Essentials of an effective communication, 7 Cs of an effective communication; Five functions of language.	0.50	25 %

II	Writing Introduction to business writing, Paragraph writing, Story writing, Business letters, CV/Resume, Email basics, Note making.	0.50	25 %
III	Emotive Emphasis in speech Interjections, Exclamations, Words describing emotions, Rhetorical Questions.	0.50	25 %
IV	Speaking English speaking basics, Basic of greetings-common phrases, Greetings in the classroom, Greetings at the workplace, Basics of small talk, Self-Introduction, Talking about Friends, Neighbours, Seasons, Transportations, Clothes, Food ; Commonly asked questions in an Interview, Identify the Do's and Don'ts for job interview, Mock Interviews.	0.50	25%

Reference Books:

Sr. No.	Author	Name of the Book	Publisher	Year of Publication
1.	Madhumita Chakraborty, Sumita Puri and Jyoti Jakhar Dahiya	English Communication	McMillan Education India	Latest
2.	Board of Editors	Interactive English	McMillan Education	Latest

			India	
3.	Dr. Richa Mishra and Dr. Ratna Rao	A Text Book of English and Communication	McMillan Education India	Latest

Suggested Readings:

1. Practical English Usage Book by Michael Swan Oxford Publication
2. IELTS Cambridge 1 to 9 – Cambridge University
3. Word Power Made Easy – Norman Lewis
4. Cambridge Grammar of English: A Comprehensive Guide by Ronald Carter (Author), Michael McCart

Online Resources:

7. [www.youtube .com](http://www.youtube.com)
8. British Council Learn English:
<https://learnenglish.britishcouncil.org/>
The British Council offers lessons, games, and activities to help students learn and practice English in an engaging way.
9. English Conversation Practice App from Google play store.

Practical / Activities:

9. Individual Oral Presentation in the classroom.
10. Home assignments for English Writing and Practice.

Course Outcomes	Expected Mapping With Program Outcome										
	1-Weak correlation, 2-Medium correlation,3-High correlation,										
	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5
CO1					2	1	1		3		
CO2	1		2		2		1				
CO3			1		2	1	1	3	3	1	2



Gokul Global University, Siddhpur



Faculty of Commerce and Management

Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelor of Commerce

Subject/Branch: Commerce

Year: II-Year

Semester: III (Third)

Course Title: Human Value and Indian Ethics

Course Code: DPIKSHVE303C

Course Type: IKS-2

Course Credit: 02

Pre-Requisite: 10 + 2

Rationale: It aims to foster ethical decision-making, integrity, and holistic development by integrating traditional Indian philosophies with modern ethical challenges.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
2	0	0	Mid	CE		
			10	15	25	50

Course Objective:

1. To understand and appreciate the foundational principles of human values and ethics within the Indian cultural context.

2. To critically analyze the ethical teachings and philosophies of key Indian thinkers and their relevance in contemporary society.
3. To develop the ability to apply these values and ethical principles in personal, professional, and social contexts to promote holistic well-being and integrity.

Course Outcome:

1. Students will gain a comprehensive understanding of fundamental human values, their significance in personal and professional life.
2. Learners will be equipped to apply Indian ethical principles and philosophies.
3. Students will develop enhanced ethical sensitivity and moral reasoning skills, enabling them to recognize and address ethical dilemmas effectively, promoting integrity and ethical conduct in their personal and professional endeavors.

Content:

Unit	Description in detail	Credit	Weightage
I	Introduction: • Introduction to Human Values, • Integrity and Honesty • Respect and Tolerance • Social Responsibility	1	25
II	Human Values, Ethics and Human Development: • Compassion and Empathy • Personal Development: Self-awareness, self-reflection, and strategies for personal growth and improvement. • Ethical Leadership • Ethical Dilemmas: Analyzing and resolving ethical dilemmas using ethical frameworks and decision-making models. • Human Rights	1	25 %

III	Ethical Landscape of India: • Indian Ethical Thought • Vedic and Upanishadic Ethics • Classical Indian Philosophies • Bhagavad Gita and Ethics • Contemporary Indian Ethical Thought • Ethics in Indian Literature • Comparative Ethical Analysis	1	25 %
IV	Dharma in Indian Culture: Ethical Values, Family Dynamics, and Contemporary Challenges" • Concept of Dharma and its significance in Indian Culture • Ahimsa (non-violence) and Satya (truthfulness). • Role of family, community, and societal values in life. • The concept of Karma and its implications on individual behavior. • Contemporary challenges to Indian values and ways to preserve and promote them.	1	25 %

Reference Books:

1. "Indian Ethics: Classical Traditions and Contemporary Challenges" by Purusottama Bilimoria and Aleksandra Wenta
2. "Human Values and Ethics: A Practical Guide for Leaders, Managers, and Technocrats" by M. S. Rao
3. "Values and Ethics in Indian Management" by R. Srinivasan
4. "Indian Ethos and Values in Management" by R. P. Banerjee

Suggested Readings:

1. "Indian Ethics: Classical Traditions and Contemporary Challenges" by Purushottama Bilimoria, Joseph Prabhu, and Renuka Sharma
2. "Foundations of Indian Ethics: Selections from Classical Texts" by Chhanda Chakraborti, Sundar Sarukkai, and Michael D. Schwartz
3. "Hindu Ethics: Purity, Abortion, and Euthanasia" by Harold Coward, Julius J. Lipner, and Katherine K. Young

4. "Indian Ethics: Individual and Social" by P. T. Raju
5. "Ethics in the Vedas" by H. D. Bhattacharya

Online Resources:

1. https://www.researchgate.net/publication/338209701_The_Role_of_Indian_Ethics_and_Values
2. <https://pwnonlyias.com/upsc-notes/ethics-and-human-interface/>
3. <https://edukemy.com/blog/human-values-upsc-ethics-notes/>
4. <https://ebooks.inflibnet.ac.in/hrmp01/chapter/sources-of-values/>

Practical / Activities:

1. Group Discussions and Debates: The relevance of ancient Indian ethical principles in modern society, Comparison of Western and Indian ethics, The role of values in personal and professional life.
2. Case Studies: Analyze real-life scenarios or historical events where Indian ethics played a crucial role, Discuss the ethical dilemmas faced and the values that guided the decisions.

Course Outcomes	Expected Mapping With Program Outcome										
	1-Weak correlation, 2-Medium correlation,3-High correlation,										
	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5
CO1		1			2	1	1		3		
CO2	1						1		2		
CO3			1	3	2	1	1	3	3	1	2



Gokul Global University,
Siddhpur
Faculty of Commerce and
Management



Program: Bachelors of Commerce **Subject / Branch:**
Commerce

Year: II-Year **Semester: III (Third)**
Course Title: IT Skill & Data Analysis **Course Code:**
DPSECITD305C

Course Type: Skill Enhancement -3 **Course Credit: 02**

Pre-Requisite: 10+2.

Rationale: The course aims to familiarize the students with concepts of IT Skill & Data Analysis and its applications in Business.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
<u>Lecture</u>	<u>Tutorial</u>	<u>Practical</u>	<u>Internal</u>		<u>External</u>	<u>Total</u>
			<u>M</u> <u>i</u> <u>d</u>	<u>C</u> <u>E</u>		
<u>1</u>	<u>0</u>	<u>1</u>	<u>1</u> <u>0</u>	<u>1</u> <u>5</u>	<u>25</u>	<u>50</u>

Course Objective:

- 1. Develop proficiency in essential IT skills and tools for effective data management and analysis.**
- 2. Acquire the ability to apply data analysis techniques to interpret and visualize data for informed decision-making.**
- 3. Cultivate critical thinking and problem-solving skills through practical data analysis projects and case studies.**

Course Outcome:

1. **Develop proficiency in essential IT skills, including software applications and hardware troubleshooting.**
2. **Acquire the ability to analyze and interpret data using statistical and computational techniques.**
3. **Demonstrate competency in visualizing and presenting data insights to inform decision-making processes.**

Content

<u>Unit</u>	<u>Description in detail</u>	<u>Credit</u>	<u>Weightage</u>
<u>I</u>	<u>Information Technology Act, 2000</u> <u>Definition of Information Technology Act, Digital signature and certificates,</u> <u>Duties of subscriber,</u> <u>Penalties and adjudication,</u> <u>Right to Information Act, 2005, Origin of Information Technology Act, Objectives of Information Technology Act,</u> <u>Features of Information Technology Act, Challenges of Information Technology Act</u>	<u>1</u>	<u>25 %</u>
<u>II</u>	<u>Data Analysis</u> <u>Data in Business environment, Sources of Data - Primary Data & Secondary data, Methods of collecting Primary Data and Secondary Data. Population and Sample, Data Formatting,</u> <u>Measures of Central Tendency</u> <u>Techniques of Data Collection:</u> <u>Census and Sampling techniques, methods of sampling.</u>	<u>1</u>	<u>25 %</u>

<u>III</u>	<u>Database Management System:</u> <u>Introduction to Database Management System;</u> <u>Advantages and Limitations of Database Management System;</u> <u>Traditional file system;</u> <u>Traditional file system vs. Database system;</u> <u>Evolution of Database Management Technology;</u> <u>Modern approach of Database;</u> <u>Managing Databases using MS Access;</u> <u>Creating Database;</u> <u>Understanding MS Access window;</u> <u>Application of MS Access in the field of Accounting.</u>	<u>1</u>	<u>25 %</u>
<u>IV</u>	<u>Application of Artificial Intelligence in Business:</u> <u>Meaning of Artificial Intelligence (AI);</u> <u>Benefits of AI;</u> <u>Applications of AI in business: Sales and Business Forecasting, Process Automation, Voice to Text Feature, Chatbots, Bigdata, Natural Language Processing, Machine Learning, AI in marketing and customer services.</u>	<u>1</u>	<u>25 %</u>

Reference Books:

1. **Information Technology Control and Audit, Third Edition, Sandra Senft, Frederick Gallegos, CR Press**
2. **Introduction to Computers, Peter Norton, McGrawHill, 2012.**
3. **Using Information Technology, Brian K williams, Stacey C.Sawyer, Tata McGrawHil**

Suggested Readings:

1. **Fundamentals of Computer – V . Rajaraman, Printice Hell of India.**
2. **Introduction to Computers–Peter Norton McGraw-Hill.**
3. **Computer Fundamentals–Pradeep. K. Sinha: BPB Publications.**

Online Resources:

1. **<https://online.stanford.edu/courses/soe-yycscs101-sp-computer-science-101>**
2. **[https://www.extension.harvard.edu/open-learning-initiative/intensive-introduction-computer-science.](https://www.extension.harvard.edu/open-learning-initiative/intensive-introduction-computer-science)**

Practical / Activities:

- 1) **Practical MS Word**
- 2) **Practical MS Excel**

<u>Course Outcomes</u>	<u>Expected Mapping With Program Outcome</u>						
	<u>1-Weak correlation, 2-Medium correlation,3-High correlation,</u>						
	<u>PO1</u>	<u>PO2</u>	<u>PO3</u>	<u>PO4</u>	<u>PO5</u>	<u>PO6</u>	
<u>CO1</u>				<u>3</u>	<u>2</u>	<u>1</u>	
<u>CO2</u>	<u>1</u>		<u>1</u>				
<u>CO3</u>		<u>2</u>	<u>1</u>		<u>2</u>	<u>1</u>	



Gokul Global University, Siddhpur



Faculty of Commerce and Management

Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelors of Commerce

Subject/Branch: Commerce

Year: II-Year

Semester: III (Third)

Course Title: Tourism and Travel Management

Course Code: DPMJDSCTTM301B

Course Type: Major Core-7

Course Credit: 04

Pre-Requisite: 10 + 2

Rationale: Understanding this field is essential for fostering cultural appreciation, promoting cross-cultural communication, and nurturing a responsible approach to sustainable tourism practices.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE	50	100
			30	20		

Course Objective:

1. Develop an understanding of the fundamental concepts and principles of the travel and tourism industry.
2. Understanding historical and contemporary significance.
3. Impact of tourism on local and global economies.

Course Outcome:

1. Demonstrate an in-depth comprehension of the various components of the tourism and travel industry.

2. Apply acquired knowledge and skills for addressing real-world challenges in the tourism and travel sector.
3. Fostering critical thinking and effective decision-making abilities.

Content:

Unit	Description in detail	Credit	Weightage
I	Tourism: • Concepts • Definitions and historical development. • Types of tourists: tourist, traveler, excursionists • Forms of tourism: inbound, outbound, domestic and international. • Nature and forms of Travel/Tourism • Nature of tourism industry • Characteristics of tourism industry • Components of tourism industry	1	26
II	• Motivation for travel: basic travel motivators, early travel motivators. • Tourism Demand • Motivation of Tourism Demand. • Measuring Tourism Demand. • Pattern and characteristic of tourism supply • Factors influencing tourism demand and supply. • Differences between Domestic & International Tourism	1	25 %
III	• Organizations in tourism • Need of tourism • Factors of tourism • National Tourist Organizations • Role and functions of Important Tourism Organizations: ○ WTO ○ IATA ○ PATA ○ TAAI	1	25 %

	○ WTTC • Seasonality & tourism		
IV	• Impacts of tourism at the destination. • Its impact: socio-cultural, environmental and economic. • Recent trends Domestic Tourism in India • International tourism trends in India • factors influencing for the development of International tourism in India.	1	25 %

Reference Books:

5. Introduction to Tourism : A.K.Bhatia
6. Tourism System : Mill R.C & Morrison
7. Tourism Development : R.Garther
8. Successful Tourism Management : Pran Nath Seth

Suggested Readings:

6. A.K.Bhatia, International Tourism Management
7. K.K.Kamra & M.Chand, Basics of Tourism
8. Tourism Management, Dr. Shubhada Marathe

Online Resources:

5. <https://tourismnotes.com/travel-tourism/>
6. <https://www.ihmnotes.in/assets/Docs/Sem-1/FO/1.TOURISM.pdf>
7. <https://ihmnotessite.com/index.php/tour-travel-management/tourist-and-tourism/>
8. https://www.tutorialspoint.com/tourism_management/tourism_management_tutorial.pdf

Practical / Activities:

3. Virtual Travel Blog: Ask students to create virtual travel blogs where they can write about a destination of their choice, including its attractions, cultural highlights, and unique features.
4. Destination Presentations: Assign students different destinations and ask them to prepare short presentations highlighting the key tourist attractions, local culture, and popular activities of their assigned location. Encourage them to use creative visuals and engaging storytelling to make their presentations informative and entertaining.

Course Outcomes	Expected Mapping with Program Outcomes											
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1		1		2			1		3		1	
CO 2			3		1	3			1	3		2
CO 3	2			3		2	3	2			2	

BCOM 4



Gokul Global University, Siddhpur
Faculty of Commerce and Management



Program: Bachelor of Commerce

Year: II-Year

Course Title: Auditing

Course Type: Major Core-10

Subject / Branch: Commerce

Semester: IV (Fourth)

Course Code: DPMJDSCAUD401B

Course Credit: 04

Pre-Requisite: 10+2

Rationale: The Course Aims to Familiarize the Students with Concepts of Auditing and Its Applications in Business.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
			Mid	CE		
4	0	0	30	20	50	100

Course Objective:

1. To introduce students to the basic concepts of auditing, including its definition, objectives, advantages, and limitations.
2. To provide an overview of different types of audits such as internal audit, statutory audit, branch audit, cost audit, management audit, and property audit, focusing on their key characteristics and differences.
3. To educate students on the qualifications, disqualifications, appointment, removal, remuneration, rights, and duties of a company auditor, along with understanding the significance of an auditor's lien.
4. To develop students' skills in vouching, emphasizing its meaning, significance, and application in cash transactions.

Course Outcome:

1. Students will be able to define auditing, explain its objectives, and identify the advantages and limitations associated with it.
2. Students will be able to distinguish between different types of audits and understand their unique features and purposes.
3. Students will gain a thorough understanding of the roles and responsibilities of company auditors, including their rights, duties, and legal standing.

Content

Unit	Description in detail	Credit	Weightage
I	Introduction: Definition, objective, Advantages and Limitations of audit. Types of Audits (only concept): • Internal audit, • stationary audit, • branch audit, • cost audit, • management audit, • property audit. Basic principles governing an audit.	1	25 %
II	Company Auditor: • Qualification and disqualification • Appointment and removal • Remuneration and status • Rights and duties • Lien of an auditor	1	25 %
III	Vouching: Meaning and significance, vouching of cash transactions.	1	25 %
IV	Verification and Valuation of Assets and Liabilities: • Meaning and auditor duties, • Verification and Valuation of followings: Goodwill, Building, machinery, investment, inventory, secured loan and contingent liabilities.	1	25 %

Reference Books:

1. Auditing: Principles And Practices, Ravinder Kumar and Virender Sharma, PHI Learning Pvt. Ltd.
2. Auditing University Edition by Arun Jha, Taxman Publication.
3. Auditing – Theory and Practice: N. K. Sharma: Shree Niwas Publication.

Suggested Readings:

1. Auditing – Theory and Practice: N. K. Sharma: Shree Niwas Publication
2. Auditing – B.S. Shah Publication.

Online Resources:

1. <https://www.mindtools.com/>
2. <https://www.verywellmind.com/>

Practical / Activities:

- 3) Quiz using Google Forms or Quizzes
- 4) Sum solving

Course Outcomes	Expected Mapping with Program Outcome										
	1-Weak correlation, 2-Medium correlation,3-High correlation,										
	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	-	1	-	-	3	1	3	-	3	-	-
CO2	1	-	-	-	-	-	-	-	2	-	-
CO3	-	-	1	1	2	1	1	2	3	1	2



Gokul Global University, Siddhpur



Faculty of Commerce and Management

Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelor of Commerce

Year: II-Year

Course Title: Corporate Accounting – II

Course Type: Major Core-8

Subject/Branch: Commerce

Semester: IV (Fourth)

Course Code: DPMJDSCCOA401

Course Credit: 04

Pre-Requisite: 10+2

Rationale : The course aims to familiarize the students with the Concepts & Application of Corporate Accounting.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE	50	100
			30	20		

Course Objective:

1. Analyze and record transactions related to share capital, including issues at par, discount, and premium.
2. Delve into the accounting treatment for debentures and bonus shares, focusing on issues at par, discount, and premium.
3. Learn to create and interpret statements of affairs, deficiency accounts, and the liquidator's final statement of receipts and payments.
4. Apply fundamental principles to prepare consolidated final accounts for holding companies.

Course Outcome:

After completion of the course, learners will be able to:

1. Understand and apply accounting principles for various types of share capital and preference shares, including their issue and reissue.
2. Demonstrate competence in accounting for debentures, including their issue, redemption, and treatment of bonus shares.
3. Accurately prepare financial statements and reports for companies undergoing liquidation.
4. Gain expertise in the consolidation of financial statements for holding companies, including balance sheets and profit and loss accounts.

Content:

Unit	Description in Detail	Credit	Weightage
I	Accounting Standard Following Accounting standards relevant to the Financial Statements of Limited Companies. AS-01 Disclosure of Accounting Policies AS-02 Valuation of Inventories AS-03 Cash Flow Statements AS-04 Contingencies & Events occurring after Balance Sheet Date AS-05 Prior Period Items & Changes in Accounting Policies AS-06 Depreciation Accounting AS-09 Revenue Recognition AS-10 Accounting for Fixed Assets.	1	25 %
II	Accounting for Share Capital: Kinds of Shares – Types of Preference Shares – Issue of Shares at Par, Discount and Premium - Forfeiture and Reissue of Shares (including problems).	1	25 %
III	Liquidation: Statement of Affairs and Deficiency Accounts - Liquidator's Final Statement of Receipts and Payments.	1	26 %
IV	Holding Companies: Introduction – Fundamental Principles in consolidation of Balance Sheet and Profit and Loss	1	25%

	Account – Preparation of Consolidated Final Accounts (simple problems only).		

Suggested Readings:

1. Jain, S.P & Narang, N.L., Advanced Accounting, Kalyani Publications.
2. Shukla & Grewal & Gupta, Advanced Accounting, S. Chand & Co., New Delhi
3. Reddy T.S. & Murthy, A, Corporate Accounting, Margham Publications, Chennai.



**Gokul Global University,
Siddhpur**



Faculty of Commerce and Management

Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelor of Commerce

Year: II

Course Title: Digital Marketing

Course Type: Minor Stream-3

Pre-Requisite: 10+2

Subject/Branch: Commerce

Semester: IV (Fourth)

Course Code: DPMIDMK402C

Course Credit: 04

Rationale : The course aims to familiarize the students with the Concepts & Application of Digital Marketing.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE		
			30	20	50	100

Course Objective:

1. To introduce key concepts and strategies in digital marketing, focusing on the effective use of online channels.
2. To develop practical skills in digital tools and platforms, enhancing students' ability to create and manage marketing campaigns.
3. To teach methods for analyzing and optimizing digital marketing performance, ensuring data-driven decision-making.

Course Outcome:

After completion of the course, learners will be able to:

1. Understand and apply core digital marketing strategies to effectively reach and engage target audiences.
2. Utilize various digital marketing tools and platforms to create, execute, and manage successful campaigns.
3. Analyze and optimize digital marketing efforts using data-driven insights for improved performance.

Content:

Unit	Description in Detail	Credit	Weightage
I	Introduction to Digital Marketing • Overview of Digital Marketing: Definition, importance, and evolution. • Traditional Marketing vs. Digital Marketing: Key differences and advantages.	1	25 %

	- Digital Marketing Channels: Search engines, social media, email, content, and mobile marketing. - Consumer Behavior in the Digital Age: Understanding the digital customer journey.		
II	Core Digital Marketing Strategies - Search Engine Optimization (SEO): Basics of on-page and off-page SEO, keyword research, and link building. - Search Engine Marketing (SEM): Introduction to Google Ads, PPC campaigns, and paid search strategies. - Content Marketing: Creating and distributing valuable content to attract and engage target audiences. - Social Media Marketing: Strategies for Facebook, Instagram, Twitter, LinkedIn, and other platforms.	1	25 %
III	Digital Marketing Tools and Techniques - Email Marketing: Crafting effective email campaigns, list building, and automation tools. - Website Analytics: Introduction to Google Analytics, key metrics, and data interpretation. - Affiliate Marketing: Overview, how it works, and its role in digital marketing. - Influencer Marketing: Leveraging influencers to build brand awareness and credibility.	1	27 %
IV	Measuring and Optimizing Digital Marketing Performance - Digital Marketing Metrics and KPIs: Identifying and tracking key performance indicators. - A/B Testing and Conversion Rate Optimization (CRO): Techniques for improving campaign effectiveness. - Data-Driven Decision Making: Using analytics to refine strategies and enhance results. - Ethics in Digital Marketing: Understanding data privacy, ethical advertising, and regulatory compliance.	1	25%

Reference Books:

1. Digital Marketing: A Practical Approach" by Sandeep Kumar and Pankaj Kumar; Tata McGraw Hill Education; 1st edition (2020).
2. Digital Marketing for Dummies" by Ravi S. Kumar; Wiley India; 1st edition (2019).
3. Fundamentals of Digital Marketing" by Pradeep Kumar; Vikas Publishing House; 1st edition (2021).



Gokul Global University, Siddhpur

Faculty of Commerce and Management



Program: Bachelor of Commerce

Year: II-Year

Course Title: Financial Literacy

Course Type: Ability Enhancement-4

Subject / Branch: Commerce

Semester: IV (Fourth)

Course Code: DPAECFIL404C

Course Credit: 02

Pre-Requisite: 10+2.

Rationale: The course aims to familiarize the students with concepts of financial literacy in present time.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme		
Lecture	Tutorial	Practical	Internal		External
2	0	0	Mid	CE	
					Total

			10	15	25	50

Course Objective:

1. Equip students with essential financial skills, including budgeting, saving, investing, and managing debt.
2. Teach students to create and implement effective financial plans that align with their personal goals and financial circumstances.
3. Increase students' awareness of banking, digital payment systems, and investment opportunities to enhance their financial well-being.

Course Outcome:

1. Students will be able to manage their personal finances effectively, including budgeting, saving, and debt management.
2. Students will understand various investment options and strategies, enabling them to make informed investment decisions.
3. Students will be adept at using financial tools and resources, such as banking services, digital payments, and financial planning software.
4. Students will be capable of developing and executing comprehensive financial plans, setting realistic financial goals, and adapting plans as needed.

Content

Unit	Description in detail	Credit	Weightage
I	Financial Planning and Financial Products • Introduction to Saving • Time value of money • Management of spending and financial discipline	1	25 %
II	Banking and Digital Payment • Banking products and services • Digitization of financial transactions: Debit Cards (ATM Cards) and Credit Cards., Net banking and UPI, digital wallets • Security and precautions against Ponzi schemes and online frauds	1	25 %
III	Investment Planning and Management • Investment opportunity and financial products • Insurance Planning: Life and non-life including medical insurance schemes	1	25 %
IV	Personal Tax • Introduction to basic Tax Structure in India for personal taxation • Aspects of Personal tax planning	1	25 %

	- Exemptions and deductions for individuals - e-filing		

Reference Books:

1. Avadhani, V A (2019), Investment Management , Mumbai: Himalaya Publishing House Pvt Ltd
2. Chandra, P (2012), Investment Game: How to Win . New Delhi: Tata McGraw Hill Education.
3. Kothari , R (2010), financial Services in India: Concept and application. New Delhi: Sage Publication India Pvt td
4. Milling B. E, (2003), The Basics of Finance: Financial Tools for Non Financial Managers, Indiana : Universe Company.
5. Zokaityte , A (2017), Financial Literacy Education. London: Palgrave Macmilla

Online Resources:

1. <https://www.khanacademy.org/college-careers-more/financial-literacy>
2. <https://www.edx.org/learn/financial-literacy>

Mapping

Course Outcomes	Expected Mapping With Program Outcome										
	1-Weak correlation, 2-Medium correlation,3-High correlation,										
	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5
CO1				3	2	1	1		3		

CO2	1		1								
CO3		2	1		2	1	1	3	3	1	2



Gokul Global University, Siddhpur
Faculty of Commerce and Management



Program: Bachelor of Commerce

Year: II-Year

Course Title: Life Skill Education

Course Type: VALUE ADDED -2

Subject / Branch: Commerce

Semester: IV (Fourth)

Course Code: DPVACLSE403C

Course Credit: 02

Pre-Requisite: 10+2

Rationale: The course aims to familiarize the students with concepts of need of life skills in personal and professional life.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
			Mid	CE		
2	0	0	10	15	25	50

Course Objective:

1. Provide strategies for managing emotions and stress.
2. Encourage sound decision-making through critical analysis.
3. Equip students with clear and effective communication abilities.

Course Outcome:

1. students recognize and manage their strengths and weaknesses.
2. Students communicate effectively in various contexts.
3. Students make informed decisions using critical analysis.
4. Students manage stress and emotions successfully.

Content

Unit	Description in detail	Credit	Weightage
I	OVERVIEW OF LIFE SKILLS Meaning and significance of life skills, Life skills identified by WHO: Self- awareness, Empathy, Critical thinking, Creative thinking, Decision making, problem solving, Effective communication, interpersonal relationship, coping with stress, coping with emotion.	1	25 %
II	LIFE SKILLS FOR PROFESSIONALS: Positive thinking, right attitude, attention to detail, having the big picture, learning skills, research skills, perseverance, setting goals and achieving them, helping others, leadership, motivation, self-motivation, and motivating others, personality development, IQ, EQ, and SQ	1	25 %
III	SELF-AWARENESS: Definition, need for self-awareness; Coping with Stress and Emotions, Human Values, tools and techniques of SA: questionnaires, journaling, reflective questions, meditation, mindfulness, psychometric tests, feedback. Stress Management: Stress, reasons and effects, identifying stress, stress diaries, the four as of stress management, techniques, Approaches: action-oriented, emotion oriented, acceptance- oriented, resilience, Gratitude Training, coping with emotions: Identifying and managing emotions, harmful ways of dealing with emotions, PATH method and relaxation techniques.	1	25 %
IV	21ST CENTURY SKILLS: Creativity, Critical Thinking, Collaboration, Problem Solving, Decision Making, Need for Creativity in the 21st	1	25 %

	century, Imagination, Intuition, Experience, Sources of Creativity, Lateral Thinking, Myths of creativity, Critical thinking Vs Creative thinking, Functions of Left Brain & Right brain, Convergent & Divergent Thinking, Critical reading & Multiple Intelligence. Steps in problem solving:		

Reference Books:

1. "Life Skills Education: Creating a World of Possibilities" by C. S. Prabhu
2. "The 7 Habits of Highly Effective People" by Stephen R. Covey
3. "The Life Skills Handbook: Equipping Young People for Life" by Tanya Devonald and Vanessa McKay

Suggested Readings:

1. "Mindset: The New Psychology of Success" by Carol S. Dweck
2. "Emotional Intelligence: Why It Can Matter More Than IQ" by Daniel Goleman

Online Resources:

<https://www.mindtools.com/>
<https://www.verywellmind.com/>

Practical / Activities:

- 5) Quiz using Google Forms or Quizzes
- 6) Sum solving

Course Outcomes	Expected Mapping With Program Outcome										
	1-Weak correlation, 2-Medium correlation,3-High correlation,										
	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	-	1	-	-	2	1	3	-	3	-	-
CO2	1	-	-	-	-	-	-	-	2	-	-
CO3	-	-	1	2	-	1	-	2	3	1	2



Gokul Global University, Siddhpur



Faculty of Commerce and Management

Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelor of Commerce

Year: II-Year

Course Title: Principle of Management

Course Type: Major Core-9

Subject/Branch: Commerce

Semester: IV (Fourth)

Course Code: DPMJDSCPOM401A

Course Credit: 04

Pre-Requisite: 10+2

Rationale : The course aims to familiarize the students with the Concepts & Application of Management.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE		
			30	20	50	100

Course Objective:

1. To provide a strong foundation in the core principles and theories of management.
2. Enabling students to effectively manage and adapt to various business environments.

3. To explore the application of management principles in real-world scenarios.

Course Outcome:

After completion of the course, learners will be able to:

1. Explain the fundamental principles and functions of management.
2. Identify and analyze the roles and responsibilities of managers at various levels.
3. Demonstrating the ability to make informed decisions and solve complex organizational problems.

Content:

Unit	Description in Detail	Credit	Weightage
I	Introduction to Management Meaning and process of management. Planning: Meaning; planning process; planning premises; types of plans – based on breadth and use.	1	25 %
II	Forecasting, Decision making Forecasting: Meaning; techniques of forecasting – Historical analogy method, survey method, business barometers, time series analysis, regression analysis, significance and limitations of forecasting Decision making: Meaning; decision making process; techniques of decision making-Decision Tree, PERT and CPM.	1	25 %
III	Organizing – Part 1 A. Introduction - Meaning of organizing; principles of organizing. B. Departmentation – Meaning; bases of departmentation – function wise, product wise, territory wise, process wise and customer wise. C. Delegation – Meaning; elements of delegation; principles of effective delegation.	1	28 %

	D. Centralization and decentralization – Meaning; factors affecting degree of centralization and decentralization.		
IV	Organizing – Part 2 Types of organizations A. Formal organizations: Line; Functional; Line and staff; Committee (only the meaning, advantages and limitations of all the four forms) B. Informal organizations: Meaning; benefits; problems.	1	25%

Reference Books:

1. L. M. Prasad; Principles of Management; Sultan Chand and Sons, 6 TH edition.
2. Karminder Ghuman and K. Aswathapa; Management – Concept, Practice and Cases; Tata McGraw Hill; 1 st edition (2010)
3. Gupta, Sharma and Bhalla; Principles of Business Management; Kalyani Publications; 1st edition.



**Gokul Global University,
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Faculty of Commerce and Management

Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelor of Commerce

Subject/Branch: Commerce

Year: II-Year

Semester: IV (Fourth)

Course Title: Soft Skill & Personality Development

Course Code: DPSECSPD405C

Course Type: Skill Enhancement-4

Course Credit: 02

Rationale: The Course in Soft Skills & Personality Development equips students with essential interpersonal abilities and self-improvement strategies, fostering personal and professional growth in today's interconnected and dynamic world.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
2	0	0	Mid	CE	25	50
			10	15		

Course Objective:

1. Development of Interpersonal Skills of Students.
2. Enhancement of Communication Skills of Students.
3. Personal and Professional Growth of Students.

Course Outcome:

1. Student will get Effective Communication Skills.
2. Develop good Interpersonal Skills and Team work in students.
3. Personal and Professional Development.

Unit	Description in Detail	Credit	Weightage
I	Introduction	0.5	25 %

	Understanding Soft Skills and their importance in personal and professional life. Communication Skills: Verbal and non-verbal communication, active listening, and effective speaking. Interpersonal Skills: Building rapport, empathy, conflict resolution, and networking. Time Management: Goal setting, prioritization, and Effective time utilization.		
II	Communication and Presentation: Effective Written Communication: Email etiquette, writing clear and concise messages. Public Speaking: Overcoming stage fright, structuring speeches, and engaging an audience. Presentation Skills: Designing visually appealing slides, delivering impactful presentations. Non-verbal Communication: Body language, facial expressions, and gestures.	0.5	25 %
III	Developing Self-Confidence: Overcoming self-doubt, positive self-talk, and body language. Stress Management: Techniques to handle stress and maintain emotional well-being. Adaptability and Resilience: Dealing with change and challenges effectively. Positive Attitude: Cultivating optimism and growth mindset.	0.5	29 %
IV	Interpersonal Skills and Professional Etiquette Team work and Collaboration: Effective participation in teams, conflict resolution, and cooperation. Networking Skills: Building and maintaining professional relationships. Business Etiquette: Proper behaviour in a professional setting, dressing appropriately. Interview Skills: Preparing for interviews, resume writing, and showcasing soft skills to employers.	0.5	25%

Reference Books:

- 1) Meena K and V. Ayothi (2013) A Book on Development of Soft Skills
- 2) AlexK.(2012) SoftSkills-KnowYourself&KnowtheWorld

Online Resources:

- 1) <https://www.pdfdrive.com>
- 2) www.slideshare.net

BBA 1



**Gokul Global University,
Siddhpur**



Faculty of Commerce and Management

Syllabus

(As per the guidelines of New Education Policy-2020)

Program: Bachelors of Business Administration **Subject/Branch:** Management

Year: I-Year

Semester: I

Course Title: Communicative English-I (CE) **Course Code:** CPAECENG104B

Course Type: Ability Enhancement

Course Credit: 02

Pre-Requisite : 10+2

Rationale : The course aims to familiarize the students with the basics of English grammar to enhance their communication and writing skills in English language.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
2	0	0	Mid	CE	25	50
			10	15		

Course Objective:

7. Apply grammar concepts learned to construct grammatically accurate sentences and responses in both written and spoken forms.
8. Student can be able to give responses in both written and spoken forms.
9. Practice using grammar rules in real-life situations, such as describing routines, expressing preferences, and discussing experiences.

Course Outcome:

16. Utilize a range of everyday vocabulary to describe people, places, activities, and objects.
17. Construct clear and grammatically correct sentences in written communication.
18. It will improve student's level of confidence.

Content:

Unit	Description in Detail	Credit	Weightage
I	• Parts of speech: Subject, noun, pronoun. • Vocabulary and sentences: routine activities, Greetings; Self introduction; Application writing.	0.50	20%
II	• Tenses: Present, Past and Future Tenses. (Formation of sentences, fill in the blanks with appropriate tense, correct form of the verb and correct helping verb).	0.50	40 %

III	• Articles: A, An and The. (Formation of sentences, fill in the blanks with appropriate article).	0.50	20 %
IV	• Prepositions: In, into, on, onto, at, by, with, from, to, for, about, of, off, over, under, beside, between among, after, before, during, though etc. (Formation of sentences, fill in the blanks with appropriate preposition).	0.50	20%

Reference Books:

Sr. No.	Author	Name of the Book	Publisher	Year of Publication
1.	Madhumita			

	Chakraborty, Sumita Puri and Jyoti Jakhar Dahiya	English Communication	McMillan Education India	Latest
2.	Board of Editors	Interactive English	McMillan Education India	Latest
3.	Dr. Richa Mishra and Dr. Ratna Rao	A Text Book of English and Communication	McMillan Education India	Latest

Suggested Readings:

14. Communicative Competence in Business English- Robinson, Netrakanti, and Shintre- Orient Longman- Hyderabad.
15. Word Power Made Easy- Norman Lewis- Goyal Saab- New Delhi.
16. Oxford Dictionary of Phrasal Verbs.

Online Resources:

10. [www.youtube .com](http://www.youtube.com)
11. British Council Learn English:
<https://learnenglish.britishcouncil.org/>
The British Council offers lessons, games, and activities to help students learn and practice English in an engaging way.
12. English Conversation Practice app from Google play store.

Practical / Activities:

11. Individual Oral Presentation in the classroom.
12. Home assignments for English Writing and Practice.



Gokul Global University, Siddhpur



Faculty of Commerce and Management

Syllabus

(As per the guidelines of New Education Policy-2020)

Program: Bachelors of Business Administration **Subject/Branch:** Management

Year: I-Year

Semester: I (First)

Course Title: Yoga and Meditation (YM)

Course Code: CPIKSYGM105B

Course Type: Value Added

Course Credit: 02

Pre-Requisite: 10+2

Rationale :

The course aims to promote well-being, reduces stress, enhances focus, fosters emotional intelligence, improves physical fitness, and cultivates life skills, benefiting student's holistic development.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
2	0	0	Mid	CE	25	50
			10	15		

Course Objective:

10. Nurture physical, mental, emotional, growth for a well-rounded education.
11. Equip students with techniques to manage stress and enhance mental well-being through yoga and meditation practices.
12. Develop the ability to stay present and focused in everyday life.

Course Outcome:

19. Students can effectively manage stress and enhance mental well-being through yoga and meditation practices.
20. Improved focus and cognitive skills for academic and personal growth.
21. Development of a holistic approach to well-being.

Content

Unit	Description in Detail	Credit	Weightage
I	Concept of Physical Education and Health Definition, Aims and Objectives of Physical Education Importance and Scope of Physical Education Modern concept of Health, Physical fitness and Wellness.	0.50	25 %
II	Components of Physical Fitness Physical fitness components - Speed, Strength, Endurance, Flexibility and Coordinative Abilities Types of Physical Fitness - Health related Physical Fitness - Performance Related Physical Fitness - Cosmetic fitness Fitness Balance	0.50	25 %
III	Principles of Exercise Programme Activities for developing Physical Fitness Components Exercise and Heart rate Zones Principles of First Aid Nutritional Balance	0.50	25 %
IV	Yoga and Stress Management -Yoga Asanas and its effects/Benefit - Surya Namaskar, Steps of Surya Namaskar - Padmasana - Halasana - Bhujangasana - Shalabhasana - Dhanurasana - Shavasana - Vajrasana - Chakrasana	0.50	25 %

	- Trikonasana - Padahasthasana Postural Deformities – Corrective measures Stress Management and Relaxation Techniques		

Reference Books:

Sr. No.	Author	Name of the Book	Publisher	Year of Publication
1.	Puri. K.Chandra.S.S.	Health and Physical Education	Surjeet Publications	2005.

Suggested Readings:

17. Puri .k. Chandra S.S (2005) “Health and Physical Education” New Delhi : Surjeet Publication.
18. 2. Thomas D Fahey and others. Fit and well : 6th Edition New York : McGraw Hill Publishers.

Practical / Activities:

13. Yoga and Meditation sessions in the class.
14. Regular Workshop / Seminar.



**Gokul Global University,
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Faculty of Commerce and Management

Syllabus

(As per the guidelines of New Education Policy-2020)

Program: Bachelor of Business Administration **Subject / Branch:** Management

Year: I- Year

Semester: I (First)

Course Title: Indian Constitution (IC)

Course Code: CPMDCINC103B

Course Type: Multi-Disciplinary

Course Credit: 04

Pre-Requisite: 10+2

Rationale:

This subject will enable the students to demonstrate how vibrant is our constitution and the various institutions that are functional under it.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE		
			30	20	50	100

Course Objective:

1. To familiarize the students with the key elements of the Indian constitution.
2. To enable students to grasp the constitutional provisions and values.
3. To acquaint the students with the powers and functions of various constitutional offices and institutions.
4. To make students understand the basic premises of Indian politics and role of constitution and citizen oriented measures in a democracy.

Course Outcome:

At the end of the course the students will-

1. Understand the key aspects of the Indian Constitution.

2. Comprehend the structure and philosophy of the Constitution
3. Understand the power and functions of various constitutional offices and institutions.

Content:

Unit	Description	Credit	Weightage
I	Indian Constitution: Meaning and Significance of Constitution. Constituent Assembly- Composition, Objectives Preamble and Salient features of the Indian Constitution. Fundamental Rights, Fundamental Duties. Directive Principles	1	25 %
II	Union and State Government: President of India- Election, Powers and functions Prime Minister and Cabinet – Structure and functions Governor- Powers and functions, Chief Minister and Council of Ministers – Functions	1	25 %
III	Legislature and Judiciary: Parliament – Lok Sabha and Rajya Sabha – Composition and powers; State Legislative Assembly and Legislative Council – Composition and powers; Judicial System in India – Structure and features; Supreme Court and High Court: Composition, Jurisdiction.	1	25 %
IV	Governance and Constitution: Federalism in India – Features; Local Government - Panchayats –Powers and functions; 73rd and 74th amendments; Election Commission – Composition, Powers and Functions; Electoral Reforms; Citizen oriented measures – RTI and PIL – Provisions and significance.	1	25 %

Reference Books:

Sr. No.	Authors	Name of the Books	Publisher	Edition & Year of Publication
R1	Durga Das Basu	Introduction to the Constitution of India	LexisNexis	(23rd edn.) 2018
R2	M.V. Pylee	India's Constitution	S.Chand Pub	(16th edn.) 2017.

R3	J.N. Pandey	The Constitutional Law of India	Central Law Agency	(55 th edn.) 2018
R4	P.M Bakshi	Constitution of India	Universal Law Publishing House	1999
R5	K.Sharma	Introduction to the Constitution of India	Prentice Hall of India	2002

Lists of Journals/ Periodicals/ Magazines/ Newspapers:

3. The Indian Journal of Constitutional Law (IJCL),
4. The Times of India.

Suggested Readings:

2. Andre Beteille, 1965. Caste, class, and Power. Berkley: University of California Press.
2. Bhandarkar D.D. 1940. "Some Aspects of Ancient Indian culture". University of Madras
3. Chandra Bipan. 1979. "Nationalism and Colonialism in India". Orient, Lang
4. Granville Austin, 2000. The Indian Constitution: Cornerstone of a Nation. Melbourne: Oxford University Press
5. Harish Ramaswamy and S. S. Patagundi (Ed.) 2007. Karnataka- Government and Politics. Delhi: Concept Publishing Company
6. Hanson and Douglas, 1972. India's Democracy. New York city: W W Norton & Co Inc.

Online Resources:

1. Constitution of India (Full Text), India.gov.in., National Portal of India,
https://www.India.gov.in/sites/upload_files/npi/files/coi_part_full.pdf
2. Gandhi, M.K. "Hind Swaraj", http://www.mkgandhi.org/ebks/hind_swaraj.pdf
3. <https://www.india.gov.in/my-government/constitution-india>

Practical / Activities:

1. Department can debate on the role of Constitution in the development of India
2. Students can empirically evidence the effectiveness of concepts like –Freedom, Equality, Justice, Rights and Duties by conducting empirical studies.
3. Can invite experts to deliver special lectures on various provisions and amendments of the Constitution like the functioning of Election Commission, Article 246, 356 etc.



Gokul Global University, Siddhpur
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Syllabus

(As per the guidelines of New Education Policy-2020)

Program: Bachelor of Business Administration **Subject/Branch:** Management

Year: I-Year

Semester: I (First)

Course Title: Micro Economics

Course Code: CPMIECO102B

Course Type: Minor Stream-1

Course Credit: 04

Pre-Requisite: 10+2

Rationale: Micro Economics equips undergraduates with essential tools to analyze individual and firm decision-making, market dynamics, and resource allocation.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE		
			30	20	50	100

Course Objective:

10. Introduce tools and methods of economic analysis that will serve as the basis for other courses in economics such as Macroeconomics, Economic Analysis, Managerial Economics, and Economic Resources.
11. Provide non-specialists economics student with a good introduction to the fundamental principles of microeconomics.
12. Familiarize students to use the concepts to which they are introduced to facilitate analysis of the functioning of the micro economy

Course Outcome:

10. Conceptual understanding of business economics for better understanding of demand and supply.
11. Student would be able to think critically regarding market conditions.
12. Student will be able to study the market condition comparatively.

Content:

Unit	Description	Credit	Weightage
I	Introduction: Meaning, Robbin's definition of Economics (scarcity oriented and 4 supportive points), Nature of Economics. Micro and Macroeconomics (Definition, difference, merits and demerits)	1	25 %
II	Demand: Meaning of demand, Demand Determinants, the law of demand- change/shift in demand. Elasticity: Concept of Elasticity of demand, Elasticity of income, Cross elasticity, Types of Elasticity (Perfectly elastic, Elastic, Unitary elastic, Inelastic, Perfectly inelastic)	1	25 %

III	Supply: - Meaning of supply, Determination of supply- the law of supply-change/shift in Supply. Cost Analysis: Fixed, Variable and Total Cost Curves, Average and Marginal Costs; Cost analysis: Short Run and Long Run; Economies and Diseconomies of Scale.	1	25 %
IV	Production analysis: Concept of Production Function, Characteristics of factors of production, concept of total, marginal and average Product, Marginal productivity Theory of distribution, Forecasting Techniques.	1	25 %

Reference Books:

11. Principles of economics by P.M.Bhutani-Taxman's
12. Micro-economics by D.M.Mithani –(Himalaya publishing company)
13. Dwivedi D. N., Micro Economic Theory (Vikas Publishing House).
14. Micro economics-by S. K.Agarwala Excel Books, New Delhi



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Faculty of Commerce and Management

Syllabus

(As per the guidelines of New Education Policy-2020)

Program: Bachelor of Business Administration **Subject / Branch:** Management

Year: I-Year

Semester: I (First)

Course Title: Human Resources Management **Course Code:** CPMJDSCHRM101A

Course Type: Major Core-2

Course Credit: 04

Pre-Requisite: 10+2 (From a recognized education board).

Rationale: The course aims to familiarize the students with concepts of Human resource and its application in business.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE	50	100
			30	20		

Course Objective:

1. To provide conceptual understanding of Human Resource Management
2. To familiarize the students with the contemporary issues in HRM.
3. To understand and appreciate the human behaviour in organizations.

Course Outcome:

1. Recognize the important qualities needed to be a successful HR Manager.
2. Students will understand how modern recruitment procedures benefit organizations.
3. Students will learn why Human Resource Planning (HRP) is essential in companies.

Content:

Unit	Description in detail	Credit	Weightage
I	Human Resource Management: Meaning, Features, Difference between personal Management and Human Resource Management, Objectives, Importance, Operative functions of HRM, Qualities of H.R Manager, Role of H.R Manager	1	25 %
II	Human Resource Planning in a Corporate Sector: Meaning, Objectives, Factors Affecting, Process, Benefits, Limitations of H.R. Planning.	1	25 %

	Recruitment: Modern selection procedure and its advantages Training: Meaning, Needs, Objectives, Procedure, Advantages and Limitations of training. Human Resource Development: Meaning, Characteristics, Needs, Functions, and Techniques or Methods of HRD		
III	Performance Appraisal: Meaning, Objectives. Brief idea of human resource accounting, psychological appraisal, management appraisal, utility and problems of performance appraisal. Promotion: Meaning, Basis, Merits and Demerits of Promotions Transfer: Meaning, causes and guiding principles of transfer. Demotions: Meaning, causes and guiding principles of demotions. Morale: Meaning, factors affecting, sign of low morale and its preventive measures, factors contributing high morale. Importance of industrial morale.	1	25 %
IV	Job Design: Meaning, approaches of job design, Brief ideas of job relations, job enlargement, job enlargement-factors affecting of job design, importance of job design. Quality of Work Life: Meaning, conditions, specific issues in QWL, H.R. activity and its effect on QWL Quality Circles: Meaning, objectives, organizational structure of Quality circle, advantages and problems of Quality circle.	1	25 %

Reference Books:

- 1) Personal Management – Juciouc Michel – RD. Irwin – Homewood.
- 2) Management Concept and Practice – Manamohad Prasad – Himalaya Publishing House.
- 3) Personnel and Human Resource Management – P. Subha Rao - Himalaya Publishing House.

Suggested Readings:

- 1) Koontz, Weirich & Aryasri, PRINCIPLES OF MANAGEMENT, Tata McGraw-Hill, NewDelhi,2004
- 2) Tripathi & Reddy, PRINCIPLES OF MANAGEMENT, Tata McGraw-Hill, New Delhi,2008
- 3) Laurie Mullins, MANAGEMENT AND ORGANISATIONAL BEHAVIOUR, Pearson, NewDelhi,2007

Online Resources:

- 3) <https://www.pdfdrive.com>
- 4) www.slideshare.net

Practical / Activities:

- 7) Quiz using Google Forms or Quizzes
- 8) Breakout room activity - Sum solving



**Gokul Global University, Sidhpur
Faculty of Commerce and Management**



Syllabus

(As per the guidelines of New Education Policy-2020)

Program: Bachelor of Business Administration	Subject /Branch: Management
Year: I-Year	Semester: I (First)
Course Title: Principle of Management	Course Code: CPMJDSCPOM101
Course Type: Major Core-1	Course Credit: 04
Pre-Requisite: 10+2	

Rationale: The course aims to familiarize the students with concept of Principle of management and its applications in Commerce.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE		
			30	20	50	100

Course Objective:

1. To understand the Foundations through the concepts and principles of management.
2. To develop Decision-Making and Forecasting Skills by understanding the application of Decision Trees, PERT and CPM.
3. To define the concept of organizing and effective organizational structures.

Course Outcome:

1. Student will be able to demonstrate Management Competence
2. Student will be able to apply Decision-Making and Forecasting Skills
3. Student will be able to Understand and Navigate Organizational Structures

Content:

Unit	Description in detail	Credit	Weightage
I	Introduction to Management and Planning Management: Meaning and process of management. Planning: Meaning; planning process; planning premises; types of plans – based on breadth and use.	1	25 %
II	Forecasting, Decision making Forecasting: Meaning; techniques of forecasting – Historical analogy method, survey method, business barometers, time series analysis, regression analysis, significance and limitations of forecasting Decision making: Meaning; decision making process; techniques of decision making – Decision Tree, PERT and CPM.	1	25 %
III	Organizing – I	1	25 %

	A. Introduction - Meaning of organizing; principles of organizing. B. Departmentation – Meaning; bases of departmentation – function wise, product wise, territory wise, process wise and customer wise. C. Delegation – Meaning; elements of delegation; principles of effective delegation. D. Centralization and decentralization – Meaning; factors affecting degree of centralization and decentralization.		
IV	Organizing – II Types of organizations A. Formal organizations: Line; Functional; Line and staff; Committee (only the meaning, advantages and limitations of all the four forms) B. Informal organizations: Meaning; benefits; problems.	1	25 %

Reference Books:

- 1) L. M. Prasad; Principles of Management; Sultan Chand and Sons, 6TH edition.
- 2) Karminder Ghuman and K. Aswathapa; Management – Concept, Practice and Cases; Tata McGraw Hill; 1st edition (2010)

Suggested Readings:

- 1) Gupta, Sharma and Bhalla; Principles of Business Management; Kalyani Publications; 1st edition.

Online Resources:

- 1) <https://www.pdfdrive.com>
- 2) www.slideshare.net

Practical / Activities:

- 9) Quiz using Google Forms or Quizzes
- 10) Breakout room activity - Sum solving



Gokul Global University, Siddhpur
Faculty of Commerce and Management



Syllabus

(As per the guidelines of New Education Policy-2020)

Program: Bachelor of Business Administration **Subject/Branch:** Management

Year: I-Year

Semester: I (First)

Course Title: Computer Application-I

Course Code: CPSECCOM106B

Course Type: Skill Enhancement

Course Credit: 02

Pre-Requisite: 10+2

Rationale: A basic understanding of Computer Applications for undergraduates to provide foundational knowledge and skills essential for digital literacy and technology-centric society.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
1	0	1	Mid	CE		
			10	15	25	50

Course Objective:

1. Develop fundamental computer literacy.
2. Gain proficiency in essential MS Office software applications.
3. Prepare for advanced coursework and real-world applications.

Course Outcome:

1. Students will demonstrate competency in using MS Office software tools.
2. Students will effectively communicate and collaborate using technology.
3. They will be prepared for further academic and professional pursuits in a technology-driven world.

Content:

Unit	Description	Credit	Weightage
I	Introduction Introduction to computer, generations, Classification of computer by- Size, Purpose & Technology: Meaning of Hardware & Software - Input devices, Output devices, Classification of Computer Software(System, Application & Programming), Memory Concepts (RAM, ROM, Hard Disk, CD).	0.50	25 %
II	Microsoft Word Create a New Document Using Template, Wizard & Working With Text, Open an Existing Document, Save the Document In Different formats ,Print the Document, find and Replace Text, Spelling and Grammar Checking, Use Autocorrect to Improve Your Typing, Character Formatting, Paragraph Formatting, Page Formatting, Multicolumn News Letter, Styles, Themes, and Templates, Create Tables, Mail Merge, Labels & envelopes, Insert Graphics Into A Document, Insert A Symbol, Add A Watermark, Add a Header or Footer.	0.50	25 %
III	Microsoft Excel Create a New Workbook & Enter Data Into A Worksheet, Copy and Move Formulas, Insert And Delete Rows And Columns, Enter Excel Functions, Use Excel's Function Wizard, Sort & Filter Data, Add A Chart To A Worksheet, Insert Graphics Into A Worksheet, Conditional Formatting, Pivot Chart & Pivot Table.	0.50	25 %
IV	Microsoft PowerPoint Create New Presentation & Insert Text, Hyperlink & Pictures into Presentation, Print A Presentation, Open An Existing Presentation, change a Presentation's Background, Animate Text, Insert a Chart into a Presentation, Insert Graphics into	0.50	25 %

	a Presentations, Action Buttons in Presentation		

Reference Books:

1. Information Technology in Business- Amir Manzoor
2. Fundamentals of computer - V. Raja Raman (PHI Publication)

Practical / Activities:

1. Lab Practice and home assignments for practice.
2. Regular Power Point Presentation in the class room.

BBA 2



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Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelors of Business Administration **Subject/Branch:** Management
Year: I-Year **Semester:** II (Second)
Course Title: Communicative English-II (CE) **Course Code:** CPAECENG204B
Course Type: Ability Enhancement **Course Credit:** 02

Pre-Requisite: 10+2

Rationale : The course aims to familiarize the students with the basics of English grammar to enhance their communication and writing skills in English language.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
2	0	0	Mid	CE	25	50
			10	15		

Course Objective:

13. Apply grammar concepts learned to construct grammatically accurate sentences and responses in both written and spoken forms.
14. Student can be able to give responses in both written and spoken forms.
15. Practice using grammar rules in real-life situations such as describing routines, expressing preferences, and discussing experiences.

Course Outcome:

22. Utilize a range of everyday vocabulary to describe people, places, activities, and objects.
23. Construct clear and grammatically correct sentences in written as well as oral communication.
24. It will improve student's level of confidence.

Content:

Unit	Description in Detail	Credit	Weightage
I	MODAL AUXILIARIES: Can, could, may, might, will, would, shall, should, must, ought to, need to, am to, is to, are to, has to, have to, was to, were to, shall have to, will have to, likely to, expected to, supposed to, going to, about to. (Formation of sentences using modals, fill in the blanks with appropriate modal.)	0.50	25 %

II	ACTIVE & PASSIVE VOICE: (Formation of sentences, fill in the blanks with appropriate tense, correct form of the verb and helping verb).	0.50	25 %
III	CONDITIONALS: Probable, Improbable/Imaginary, Impossible. (Formation of sentences, fill in the blanks with correct form of the verb).	0.50	25 %
IV	CONJUNCTIONS: If, and, or, but, because/since, as, so that, while, whereas, as if, until, unless, while, Not only-But also, Either-or, Neither-nor, Both-and, Whether-or, Though, Although. (Formation of sentences, fill in the blanks with correct conjunction.) DEGREES OF ADJECTIVES: Positive, comparative, superlative (Formation of sentences, fill in the blanks with correct conjunction.)	0.50	25%

Reference Books:

Sr. No.	Author	Name of the Book	Publisher	Year of Publication
1.	Madhumita			

	Chakraborty, Sumita Puri and Jyoti Jakhar Dahiya	English Communication	McMillan Education India	Latest
2.	Board of Editors	Interactive English	McMillan Education India	Latest
3.	Dr. Richa Mishra and Dr. Ratna Rao	A Text Book of English and Communication	McMillan Education India	Latest

Suggested Readings:

19. Communicative Competence in Business English- Robinson, Netrakanti, and Shintre- Orient Longman- Hyderabad.
20. Word Power Made Easy- Norman Lewis- Goyal Saab- New Delhi.
21. Oxford Dictionary of Phrasal Verbs.

Online Resources:

13. www.youtube .com
14. British Council Learn English:
<https://learnenglish.britishcouncil.org/>
The British Council offers lessons, games, and activities to help students learn and practice English in an engaging way.
15. English Conversation Practice App from Google play store.

Practical / Activities:

15. Individual Oral Presentation in the classroom.
16. Home assignments for English Writing and Practice.



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Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelor of Business Administration **Subject/Branch:** Management

Year: I-Year

Semester: II (Second)

Course Title: Corporate Communication

Course Code: CPMDDCOC203B

Course Type: Multi-Disciplinary

Course Credit: 04

Pre-Requisite : 10+2

Rationale : The syllabus covers communication concepts, corporate communication, tools, and letter writing skills for the basic understanding and practical application in professional settings.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE		
			30	20	50	100

Course Objective:

16. Apply communication principles for effective business interactions.
17. Implement corporate communication strategies for diverse stakeholders.
18. Develop proficient letter writing skills for professional correspondence, emphasizing format, structure, and visual presentation.

Course Outcome:

4. Apply key communication principles effectively in business contexts.
5. Implement strategic corporate communication plans considering diverse stakeholders and ethical considerations.
6. Demonstrate proficiency in composing professional letters with precision and adherence to formatting guidelines.

Content:

Unit	Description in Detail	Credit	Weightage

I	BASICS OF COMMUNICATION Meaning and definition of communication, Business communication, barriers, 7'c of communication, types of Communication, corporate communications, Formal and Informal, verbal and Non-verbal, Communication channels, Organisational ethics, Organisational culture.	1	25 %
II	CORPORATE COMMUNICATION 1. Definitions, concept and genesis of CC 2. Difference and similarities between PR and CC 3. CC and public affairs, CC and corporate affairs 4. Publics in CC - Financial publics, media, opinion makers, government, elected representatives 5. Present state of CC 6. Organising corporate communication activities 7. Areas of strategic thinking in corporate communication 8. Ethics and laws in corporate communication	1	25 %
III	CORPORATE COMMUNICATION TOOLS 1. Lobbying 2. Sponsorship 3. Financial communication 4. Corporate reputation 5. Corporate identity 6. Media mileage	1	25 %
IV	LETTER WRITING 1) Physical appearance A) Paper.(Quality, size, colour, continuation sheet) B) Typing On computer C) Margins D) Folding E) Envelope F) Superscription 2) Structure of letter and essential part of business letter. 3) Format of letter.	1	25%

Reference Books:

Sr. No.	Author	Name of the Book	Publisher	Year of Publication
1.	Kaul, Asha	Business Communication	Prentice Hall of India, New Delhi	Latest
2.	Paul, Rajendra	Essentials of Business Communication	Sultan Chand & Sons	Latest
3.	Pitman Jackson	Corporate Communication for Managers,	Pitman Publishing,	Latest

Suggested Readings:

1. The Fundamentals of Corporate Communication, Butterworth, Heinmann, Richard R Dolphin
2. Corporate Reputation, London: Kogan page, Donald R G
3. Business communications, Thomson, Tom Means

Practical / Activities:

3. Assignments for practice
4. Case Studies



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Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelor of Business Administration **Subject/Branch:** Management

Year: I-Year

Semester: II (Second)

Course Title: Accounting and Taxation

Course Code: CPMIACT202B

Course Type: Minor Stream-2

Course Credit: 04

Pre-Requisite: 10+2

Rationale: Students will get idea about issuing of shares, stake holding and Basics of GST.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE		
			30	20	50	100

Course Objective:

4. To provide the outline the steps involved in issuing shares.
5. To interpret financial statements, analyze financial performance, and make informed decisions.
6. To define Goods and Services Tax (GST) and understand its basic principles.

Course Outcome:

4. To demonstrate a thorough understanding of the concept of share capital, including its types and the significance of various categories.
5. To understand the fundamental principles of GST and its impact on businesses.

6. The subject will help to enhance managerial ability for decision making.

Content:

Unit	Description in detail	Credit	Weightage
I	Shares and Share capital Meaning of share and share capital; Types of shares; Types of Share capital; Meaning of Over subscription; Under subscription; calls in advance and calls in arrear; Issues of shares at par, premium and discount. Examples on Issues, Pro-rata allotment, Forfeiture and Re – issues of shares (Entries in the Journal and Balance sheet)	1	25 %
II	Issue of Bonus shares Meaning; Reasons for issue of bonus shares; Methods of giving bonus; Legal provisions; SEBI guidelines for issue of bonus shares – 2000. Examples on issue of Bonus shares and making partly paid shares fully paid (Entries in the journal and balance sheet)	1	25 %
III	Final Accounts of Companies Basic terms: Proposed dividend; Interim dividend; Unclaimed dividend; Dividend equalization fund; Less tax dividend; Provisions and reserve; General reserve; Contingency reserve; Debenture redemption fund Preparation of Final accounts in horizontal form Adjustment; Valuation of Stock; Depreciation; prepaid expenses; pre-received income, interest on debenture; Provisions and reserve; Dividend; Contingent liability.	1	25 %
IV	Overview of GST 5. GST Concept, Salient features of GST , Benefits of GST, GTS council and its functions. 6. Definitions Aggregate turnover, central tax, cess, composite supply, exempt supply, goods, integrated tax, input tax, input tax credit, mixed supply, non-taxable supply, non-taxable territory, output tax, reverse	1	25 %

	charge, services, state tax, taxable person, taxable supply, taxable territory, union territory.		
	7. Exemptions		
	8. Broad idea about rates of Goods and Services Tax		

Reference Books:

4. M.C. Shukla and T.S. Grewal of "Company Accounts and Analysis of Financial Statements"
5. Ambrish Gupta of "Financial Accounting for Management"
6. Fred Phillips, Robert Libby, and Patricia Libby of "Fundamentals of Financial Accounting"



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Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelor of Business Administration **Subject/Branch:** Management

Year: I-Year

Semester: II (Second)

Course Title: Financial Market

Course Code: CPMJDSCFIM201

Course Type: Major Core-3

Course Credit: 04

Pre-Requisite: 10+2

Rationale:

This course is designed to equip students with the basic understanding of Indian financial market.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE		
			30	20	50	100

Course Objective:

In this course, the students will be introduced to the fundamental concepts of Financial Market. This course provides an insight to the students regarding various issues associated with business.

Course Outcome:

The syllabus aims to test the student's ability to:

1. Develop Financial Skills
2. Build Foundation for Money Management and Equity Market
3. Build Speed and Accuracy for Financial Market Operations

Content:

Unit	Description in detail	Credit	Weightage
I	Money Market - Definition, Functions, Significance and Structure of Money Market. Acceptance house, Discount house, Call money market, new trends in Indian money market. Role of RBI and Commercial Bank in Indian Money Market.	1	25 %
II	Capital Market - Meaning and Components of Capital market, Securities market, Cash Markets Equity and Debts, Depositories. Function of Stock market, Stock brokers, Margin trading, Forward trading, Primary and Secondary market, NSE, BSE, NIFTY, SENSEX, OTCEL.	1	25 %

III	Stock Exchange Board of India - SEBI as capital market regulators. Objectives, functions, powers and Organizational structure of SEBI. SEBI Guideline on primary and secondary market. Listing procedure and legal requirement. Public issue pricing and marketing.	1	25 %
IV	Stock Exchange and Investor - Functionaries on Stock Exchange-Brokers, Sub Brokers, Market makers, Jobbers, Portfolio consultants, Institutional investors, Investor's protection- Grievances, Dealing and their removal, Grievance cells in Stock exchange, SEBI, Company law board, Press, Remedy through courts.	1	25 %

Reference Books:

1. Financial-Markets-and-Institutions BY SULTAN CHAND AND SONS
2. Money, Banking, and Financial BY Markets Dale K. Cline and Sandeep Mazumder.

Suggested Readings:

1. Financial-Markets-and-Institutions BY SULTAN CHAND AND SONS.

Online Resources:

1. Www.Pdfdrive.Com
2. www.slideshare.com



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Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelors of Business Administration **Subject/Branch:** Management

Year: I-Year

Semester: II (Second)

Course Title: Tourism and Travel Management **Course Code:** CPMJDSCCTM201A

Course Type: Major Core-4

Course Credit: 04

Pre-Requisite: The Candidate should have qualified in 10 + 2 examination.

Rationale: Understanding this field is essential for fostering cultural appreciation, promoting cross-cultural communication, and nurturing a responsible approach to sustainable tourism practices, thus preparing students for diverse career opportunities in the hospitality, travel, and leisure sectors.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE		
			30	20	50	100

Course Objective:

4. Develop an understanding of the fundamental concepts and principles of the travel and tourism industry.
5. Understanding historical and contemporary significance.
6. Impact of tourism on local and global economies.

Course Outcome:

4. Demonstrate an in-depth comprehension of the various components of the tourism and travel industry, including its socio-economic impact, cultural implications, and environmental sustainability.
5. Apply acquired knowledge and skills to develop strategic plans and solutions for addressing real-world challenges in the tourism and travel sector.
6. Fostering critical thinking and effective decision-making abilities.

Content:

Unit	Description in detail	Credit	Weightage
I	Tourism: • Concepts • Definitions and historical development. • Types of tourists: tourist, traveler, excursionists • Forms of tourism: inbound, outbound, domestic and international. • Nature and forms of Travel/Tourism • Nature of tourism industry • Characteristics of tourism industry • Components of tourism industry	1	27
II	• Motivation for travel: basic travel motivators, early travel motivators. • Tourism Demand • Motivation of Tourism Demand. • Measuring Tourism Demand. • Pattern and characteristic of tourism supply • Factors influencing tourism demand and supply. • Differences between Domestic & International Tourism	1	25 %

III	• Organizations in tourism • Need of tourism • Factors of tourism • National Tourist Organizations • Role and functions of Important Tourism Organizations: ○ WTO ○ IATA ○ PATA ○ TAAI ○ WTTC • Seasonality & tourism	1	25 %
IV	• Impacts of tourism at the destination. • Its impact: socio-cultural, environmental and economic. • Recent trends Domestic Tourism in India • International tourism trends in India • factors influencing for the development of International tourism in India.	1	25 %

Reference Books:

9. Introduction to Tourism : A.K.Bhatia
10. Tourism System : Mill R.C & Morrison
11. Tourism Development : R.Garther
12. Successful Tourism Management : Pran Nath Seth

Suggested Readings:

9. A.K.Bhatia, International Tourism Management
10. A.K.Bhatia, Tourism Development – Principles & Practices
11. K.K.Kamra & M.Chand, Basics of Tourism
12. P. N. Sethi, Successful Tourism Management
13. Tourism Management, Dr. Shubhada Marathe

Online Resources:

9. <https://tourismnotes.com/travel-tourism/>
10. <https://www.ihmnotes.in/assets/Docs/Sem-1/FO/1.TOURISM.pdf>
11. <https://ihmnotessite.com/index.php/tour-travel-management/tourist-and-tourism/>
12. https://www.tutorialspoint.com/tourism_management/tourism_management_tutorial.pdf

Practical / Activities:

5. Virtual Travel Blog: Ask students to create virtual travel blogs where they can write about a destination of their choice, including its attractions, cultural highlights, and unique features. Encourage them to include multimedia elements such as images and videos to make the blogs more interactive.
6. Destination Presentations: Assign students different destinations and ask them to prepare short presentations highlighting the key tourist attractions, local culture, and popular activities of their assigned location. Encourage them to use creative visuals and engaging storytelling to make their presentations informative and entertaining.



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Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelor of Business Administration **Subject / Branch:** Management

Year: I-Year

Semester: II (Second)

Course Title: Computer IT- II

Course Code: CPSECCOM206B

Course Type: Skill Enhancement

Course Credit: 02

Pre-Requisite: 10+2

Rationale: The course aims to familiarize the students with the concepts of computer networking and internet communication.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
1	0	1	Mid	CE		
			10	15		
					25	50

Course Objective:

4. To introduce students to the principles of computer networking and email communication.
5. To introduce students to the basics of Computer networking, connecting home computers to each other and internet communication.
6. To provide practical, hands-on experience through labs and projects.

Course Outcome:

4. Develop a mindset of continuous learning and adaptability to stay current with evolving technologies and industry trends.
5. Students should be aware of connecting computers, internet and internet communication.

6. It will allow students to apply their knowledge in real-world scenarios.

Content:

Unit	Description	Credit	Weightage
I	COMPUTER NETWORKING: Introduction: Meaning, Importance; Networking terms and concepts: IP address, Node, Routers, Switches, Ports, Network cable; Computer Network Types: LAN, WLAN, CAN, MAN, PAN, SAN, VPN, WAN; Network Topology: Bus Topology, Ring Topology, Star Topology, Mesh Topology.	0.50	25 %
II	SMALL OFFICE AND HOME (SOHO) NETWORKING: Meaning and advantages of SOHO, Setup and configure a basic SOHO router, network file storage types and locations. SOHO-networking devices.	0.50	25 %
III	INTRODUCTION TO INTERNET: World Wide Web; internet connectivity related trouble-shooting, Web Browsing softwares, Search Engines; Understanding URL; Domain name; IP Address; Using e-governance website.	0.50	25 %
IV	E-MAIL COMMUNICATION: Basics of electronic mail; Getting an email account; Sending and receiving emails; Accessing sent emails; Using Emails; Document collaboration; Instant Messaging; Netiquettes.	0.50	25 %

Text Books:

4. Fundamentals of Computer by E Balagurusamy, Tata McGraw Hill Education Pvt. Ltd, New Delhi
5. Fundamentals of Computer by V Rajaraman; Prentice Hall of India Pvt. Ltd., New Delhi
6. Computer Fundamentals by RS Salaria; Khanna Book Publishing Co. (P) Ltd., New Delhi.

Reference Books:

3. Fundamentals of Information Technology, Alexis Leon And Mathews Leon, Vikas Publishing House Pvt. Ltd, 2009
4. Fundamentals of Computers and Information Technology, M.N Doja, 2005

Online Resources:

3. <http://swayam.gov.in>
4. <http://spoken-tutorial.orgs>



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Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelor of Business Administration

Subject/Branch: Management

Year: I-Year

Semester: II (Second)

Course Title: Emotional Intelligence (EI)

Course Code: CPVACEMI205B

Course Type: Value Added

Course Credit: 02

Pre-Requisite: 10+2

Rationale : The course aims to familiarize the students with the basics of emotional Intelligence to enhance their personal, social and professional relationship.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
2	0	0	Mid	CE		
			10	15	25	50

Course Objective:

1. Introduce the concept of emotional intelligence, its models and components.
2. Understand the significance of emotional intelligence in self-growth and building effective relationships.
3. Identify the measures of emotional intelligence.

Course Outcome:

1. Self-Awareness, Self-Management, Social Awareness & Relationship Management.
2. Discover personal competence and techniques of building emotional intelligence.
3. Gain insights into establishing positive relationships.

Content:

Unit	Description in Detail	Credit	Weightage

I	Fundamentals of Emotional Intelligence • Nature and Significance • Models of emotional intelligence: Ability, Trait and Mixed • Building blocks of emotional intelligence: self-awareness, self-management, social awareness, and relationship management.	0.50	25 %
II	Personal Competence • Self Awareness: Observing and recognizing one's own feelings, Knowing one's strengths and areas of development. • Self-Management: Managing emotions, anxiety, fear, and anger.	0.50	25 %
III	Social Competence • Social Awareness: Others' Perspectives, Empathy and Compassion • Relationship Management: Effective communication, Collaboration, Teamwork, and Conflict management.	0.50	25 %
IV	Adolescent Education: Meaning and age group of adolescence. Problems faced by adolescents and their solutions. Emotional Intelligence for adolescents.	0.50	25%

Suggested Readings:

1. Bar-On, R., & Parker, J.D.A.(Eds.) (2000). The handbook of emotional intelligence. San Francisco, California: Jossey Bros.
2. Goleman, D. (2005). Emotional Intelligence. New York: Bantam Book.

3. Sternberg, R. J. (Ed.). (2000). Handbook of intelligence. Cambridge University Press.
4. HBR's 10 Must Reads on Emotional Intelligence (2015)

Practical / Activities:

Students will practice self-management techniques to regulate emotions such as

- Mindfulness
- Conditioned relaxation response
- Boundary setting
- Any other

Students will practice various techniques of relationship management such as engaging with:

- Display of empathy
- Effective communication
- Teamwork
- Conflict resolution
- Any other
- If required, students can share their experiences in the form of a Project Report.
- Any other Practical/Practice as decided from time to time.

BBA 3



Gokul Global University, Siddhpur



Faculty of Commerce and Management

Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelor of Business Administration

Year: II-Year

Course Title: Basics of Marketing

Course Type: Major Core-7

Pre-Requisite: 10+2

Subject/Branch: Management

Semester: III (Third)

Course Code: DPMJDSCMRK301B

Course Credit: 04

Rationale : The course aims to familiarize the students with concepts of Basics of Marketing and its applications in business.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE		
			30	20	50	100

Course Objective:

1. To introduce fundamental marketing concepts and strategies essential
2. To develop skills in market research and consumer analysis for informed decision-making and strategic planning.
3. To explore promotional and distribution techniques to effectively reach and engage target audiences.

Course Outcome:

After completion of the course, learners will be able to:

1. Understand and apply core marketing concepts and strategies to develop effective marketing plans.
2. Analyze consumer behavior and market trends to make informed marketing decisions.
3. Utilize various marketing tools and techniques for promotion, distribution, and brand management.

Content:

Unit	Description in Detail	Credit	Weightage
I	Introduction to Marketing • Overview of Marketing: Definition, importance, and evolution. • Marketing Concepts and Philosophies: Product, sales, market, and societal marketing concepts. • Marketing Mix (4 Ps): Product, Price, Place, Promotion. • Consumer Behavior: Understanding customer needs, decision-making processes, and buying behavior.	1	25 %
II	Market Research and Segmentation • Market Research Fundamentals: Types of market research, research methods, and data collection techniques. • Analyzing Market Trends: Using research data to identify and analyze market trends and opportunities. • Market Segmentation: Bases for segmentation (geographic, demographic, psychographic, behavioral), targeting, and positioning. • Competitor Analysis: Identifying competitors, analyzing their strategies, and assessing market position.	1	25 %

III	Marketing Strategies and Planning - Developing Marketing Strategies: Strategic planning process, SWOT analysis, and setting marketing objectives. - Product Life Cycle (PLC): Stages of PLC, strategies for each stage, and managing product portfolios. - Brand Management: Building and managing brand equity, brand positioning, and brand strategies.	1	30 %
IV	Promotion and Distribution - Promotion Strategies: Advertising, sales promotion, public relations, and personal selling. - Distribution Channels: Types of distribution channels, logistics, and channel management.	1	25%

Reference Books:

1. Marketing Management" by S. H. H. Kazmi and Satish K. Batra; Excel Books; 1st edition (2010).
2. Principles of Marketing" by Philip Kotler and Gary Armstrong (Indian Edition); Pearson India; 16th edition (2019).
3. Fundamentals of Marketing Management" by S. A. Sherlekar and V. S. R. K. Murthy; Himalaya Publishing House; 1st edition (2020).



Gokul Global University, Siddhpur
Faculty of Commerce and Management



Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelor of Business Administration **Subject / Branch:** Management

Year: II Year

Semester: III (Third)

Course Title: Business Law-I

Course Code: DPMJDSCBSL301A

Course Type: Major Core - 6

Course Credit: 04

Pre-Requisite: 10+2

Rationale: The course aims to familiarize the students with concept Business Law and its applications in business.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE		
			30	20	50	100

Course Objective:

1. The objective of the course is to impart basic knowledge of the important business legislation along with relevant case laws.
2. To provide the brief idea about the frame work of Indian Business Laws.
3. To orient students, about the legal aspects of business.

Course Outcome:

1. Understand basic aspects of contracts vis-a-vis agreements and subsequently enter into valid business propositions.
2. Recognize and differentiate between the special contracts.
3. Understand the rights and obligations under the Sale of Goods Act.

Content

Unit	Description in detail	Credit	Weightage
I	The Indian Contract Act, 1872: General Principles of Contract: Contract: Meaning, characteristics and kinds; Essentials of a valid contract: Offer and acceptance, consideration, contractual capacity, free consent, legality of objects; Void agreements; Discharge of a contract: modes of discharge, breach and remedies against breach of contract; Contingent contracts; Quasi contracts.	1	25 %
II	The Indian Contract Act, 1872: Specific Contracts: Contract of Indemnity and Guarantee Contract of Bailment Contract of Agency	1	25 %
III	The Sale of Goods Act, 1930: Contract of sale: Meaning and difference between sale and agreement to sell; Conditions and warranties; Transfer of ownership in goods including sale by a non-owner; Performance of contract of sale; Unpaid seller: Meaning, rights of an unpaid seller against the goods and the buyer.	1	25 %
IV	The Negotiable Instruments Act 1881: Meaning, Characteristics, and Types of Negotiable Instruments: Promissory Note, Bill of Exchange, Cheque; Holder and Holder in Due Course; Privileges of Holder in Due Course; Negotiation: Types of Endorsements; Crossing of Cheque and its types; Dishonour of Cheque.	1	25 %

Reference Books:

1. Business Laws: Rana, Desai and others: Sudhir Prakashan, Ahmedabad
2. Business Laws: Kumar Praksahan, Ahmedabad
3. Business Laws: Tulsian P C: S. Chand: New Delhi

Suggested Readings:

1. Khergamwala J.S. The Negotiable Instrument Act, N.M. Tripathi Pvt. Ltd., Mumbai.

2. Kuchal M.C., Business Law, Vikas Publishing House, New Delhi.
3. Singh Avtar, The Principles of Mercantile Law, Eastern Book Company, Lucknow.

Online Resources:

- 3) <https://www.pdfdrive.com>
- 4) www.slideshare.net

Course Outcomes	Expected Mapping With Program Outcome										
	1-Weak correlation, 2-Medium correlation,3-High correlation,										
	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1				2	1	1				
CO2	1				2	1	1				
CO3			1	1	2	1	1	3	3	1	2



Gokul Global University, Siddhpur
Faculty of Commerce and Management



Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelor of Business Administration

Year: II-Year

Course Title: E-Business

Course Type: Multi-Disciplinary -3

Subject / Branch: Management

Semester: III (Third)

Course Code: DPMDCEBS302B

Course Credit: 04

Pre-Requisite: 10+2

Rationale: The course aims to familiarize the students with the concept of E-Business and its applications in business.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE		
			30	20	50	50

Course Objective:

4. To explore fundamental e-business concepts.
5. To learn and apply skills in e-business technologies such as website development, online payments and data analytics.
6. To analyze market trends and implement effective e-business strategies.

Course Outcome:

4. Students will explore and understand key e-business concepts, including online business models and digital marketing strategies.
5. Students will learn and apply skills in e-business tools like website development, online payments, CRM software, and data analytics.
6. Students will explore market trends and learn to implement e-business strategies to enhance business performance and competitiveness..

Content

Unit	Description in detail	Credit	Weightage
I	Introduction to E-Business Introduction, E-Commerce – definition, History of E-commerce, types of E-Commerce B to B etc. Comparison of traditional commerce and e-commerce. E-Commerce business models – major B to B, B to C model, Consumer-to-Consumer (C2C), Consumer-to-Business (C2B) model, Peer to-Peer (P2P) model – emerging trends. Advantages/ Disadvantages of	0.5	25 %

	ecommerce, web auctions, virtual communities, portals, e-business revenue models.		
II	Security for E-Business Security threats – An area view – implementing E-commerce security – encryption – Decryption, Protecting client computers E-Commerce Communication channels and web servers Encryption, SSL protocol, Firewalls, Cryptography methods, VPNs, protecting, networks, policies and procedures	0.5	25 %
III	E-Business Marketing Technologies E-Commerce and marketing, B to B and B to C marketing and branding strategies in EMarketing . Web transaction logs, cookies, shopping cart database, DBMS, SQL, data mining	0.5	25 %
IV	E-Payments: E-payment systems – An overview. B to C payments, B to B payments. Types of E- payment system – Credit card payment, debit cards, accumulating balance, online stored value payment systems, digital cash, digital (electronic) wallets, smart cards and digital cheques. Secure Electronic Transaction (SET) protocol.	0.5	25 %

Reference Books:

- 5) Marriappa M – E- Commerce, 13 Edition
- 6) R. G. Saha, E-Business, HPH ,10th Edition

Suggested Readings:

- 7) M. Suman – E – Commerce & Accounting,2017,10 Edition
- 8) Kalakota Ravi and A. B. Whinston: “Frontiers of Electronic Commerce”, Addison ,2017
- 9) Watson R T :“Electronic Commerce – the strategic perspective.” The Dryden press,2016
- 10) Agarwala K.N and Deeksha Ararwala: “Business on the Net – Whats and Hows of ECommerce”,2017
- 11) Agarwala and Agarwala: “Business on the Net – Bridge to the online store front,” 2017
- 12) Murthy CSV: “E. Commerce” Himalaya Publishing House Pvt.Ltd,2016

Online Resources:

- 3) <https://www.pdfdrive.com>
- 4) www.slideshare.net



Gokul Global University, Siddhpur



Faculty of Commerce and Management

Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelors of Business Administration

Year: II-Year

Course Title: Functional English (FE)

Course Type: Ability Enhancement-3

Subject/Branch: Management

Semester: III (Third)

Course Code: DPAECENG304B

Course Credit: 02

Pre-Requisite: 10+2

Rationale : The course aims to develop essential communication skills for undergraduates: effective communication, business writing, emotional speech, and practical speaking for academic and professional success.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
2	0	0	Mid	CE		
			10	15	25	50

Course Objective:

19. Develop student's proficiency in effective communication.
20. Enhance writing skills for various formats, including business documents, resumes, and creative writing.
21. Improve verbal communication through emotive speech techniques and practical speaking exercises for everyday and professional contexts.

Course Outcome:

25. Students will demonstrate effective communication skills.
26. Students will produce well-structured business documents, resumes, and creative writings with clarity and precision.

27. Students will exhibit confidence and competence in verbal communication.

Content:

Unit	Description in Detail	Credit	Weightage
I	Communication Definition and objectives of communication; Essentials of an effective communication, 7 Cs of an effective communication; Five functions of language.	0.50	25 %
II	Writing Introduction to business writing, Paragraph writing, Story writing, Business letters, CV/Resume, Email basics, Note making.	0.50	25 %
III	Emotive Emphasis in speech Interjections, Exclamations, Words describing emotions, Rhetorical Questions.	0.50	25 %
IV	Speaking English speaking basics, Basic of greetings-common phrases, Greetings in the classroom, Greetings at the workplace, Basics of small talk, Self-Introduction, Talking about Friends, Neighbours, Seasons, Transportations, Clothes, Food ; Commonly asked questions in an Interview, Identify the Do's and Don'ts for job interview, Mock Interviews.	0.50	25%

Reference Books:

Sr. No.	Author	Name of the Book	Publisher	Year of Publication
1.	Madhumita Chakraborty, Sumita Puri and Jyoti Jakhar Dahiya	English Communication	McMillan Education India	Latest
2.	Board of Editors	Interactive English	McMillan Education India	Latest
3.	Dr. Richa Mishra and Dr. Ratna Rao	A Text Book of English and Communication	McMillan Education India	Latest

Suggested Readings:

5. Practical English Usage Book by Michael Swan Oxford Publication
6. IELTS Cambridge 1 to 9 – Cambridge University
7. Word Power Made Easy – Norman Lewis
8. Cambridge Grammar of English: A Comprehensive Guide by Ronald Carter (Author), Michael McCart

Online Resources:

16. www.youtube .com
17. British Council Learn English:
<https://learnenglish.britishcouncil.org/>
The British Council offers lessons, games, and activities to help students learn and practice English in an engaging way.
18. English Conversation Practice App from Google play store.

Practical / Activities:

17. Individual Oral Presentation in the classroom.
18. Home assignments for English Writing and Practice.

Course Outcomes	Expected Mapping With Program Outcome										
	1-Weak correlation, 2-Medium correlation,3-High correlation,										
	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5
CO1					2	1	1		3		
CO2	1		2		2		1				
CO3			1		2	1	1	3	3	1	2



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**Gokul Global University,
Siddhpur**



Faculty of Commerce and Management

Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelors of Business Administration **Subject / Branch:** Management

Year: II-Year

Semester: III (Third)

Course Title: FUNDAMENTALS OF ACCOUNTING

Course Code: DPMJDSCACC301

Course Type: Major Core-5

Course Credit: 04

Pre-Requisite: 10+2

Rationale : The course aims to familiarize the students with concepts of financial accounting and its application in Commerce.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE	50	100
			30	20		

Course Objective:

- 22.To familiarize the students with the process of recording basic accounting terms.
- 23.To provide students with the basic understanding to success in variety of entry level accounting position in an organisation.
24. Student will be well versed in the basics of accounting.

Course Outcome:

28. Develops analytical and decision making ability for general accounting work.
29. Maintain complete and systematic records of accounting transactions.
30. Work on accounting software as an accounting professional.

Content:

Unit	Description	Credit	Weightage
I	Conceptual Understanding Meaning and objectives of accounting, Business transaction.	1	25 %

	- Accounting principles and Conventions. - Basic Accounting terms: Capital, expenses, Assets, liabilities, debtors, creditors, goods, cost, gain, stock, purchase, sale, loss, profit, voucher, discount, drawing, depreciation, reserve and surplus, provisions. - Difference between capital and revenue expenditure. - Classification of accounts, Rules of Debit and Credit.		
II	Accounting Cycle - Introduction of Journal and ledger, recording the transaction into journal and ledger. - Preparing Trial balance and Subsidiary books.	1	25 %
III	Depreciation Fixed Instalment Method, Diminishing balance Method.	1	25 %
IV	Preparation of Final Accounts Trading account, profit & Loss account and Balance sheet of sole proprietor.	1	25 %

Reference Books:

Sr. No.	Author	Name of the Book	Publisher	Year of Publication

1.	T.S. Grewal	Introduction to Accountancy	S.Chand and Company	Latest.
2.	V. Rajasekaran & R. Lalitha	Financial Accounting	Pearson Publications	Latest
3.	Dr. Shradha Gangwar	Financial Accounting	Himalaya Publishing House	Latest

Suggested Readings:

22. Journal of Accounting in Emerging Economies, Emerald Publication
23. ICAI Journal

Online Resources:

1. www.youtube.com
2. www.slideshare.com
3. www.pdfdrive.com

Practical / Activities:

19. Quiz using Google Forms or Quizzes
20. Breakout room activity.

Course Outcomes	Expected Mapping With Program Outcome										
	1-Weak correlation, 2-Medium correlation,3-High correlation,										
	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	1	2	2	2	1	1	2	2	4	5
CO2	-	-	-	-	-	-	-	-	-	1	-
CO3	3	-	-	-	-	-	-	-	-	-	-



**Gokul Global University,
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Faculty of Commerce and Management

Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelor of Business Administration

Subject/Branch: Management

Year: II-Year

Semester: III (Third)

Course Title: Human Value and Indian Ethics

Course Code: DPIKSHVE303B

Course Type: IKS-2

Course Credit: 04

Pre-Requisite: 10 + 2

Rationale: It aims to foster ethical decision-making, integrity, and holistic development by integrating traditional Indian philosophies with modern ethical challenges.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE		
			30	20	50	100

Course Objective:

4. To understand and appreciate the foundational principles of human values and ethics within the Indian cultural context.
5. To critically analyze the ethical teachings and philosophies of key Indian thinkers and their relevance in contemporary society.
6. To develop the ability to apply these values and ethical principles in personal, professional, and social contexts to promote holistic well-being and integrity.

Course Outcome:

4. Students will gain a comprehensive understanding of fundamental human values, their significance in personal and professional life.
5. Learners will be equipped to apply Indian ethical principles and philosophies.
6. Students will develop enhanced ethical sensitivity and moral reasoning skills, enabling them to recognize and address ethical dilemmas effectively, promoting integrity and ethical conduct in their personal and professional endeavors.

Content:

Unit	Description in detail	Credit	Weightage
I	Introduction: • Introduction to Human Values, • Integrity and Honesty • Respect and Tolerance • Social Responsibility	1	28
II	Human Values, Ethics and Human Development: • Compassion and Empathy • Personal Development: Self-awareness, self-reflection, and strategies for personal growth and improvement. • Ethical Leadership • Ethical Dilemmas: Analyzing and resolving ethical dilemmas using ethical frameworks and decision-making models. • Human Rights	1	25 %
III	Ethical Landscape of India: • Indian Ethical Thought • Vedic and Upanishadic Ethics • Classical Indian Philosophies • Bhagavad Gita and Ethics • Contemporary Indian Ethical Thought • Ethics in Indian Literature • Comparative Ethical Analysis	1	25 %
IV	Dharma in Indian Culture: Ethical Values, Family Dynamics, and Contemporary Challenges" • Concept of Dharma and its significance in Indian Culture • Ahimsa (non-violence) and Satya (truthfulness). • Role of family, community, and societal values in life.	1	25 %

	• The concept of Karma and its implications on individual behavior. • Contemporary challenges to Indian values and ways to preserve and promote them.		

Reference Books:

13. "Indian Ethics: Classical Traditions and Contemporary Challenges" by Purusottama Bilimoria and Aleksandra Wenta
14. "Human Values and Ethics: A Practical Guide for Leaders, Managers, and Technocrats" by M. S. Rao
15. "Values and Ethics in Indian Management" by R. Srinivasan
16. "Indian Ethos and Values in Management" by R. P. Banerjee

Suggested Readings:

14. "Indian Ethics: Classical Traditions and Contemporary Challenges" by Purushottama Bilimoria, Joseph Prabhu, and Renuka Sharma
15. "Foundations of Indian Ethics: Selections from Classical Texts" by Chhanda Chakraborti, Sundar Sarukkai, and Michael D. Schwartz
16. "Hindu Ethics: Purity, Abortion, and Euthanasia" by Harold Coward, Julius J. Lipner, and Katherine K. Young
17. "Indian Ethics: Individual and Social" by P. T. Raju
18. "Ethics in the Vedas" by H. D. Bhattacharya

Online Resources:

13. https://www.researchgate.net/publication/338209701_The_Role_of_Indian_Ethics_and_Values
14. <https://pwnlyias.com/upsc-notes/ethics-and-human-interface/>
15. <https://edukemy.com/blog/human-values-upsc-ethics-notes/>
16. <https://ebooks.inflibnet.ac.in/hrmp01/chapter/sources-of-values/>

Practical / Activities:

7. Group Discussions and Debates: The relevance of ancient Indian ethical principles in modern society, Comparison of Western and Indian ethics, The role of values in personal and professional life.
8. Case Studies: Analyze real-life scenarios or historical events where Indian ethics played a crucial role, Discuss the ethical dilemmas faced and the values that guided the decisions.

Course Outcomes	Expected Mapping With Program Outcome										
	1-Weak correlation, 2-Medium correlation,3-High correlation,										
	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5
CO1		1			2	1	1		3		
CO2	1						1		2		
CO3			1	3	2	1	1	3	3	1	2



Gokul Global University, Siddhpur
Faculty of Commerce and Management



Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelor of Business Administration

Year: II-Year

Course Title: IT Skill & Data Analysis

Subject / Branch: Management

Semester: III (Third)

Course Code: DPSECITD305B

Course Type: Skill Enhancement -3

Course Credit: 02

Pre-Requisite: 10+2(Commerce) from a recognized education board.

Rationale: The course aims to familiarize the students with concepts of IT Skill & Data Analysis and its applications in Business.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
2	0	1	Mid	CE		
			10	15	25	50

Course Objective:

4. Develop proficiency in essential IT skills and tools for effective data management and analysis.
5. Acquire the ability to apply data analysis techniques to interpret and visualize data for informed decision-making.
6. Cultivate critical thinking and problem-solving skills through practical data analysis projects and case studies.

Course Outcome:

4. Develop proficiency in essential IT skills, including software applications and hardware troubleshooting.
5. Acquire the ability to analyze and interpret data using statistical and computational techniques.
6. Demonstrate competency in visualizing and presenting data insights to inform decision-making processes.

Content

Unit	Description in detail	Credit	Weightage
I	Information Technology Act, 2000	1	25 %

	Definition of Information Technology Act, Digital signature and certificates, Duties of subscriber, Penalties and adjudication, Right to Information Act, 2005, Origin of Information Technology Act, Objectives of Information Technology Act, Features of Information Technology Act, Challenges of Information Technology Act		
II	Data Analysis Data in Business environment, Sources of Data - Primary Data & Secondary data, Methods of collecting Primary Data and Secondary Data. Population and Sample, Data Formatting, Measures of Central Tendency Techniques of Data Collection: Census and Sampling techniques, methods of sampling.	1	25 %
III	Database Management System: Introduction to Database Management System; Advantages and Limitations of Database Management System; Traditional file system; Traditional file system vs. Database system; Evolution of Database Management Technology; Modern approach of Database; Managing Databases using MS Access; Creating Database; Understanding MS Access window; Application of MS Access in the field of Accounting.	1	25 %
IV	Application of Artificial Intelligence in Business: Meaning of Artificial Intelligence (AI); Benefits of AI; Applications of AI in business: Sales and Business Forecasting, Process Automation, Voice to Text Feature, Chatbots, Bigdata, Natural Language Processing, Machine Learning, AI in marketing and customer services.	1	25 %

Reference Books:

- Information Technology Control and Audit, Third Edition, Sandra Senft, Frederick Gallegos, CR Press
- Introduction to Computers, Peter Norton, McGrawHill, 2012.
- Using Information Technology, Brian K williams, Stacey C.Sawyer, Tata McGrawHil

Suggested Readings:

- Fundamentals of Computer – V . Rajaraman, Printice Hell of India.

5. Introduction to Computers–Peter Norton McGraw-Hill.
6. Computer Fundamentals–Pradeep. K. Sinha: BPB Publications.

Online Resources:

3. <https://online.stanford.edu/courses/soe-ycscs101-sp-computer-science-101>
4. <https://www.extension.harvard.edu/open-learning-initiative/intensive-introduction-computer-science>.

Practical / Activities:

- 11) Practical MS Word
- 12) Practical MS Excel

Course Outcomes	Expected Mapping With Program Outcome										
	1-Weak correlation, 2-Medium correlation,3-High correlation,										
	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5
CO1				3	2	1	1		3		
CO2	1		1								
CO3		2	1		2	1	1	3	3	1	2

BBA 4



**Gokul Global University,
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Faculty of Commerce and Management

Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelor of Business Administration **Subject/Branch:** Management

Year: II-Year

Semester: IV (Fourth)

Course Title: Business Law-2

Course Code: DPMJDSCBSL401A

Course Type: Major Core-9

Course Credit: 04

Pre-Requisite: 10+2

Rationale : The course aims to familiarize the students with the basics of emotional Intelligence to enhance their personal, social and professional relationship.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
04	0	0	Mid	CE		
			30	20	50	100

Course Objective:

1. To comprehend the fundamental principles of forming a contract of sale under The Sale of Goods Act, 1930.
2. To analyse and apply the various conditions and warranties relevant to the sale of goods.
3. To understand the processes of transferring ownership and delivery of goods, and the rights and remedies of an unpaid seller.

Course Outcome:

1. Identify key elements such as offer, acceptance, consideration, and intention to create legal relations.
2. Evaluate real-world scenarios to determine whether specific terms are conditions or warranties.
3. the rights of an unpaid seller and the legal remedies available in case of non-payment.

Content:

Unit	Description in Detail	Credit	Weightage
I	Agency: • Contract of Agency – Kinds of Agency – Duties and Rights of the Agent – Scope of Agent's Authority - liabilities of Principal and Agent to Third Parties – Termination of Agency.	1	25 %
II	The Indian Partnership Act, 1932 • General Nature of Partnership • Relations of Partners • Registration and Dissolution of a Firm	1	25 %
III	The Limited Liability Partnership Act, 2008 • Introduction-covering nature and scope, • Essential features, Characteristics of LLP, • Incorporation and Differences with other forms of organizations.	1	25 %
IV	The Companies Act, 2013 • Essential features of company, • Corporate veil theory, • Classes of companies, • Types of share capital, Incorporation of company.	1	25%

Suggested Readings:

1. "Introduction to the Law of Contract" by Robert J. Sharpe -2012
2. "Principles of Mercantile Law" by M. C. Kuchhal -2021

3. "Legal Method and Reasoning" by Sue Prince -2019
4. "Contract Law: Text, Cases, and Materials" by Ewan McKendrick -2021
5. "Anson's Law of Contract" by John Murphy and R. J. Smith -2021



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Gokul Global University, Siddhpur



Faculty of Commerce and Management

Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelor of Business Administration

Subject/Branch: Management

Year: II-Year

Semester: IV (Fourth)

Course Title: Soft Skill & Personality Development

Course Code: DPSECSPD405B

Course Type: Skill Enhancement-4

Course Credit: 02

Rationale: The Course in Soft Skills & Personality Development equips students with essential interpersonal abilities and self-improvement strategies, fostering personal and professional growth in today's interconnected and dynamic world.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
02	0	0	Mid	CE		
			10	15	25	50

Course Objective:

4. Development of Interpersonal Skills of Students.
5. Enhancement of Communication Skills of Students.
6. Personal and Professional Growth of Students.

Course Outcome:

4. Student will get Effective Communication Skills.
5. Develop good Interpersonal Skills and Team work in students.
6. Personal and Professional Development.

Unit	Description in Detail	Credit	Weightage
I	Introduction Understanding Soft Skills and their importance in personal and professional life. Communication Skills: Verbal and non-verbal communication, active listening, and effective speaking. Interpersonal Skills: Building rapport, empathy, conflict resolution, and networking. Time Management: Goal setting, prioritization, and Effectivetime utilization.	0.5	25 %
II	Communication and Presentation: Effective Written Communication: Email etiquette, writing clear and concise messages. Public Speaking: Overcoming stage fright, structuring speeches, and engaging an audience. Presentation Skills: Designing visually appealing slides, delivering impactful presentations. Non-verbal Communication: Body language, facial expressions, and gestures.	0.5	25 %
III	Developing Self-Confidence: Overcoming self-doubt, positive self-talk, and body language. Stress Management: Techniques to handle stress and maintain emotional well-being. Adaptability and Resilience: Dealing with change and challenges effectively. Positive Attitude: Cultivating optimism and growth mindset.	0.5	31 %

IV	Interpersonal Skills and Professional Etiquette Team work and Collaboration: Effective participation in teams, conflict resolution, and cooperation. Networking Skills: Building and maintaining professional relationships. Business Etiquette: Proper behaviour in a professional setting, dressing appropriately. Interview Skills: Preparing for interviews, resume writing, and showcasing soft skills to employers.	0.5	25%

Reference Books:

- 1) Meena K and V. Ayothi (2013) A Book on Development of Soft Skills
- 2) Alex K. (2012) Soft Skills - Know Yourself & Know the World

Online Resources:

- 1) <https://www.pdfdrive.com>
- 2) www.slideshare.net



**Gokul Global University,
Siddhpur**

Faculty of Commerce and Management



Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelor of Business Administration
Management

Subject/Branch:

Year: II-Year

Semester: IV (Fourth)

Course Title: Digital Marketing

Course Code:

DPMIDMK402B

Course Type: Minor Stream-3

Course Credit: 04

Pre-Requisite: 10+2

Rationale : The course aims to familiarize the students with the Concepts & Application of Digital Marketing.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE		
			30	20	50	100

Course Objective:

1. To introduce key concepts and strategies in digital marketing, focusing on the effective use of online channels.
2. To develop practical skills in digital tools and platforms, enhancing students' ability to create and manage marketing campaigns.
3. To teach methods for analyzing and optimizing digital marketing performance, ensuring data-driven decision-making.

Course Outcome:

After completion of the course, learners will be able to:

1. Understand and apply core digital marketing strategies to effectively reach and engage target audiences.

2. Utilize various digital marketing tools and platforms to create, execute, and manage successful campaigns.
3. Analyze and optimize digital marketing efforts using data-driven insights for improved performance.

Content:

Unit	Description in Detail	Credit	Weightage
I	Introduction to Digital Marketing - Overview of Digital Marketing: Definition, importance, and evolution. - Traditional Marketing vs. Digital Marketing: Key differences and advantages. - Digital Marketing Channels: Search engines, social media, email, content, and mobile marketing. - Consumer Behavior in the Digital Age: Understanding the digital customer journey.	1	25 %
II	Core Digital Marketing Strategies - Search Engine Optimization (SEO): Basics of on-page and off-page SEO, keyword research, and link building. - Search Engine Marketing (SEM): Introduction to Google Ads, PPC campaigns, and paid search strategies. - Content Marketing: Creating and distributing valuable content to attract and engage target audiences. - Social Media Marketing: Strategies for Facebook, Instagram, Twitter, LinkedIn, and other platforms.	1	25 %
III	Digital Marketing Tools and Techniques - Email Marketing: Crafting effective email campaigns, list building, and automation tools. - Website Analytics: Introduction to Google Analytics, key metrics, and data interpretation. - Affiliate Marketing: Overview, how it works, and its role in digital marketing. - Influencer Marketing: Leveraging influencers to build brand awareness and credibility.	1	25 %

IV	Measuring and Optimizing Digital Marketing Performance - Digital Marketing Metrics and KPIs: Identifying and tracking key performance indicators. - A/B Testing and Conversion Rate Optimization (CRO): Techniques for improving campaign effectiveness. - Data-Driven Decision Making: Using analytics to refine strategies and enhance results. - Ethics in Digital Marketing: Understanding data privacy, ethical advertising, and regulatory compliance.	1	25%

Reference Books:

1. Digital Marketing: A Practical Approach" by Sandeep Kumar and Pankaj Kumar; Tata McGraw Hill Education; 1st edition (2020).
2. Digital Marketing for Dummies" by Ravi S. Kumar; Wiley India; 1st edition (2019).
3. Fundamentals of Digital Marketing" by Pradeep Kumar; Vikas Publishing House; 1st edition (2021).



Gokul Global University, Siddhpur
Faculty of Commerce and Management



Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelor of Business Administration

Year: II- Year

Course Title: Financial Accounting

Course Type: Major Core-8

Subject / Branch: Management

Semester: IV (FOURTH)

Course Code: DPMJDSCACC401

Course Credit: 04

Pre-Requisite: 10+2

Rationale: Financial Accounting provides essential insights into a company's financial health by systematically recording, summarizing, and reporting financial transactions.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE		
			30	20	50	100

Course Objectives:

1. Students will gain a thorough understanding of consignment accounting.
2. Students will learn to accurately account for joint ventures.
3. Students will develop skills to manage and record branch transactions, consolidate branch accounts with the head office, and prepare financial statements for branches and the main office.

Course Outcomes:

1. Students will demonstrate the ability to accurately prepare consignment accounts and financial statements.
2. Students will be adept at preparing joint venture accounts and financial statements, ensuring accurate representation of transactions and financial outcomes between joint venture partners.
3. Students will efficiently manage and consolidate branch accounts, producing accurate and comprehensive financial statements for both branch operations and the head office.

- Students will proficiently apply accounting methods for hire-purchase and installment transactions, ensuring proper revenue recognition, expense allocation, and financial reporting.

Content

Unit	Description in detail	Credit	Weightage
I	Consignment Accounting	1	25 %
II	Joint Venture Accounts	1	25 %
III	Branch Accounts	1	25 %
IV	Hire-Purchase and Installment System	1	25 %

Reference Books:

- M. C. Shukla, T. S. Grewal and S. C. Gupta. Advanced Accounts. Vol. -I. S. Chand & Co., New Delhi.
- S. N. Maheshwari, and. S. K. Maheshwari. Financial Accounting. Vikas Publishing House, New Delhi.
- Deepak Sehgal. Financial Accounting. Vikas Publishing House, New Delhi

Suggested Readings:

- C.A. Foundation and Intermediate Study Material, ICAI, New Delhi.
- Robert N Anthony, David Hawkins, Kenneth A. Merchant, Accounting: Text and Cases.
- McGraw-Hill Education, 13 Ed. 2013.
- Charles T. Horngren and Donna Phil brick, Introduction to Financial Accounting, Pearson Education

Online Resources:

- <https://www.pdfdrive.com>
- www.slideshare.net



Gokul Global University, Siddhpur
Faculty of Commerce and Management



Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelor of Business Administration

Subject / Branch: Management

Year: II-Year

Semester: IV (Fourth)

Course Title: Financial Literacy

Course Code: DPAECFIL404B

Course Type: Ability Enhancement-4

Course Credit: 02

Pre-Requisite: 10+2.

Rationale: The course aims to familiarize the students with concepts of financial literacy in present time.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
2	0	0	Mid	CE		
			25	00	25	50

Course Objective:

4. Equip students with essential financial skills, including budgeting, saving, investing, and managing debt.
5. Teach students to create and implement effective financial plans that align with their personal goals and financial circumstances.
6. Increase students' awareness of banking, digital payment systems, and investment opportunities to enhance their financial well-being.

Course Outcome:

5. Students will be able to manage their personal finances effectively, including budgeting, saving, and debt management.
6. Students will understand various investment options and strategies, enabling them to make informed investment decisions.
7. Students will be adept at using financial tools and resources, such as banking services, digital payments, and financial planning software.

Content

Unit	Description in detail	Credit	Weightage
I	Financial Planning and Financial Products • Introduction to Saving • Time value of money • Management of spending and financial discipline	0.5	25 %
II	Banking and Digital Payment • Banking products and services • Digitization of financial transactions: Debit Cards (ATM Cards) and Credit Cards., Net banking and UPI, digital wallets • Security and precautions against Ponzi schemes and online frauds	0.5	25 %
III	Investment Planning and Management • Investment opportunity and financial products • Insurance Planning: Life and non-life including medical insurance schemes	0.5	25 %
IV	Personal Tax • Introduction to basic Tax Structure in India for personal taxation • Aspects of Personal tax planning • Exemptions and deductions for individuals • e-filing	0.5	25 %

Reference Books:

1. Avadhani, V A (2019), Investment Management , Mumbai: Himalaya Publishing House Pvt Ltd
2. Chandra, P (2012), Investment Game: How to Win . New Delhi: Tata McGraw Hill Education.
3. Kothari , R (2010), financial Services in India: Concept and application. New Delhi: Sage Publication India Pvt td
4. Milling B. E, (2003), The Basics of Finance: Financial Tools for Non Financial Managers, Indiana : Universe Company.
5. Zokaityte , A (2017), Financial Literacy Education. London: Palgrave Macmilla

Online Resources:

3. <https://www.khanacademy.org/college-careers-more/financial-literacy>
4. <https://www.edx.org/learn/financial-literacy>

Course Outcomes	Expected Mapping With Program Outcome										
	1-Weak correlation, 2-Medium correlation,3-High correlation,										
	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5
CO1				3	2	1	1		3		
CO2	1		1								
CO3		2	1		2	1	1	3	3	1	2



Gokul Global University, Siddhpur
Faculty of Commerce and Management



Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelor of Business Administration **Subject / Branch:** Management
Year: II-Year **Semester:** IV (Fourth)
Course Title: Life Skill Education **Course Code:** DPVACLSE403B
Course Type: Value Added-2 **Course Credit:** 02

Pre-Requisite: 10+2

Rationale: The course aims to familiarize the students with concepts of need of life skills in personal and professional life.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
02	0	0	Mid	CE		
			10	15	25	50

Course Objective:

1. Provide strategies for managing emotions and stress.
2. Encourage sound decision-making through critical analysis.
3. Equip students with clear and effective communication abilities.

Course Outcome:

1. students recognize and manage their strengths and weaknesses.
2. Students communicate effectively in various contexts.
3. Students make informed decisions using critical analysis.
4. Students manage stress and emotions successfully.

Content

Unit	Description in detail	Credit	Weightage
I	OVERVIEW OF LIFE SKILLS Meaning and significance of life skills, Life skills identified by WHO: Self- awareness, Empathy, Critical thinking, Creative thinking, Decision making, problem solving, Effective communication, interpersonal relationship, coping with stress, coping with emotion.	1	25 %
II	LIFE SKILLS FOR PROFESSIONALS: Positive thinking, right attitude, attention to detail, having the big picture, learning skills, research skills, perseverance, setting goals and achieving them, helping others, leadership, motivation, self-motivation, and motivating others, personality development, IQ, EQ, and SQ	1	25 %

III	SELF-AWARENESS: Definition, need for self-awareness; Coping with Stress and Emotions, Human Values, tools and techniques of SA: questionnaires, journaling, reflective questions, meditation, mindfulness, psychometric tests, feedback. Stress Management: Stress, reasons and effects, identifying stress, stress diaries, the four as of stress management, techniques, Approaches: action-oriented, emotion oriented, acceptance- oriented, resilience, Gratitude Training, coping with emotions: Identifying and managing emotions, harmful ways of dealing with emotions, PATH method and relaxation techniques.	1	25 %
IV	21ST CENTURY SKILLS: Creativity, Critical Thinking, Collaboration, Problem Solving, Decision Making, Need for Creativity in the 21st century, Imagination, Intuition, Experience, Sources of Creativity, Lateral Thinking, Myths of creativity, Critical thinking Vs Creative thinking, Functions of Left Brain & Right brain, Convergent & Divergent Thinking, Critical reading & Multiple Intelligence. Steps in problem solving:	1	25 %

Reference Books:

1. "Life Skills Education: Creating a World of Possibilities" by C. S. Prabhu
2. "The 7 Habits of Highly Effective People" by Stephen R. Covey
3. "The Life Skills Handbook: Equipping Young People for Life" by Tanya Devonald and Vanessa McKay

Suggested Readings:

1. "Mindset: The New Psychology of Success" by Carol S. Dweck
2. "Emotional Intelligence: Why It Can Matter More Than IQ" by Daniel Goleman

Online Resources:

<https://www.mindtools.com/>

<https://www.verywellmind.com/>

Practical / Activities:

1. Quiz using Google Forms or Quizzes
2. Sum solving

Course Outcomes	Expected Mapping With Program Outcome										
	1-Weak correlation, 2-Medium correlation,3-High correlation,										
	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	-	1	-	-	2	1	3	-	3	-	-
CO2	1	-	-	-	-	-	-	-	2	-	-
CO3	-	-	1	2	-	1	-	2	3	1	2



**Gokul Global University,
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Faculty of Commerce and Management

Syllabus

(As per the Guidelines of New Education Policy-2020)

Program: Bachelor of Business Administration

Year: II

Course Title: Marketing Management

Course Type: Major Core-10

Pre-Requisite: 10+2

Subject/Branch: Management

Semester: IV (Fourth)

Course Code: DPMJDSCMKM401B

Course Credit: 04

Rationale : The course aims to familiarize the students with concepts of Basics of Marketing and its applications in business.

Teaching Examination Scheme:

Teaching (Hours/week)			Examination Scheme			
Lecture	Tutorial	Practical	Internal		External	Total
4	0	0	Mid	CE	50	100
			30	20		

Course Objective:

1. To outline key marketing concepts and its application to different markets
2. To identify factors and processes essential for designing marketing strategy
3. To analyze and examine the implementation of marketing concepts and strategy to firms

Course Outcome:

After completion of the course, learners will be able to:

1. To Outline Key Marketing Concepts and Its Application to Different Markets.
2. To Identify Factors and Processes Essential for Designing Marketing Strategy.
3. To Analyze and Examine the Implementation of Marketing Concepts and Strategy to Firms.
4. Formulate a marketing* plan that will meet the needs or goals of a business or organization.

Content:

Unit	Description in Detail	Credit	Weightage
I	Buyer Behavior :	1	25 %

	Consumers markets and Industrial Market : model of Consumer behavior, Factors influencing behavior, Buying behavior process characteristics of Industrial market, major influencing factor on industrial buying behavior types of buying decision and how to make buying decision.		
II	Target Marketing : Market segmentation on different basis and target marketing strategies. Consumerism : Concept, Causes, consumer movement in India.	1	25 %
III	Advertising: Advertising goals, Determination of advertising Budget Simple and Dynamic models Competitive model, Adaptive models. Specification of the media schedule media planning, specification of copy and format.	1	26 %
IV	Issues and Developments in Marketing Social, ethical and legal aspects of marketing; Marketing of services; International marketing; Green marketing; Cyber marketing; Relationship marketing and other developments of marketing	1	25%

Reference Books:

1. Marketing Management by Philip Kotler.
2. Introduction to Marketing Management by Sherlekar
3. Fundamentals of Marketing Management by Prof.S.A.Sherlekar and R.Krishnamoorthy
4. Dr. R. B. Rudani, Basics of Marketing management, S.Chand& Company Ltd

Suggested Readings:

1. Fundamentals of Marketing Management by Prof.S.A.Sherlekar and R.Krishnamoorthy

2. Dr. R. B. Rudani, Basics of Marketing management, S.Chand&
Company Ltd