



**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**

## **B.Sc(Hons.) Agriculture**

### **Yearly Structure System**



## Teaching scheme

### Agri. First Sem

Subject Code	Subject Name	Teaching Scheme (Hours)			Credits
		Theory	Tutorial	Practical	
Agron.1.1	Fundamentals of Agronomy-I	50		50	1+0
Ag.Chem.1.1	Fundamentals of Soil Science-I	50	20	30	2+1
Ag.Met.1.1	Introductory Agro meteorology & Climate Change	50	20	30	1+1
Ag.Micro.1.1	Agricultural Microbiology	50	20	30	1+1
Ag.Stat.1.1	Agricultural Informatics	50	20	30	2+1
GPB.1.1	Introductory Botany	50	20	30	1+1
Hort.1.1	Fundamentals of Horticulture	50	20	30	1+1
Pl.Path.1.1	Fundamentals of Plant Pathology	50	20	30	2+1
Eng.1.1	Comprehension and Communication Skill in	50	20	30	1+1
Maths.1.1	Elementary Mathematics	50	50	-	2+0
HVE.1.1	Human value & Ethics (Non gradial)	50	50	-	1+0
PE.1.1	NSS/NCC/Physical Education & Yoga Practices (Non gradial)	-	-	100	0+1



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### **PROGRAMME OUTCOMES (POs)**

A student upon successful completion of Agriculture in should be able to assume responsibilities as Agriculture specialists, consultants, educators, administrators in a wide variety of professional settings.

### **PROGRAMME SPECIFIC OUTCOMES (PSOs)**

1. Utilize/apply the concepts, theories and principles of Agriculture
2. Demonstrate advance competence in practice of Agriculture .
3. Practice as a Agriculture specialist.
4. Demonstrate leadership qualities and function effectively as Agriculture educator and manager.
5. Demonstrate skill in conducting research, interpreting and utilizing the findings from health related research.
6. Demonstrate the ability to plan and effect change in Agriculture practice and in the delivery system.
7. Establish collaborative relationship with members of other disciplines.
8. Demonstrate interest in continued learning for personal and professional advancement.



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## **Agron.1.1**

Placement : 1<sup>st</sup> Sem

### **Course Description :-**

Agronomy and its scope, seeds and sowing, tillage and tilth, crop density and geometry, Intercultural operations, concept of yield and yield components, Crop nutrition, manures and fertilizers, nutrient use efficiency . Classification of crops. Agroclimatic zones of West Bengal. Growth and development of crops, factors affecting growth and development, plant ideotypes, crop rotation and its principles, adaptation and distribution of crops, crop management technologies in problematic areas, harvesting and threshing of crops, principles of storage

Objectives :-

At the end of the course, students will be able to :

Identification of crops, seeds, fertilizers, pesticides and tillage implements, Effect of sowing depth on germination and seedling vigour, Methods of fertilizer application, Study of yield contributing.

### **Course Content**



Units	Hours		Course Content
	Theory	Practical	
I	10		<b>Introduction :</b> <ul style="list-style-type: none"><li>□ Introduction of indian agri. Heritage, Ancient agri. Practices.</li><li>□ Journy of indian agri. Through protection.</li><li>□ Impact of Social, economical, political &amp; technological changes on education:<ul style="list-style-type: none"><li>● Professional education</li><li>● Current trends and issues in education</li><li>● Educational reforms and National Educational policy,</li><li>● various educational commissions-reports</li><li>● Trends in development of nursing education in India</li></ul></li></ul>
			<ul style="list-style-type: none"><li>●</li></ul>



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## **Fundamentals of Soil SIECNCE**

Placement: 1<sup>st</sup> sem

Hours of Instruction

Theory 50 Hours

Practical 40 Hours

Total : 100 Hours

### **Course Description**

Soil profile-definition of soil profile, horizon, different types of horizon with characters. Soil Texture – Definition, methods of textural analysis, stock's law, assumptions, limitation, textural classes, use of textural triangle and relationship between texture and other soil properties. Soil Structure – Definition and classification of soil structure, difference between soil texture and soil structure, genesis.

### **Objectives:**

At the end of the course the students will be able to:

Pedological and Edaphological concept: Definition of Pedology and Edaphology, Difference between Pedology and Edaphology, Definition of Soil, soil as a natural body, components of soil, concept of pedon, polypedon etc. Rocks and minerals-classification and composition: Definition of rocks and minerals, Rock formation- factors, Classification of rocks – igneous, sedimentary and metamorphic rocks and Definition of minerals, Secondary and primary minerals: description with examples. Weathering of rocks and minerals- definition, types of weathering- physical, chemical & biological weathering with examples. Soil formation-factors and processes: Soil formation: soil forming factors: passive & active factors, age of soil, Fundamental processes of soil formation, Different process of soil formation like podzolization, laterization etc. Elementary knowledge of soil taxonomy, classification and soils of India; Soil profile-definition of soil profile, horizon, different types of horizon with characters. Soil Texture – Definition, methods of textural analysis, stock's law, assumptions, limitation, textural classes, use of textural triangle and relationship between texture and other soil properties. Soil Structure – Definition and classification of soil structure, difference between soil texture and soil structure, genesis of soil structure and aggregate formation. Important/agricultural significance of soil structure



**Course Content :-**

Unit	Hours	Content
<b>I</b>	<b>10</b>	<ul style="list-style-type: none"><li>□ Study of soil profile in field. Study of soil sampling tools, collection of representative soil sample</li><li>□ Pedological and Edaphological concept: Definition of Pedology and Edaphology</li><li>□ Difference between Pedology and Edaphology, Definition of Soil, soil as a natural body, components of soil, concept of pedon, polypedon etc</li></ul>
<b>II</b>	<b>10</b>	<ul style="list-style-type: none"><li>□ capillary rise phenomenon of water in soil column and water movement in soil.</li><li>□ Rocks and minerals-classification and composition: Definition of rocks and minerals, Rock formation- factors, Classification of rocks – igneous, sedimentary and metaphorphic</li><li>□ Secondary and primary minerals: description with examples.</li></ul>



<b>III</b>	<b>10</b>	<ul style="list-style-type: none"><li><input type="checkbox"/> Secondary and primary minerals: description with examples.</li><li><input type="checkbox"/> Fundamental processes of soil formation, Different process of soil formation like podzolization, laterization etc.</li><li><input type="checkbox"/> Elementary knowledge of soil taxonomy, classification and soils of India; Soil profile-definition of soil profile, horizon, different types of horizon with characters.</li></ul>
<b>IV</b>	<b>10</b>	<ul style="list-style-type: none"><li><input type="checkbox"/> Soil Texture – Definition, methods of textural analysis, stock's law, assumptions, limitation, textural classes, use of textural triangle and relationship between texture and other soil properties.</li></ul>
<b>V</b>	<b>10</b>	Soil Structure – Definition and classification of soil structure, difference between soil texture and soil structure, genesis of soil structure and aggregate formation. Important/agricultural significance of soil structure, management of soil structure.

<b>COs</b>	<b>POs/ PSOs</b>
<b>COs 1</b>	Pos-1 , PSOs-1 to 5
<b>COs 2</b>	Pos-1 , PSOs-1 to 5
<b>Cos 3</b>	Pos-1 , PSOs-1 to 5
<b>COs 4</b>	Pos-1 , PSOs-1 to 5
<b>COs 5</b>	Pos-1 , PSOs-1 to 7





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Ag.Met.1.1

Placement: 1<sup>st</sup> sem

Hours of instruction

Theory: 50 Hours

Practical: 50Hours

Total : 100 Hours

## Course Description

Meaning and scope of agricultural meteorology, Earth atmosphere its composision extent and structure atmospheric pressure

Objectives :-

At the end of the course the students will be able to:

Sociology and Rural Sociology-Meaning, Definition, Scope, its significance in Agricultural Extension, Indian Rural Society-

Important characteristics, Differences and Relationship between Rural and Urban societies;

Construction of Frequency Distribution from Ungrouped and Grouped Data; Calculation of different measures of Location and Dispersion from Ungrouped and Grouped frequency distributions.Calculation of simple correlation coefficient; Fitting of Linear Regression Equations.

Definition, Nature of Social change, Dimensions of social change and factors of social change.



**COURSE CONTENT:**

Unit	Hours	Content
I	10	<b>Introduction:</b> <ul style="list-style-type: none"><li>□ Agricultural Extension; Motivation – Meaning, Definition, Motivation cycle, Types, Classification of Motives, Theories of motivation</li><li>□ Teaching – Learning process – Meaning and Definition of Teaching, Learning, Learning experience and Learning situation</li></ul>
II	10	<b>Health Assessment of patients</b> <ul style="list-style-type: none"><li>□ Communication: Meaning and process of communication, verbal and nonverbal communication, individual and group.</li></ul>
III	10	<ul style="list-style-type: none"><li>□ <b>Structural and functional Grammar: Introduction of Word Classes; Structure of Verb in English; Uses of Tenses; Study of Voice; Study of Conjunctions and Prepositions</b></li><li>□ <b>Comprehension skill: Reading and comprehension of general and technical articles.</b></li></ul>
IV	10	<b>Management of patients with disorders of Gastro intestinal tract</b> <ul style="list-style-type: none"><li>□ <b>Spoken English: Conversations of everyday life, the concept of stress, stress shift. Silent letters in words, basic intonation patterns, preparing and address.</b></li><li>□ <b>Nature and origin of soils; soil forming rocks and minerals, their classification and composition, Soil forming processes, classifications of soils – soil taxonomy orders, Important soil physical properties and their importance; soil particle distribution</b></li></ul>
V	10	<ul style="list-style-type: none"><li>□ <b>Soil inorganic colloids-their composition, properties and origin of charge ,Ion exchange in soil and nutrient availability, Soil organic matter-its composition and decomposition, effect on soil fertility,</b></li></ul>



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

<b>Cos</b>	<b>POs/ PSOs</b>
<b>COs 1</b>	Pos-1 , PSOs-1 to 7
<b>COs 2</b>	Pos-1 , PSOs-1 to 7
<b>Cos 3</b>	Pos-1 , PSOs-1 to 7
<b>COs 4</b>	Pos-1 , PSOs-1 to 7
<b>COs 5</b>	Pos-1 , PSOs-1 to 7
<b>COs 6</b>	Pos-1 , PSOs-1 to 7



Ag.Micro.1.1

Placement : 1st sem

Hours of Instruction

Theory : 50 Hours.

Practical : 50 Hours.

Total : 100 Hours

## Course Description

### Introduction Microbiology world prokaryotic and eukaryotic microbes, bacteris cell.

At the end of the course the students will be able to:

Ransportation recombination biological nitrogen fixation.

Microbiology laboratory and its power

### Course Content :-

Units	Hours	Content
<b>I</b>	<b>10</b>	<b>Introduction</b> <ul style="list-style-type: none"><li>□ History and Scope of Microbiology: The discovery of micro-organism, spontaneous generation conflict, germ theory of diseases, microbial effect on organic and inorganic matter.</li><li>□ Microscopy and Specimen Preparation: The bright field microscope, fixation, dyes and simple staining,</li><li>□ Difference between prokaryotic and eukaryotic cells.Prokaryotic cell structure and functions.</li></ul>
<b>II</b>	<b>10</b>	<ul style="list-style-type: none"><li>□ History and Scope of Microbiology: The discovery of micro-organism, spontaneous generation conflict, germ theory of diseases, microbial effect on organic and inorganic matter.</li></ul>
<b>III</b>	<b>25</b>	<ul style="list-style-type: none"><li>□ Measurement of bacterial growth.G</li><li>□ General properties of viruses and brief description of bacteriophages</li><li>□ DNA as genetic material.</li><li>□ Antibiosis, symbiosis, intra-microbial and extra-microbial association</li></ul>



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

Cos	POs/ PSOs
COs 1	Pos-1 , PSOs-1 to 5
COs 2	Pos-1 , PSOs-1 to 4
Cos 3	Pos-1 , PSOs-1 to 3

Hours of Instruction Theory 150 Hours

Practical 650 Hours Total : 800 Hours

Ag.Sat.1.1

Placement : 1<sup>st</sup> sem

### Course Description

**Basic Concept: Introduction to statistics, Limitations of statistics, variable, statistic, parameter, types and sources of data, construction of frequency distribution tables, graphical representation of data, Measures of location and dispersion for raw and grouped data.**

### Objectives

At the end of the course the students will be able to:

Theory of Probability: Definitions (Classical, Empirical, Axiomatic) of Probability;

Theorem on Total and Compound Probability (For two events only without proof),

Probability Mass Function and Probability Density Function; Mathematical Expectation and Variance;

Theoretical Distributions: Binomial Distribution, Poisson distribution – Derivation of their mean and variance only.

Correlation and Regression: Simple Correlation and Regression.

Basic concept of sampling, Advantages of Sample Survey over Census Survey;

### Course Content

<b>I</b>	<b>10</b>	<input type="checkbox"/> Concept of Statistical Hypotheses, Critical Region, Acceptance Region, Level of Significance; Type I Error, Type II Error, Power of a Test and Test of Significance, Application of $\tau$ , chi-square and F Statistics. <input type="checkbox"/> Experimental Designs: Basic concepts, Completely Randomized Design, Randomized Block Design and Latin Square design. <input type="checkbox"/> Construction of Frequency Distribution from Ungrouped and Grouped Data;
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<b>II</b>	<b>10</b>	<input type="checkbox"/> Calculation of different measures of Location and Dispersion from Ungrouped and Grouped frequency distributions. <input type="checkbox"/> .Calculation of simple correlation coefficient; <input type="checkbox"/> Fitting of Linear Regression Equations.
<b>III</b>	<b>10</b>	<input type="checkbox"/> Application of t, chi-square and F Statistics for Test of Significance in different statistical problems. <input type="checkbox"/> Analysis of data from experiments laid out in CRD, RBD and LSD. <input type="checkbox"/> Introduction to statistics, <input type="checkbox"/> Introduction to statistics,

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

<b>Cos</b>	<b>POs/ PSOs</b>
<b>COs 1</b>	Pos-1 , PSOs-1 to 7
<b>COs 2</b>	Pos-1 , PSOs-1 to 7
<b>Cos 3</b>	Pos-1 , PSOs-1 to 7
<b>COs 4</b>	Pos-1 , PSOs-1 to 7
<b>COs 5</b>	Pos-1 , PSOs-1 to 7

### GPB.1.1

Placement: 1<sup>st</sup> SEM

Hours of Instruction  
Theory 50hours  
Practical 50 hoursTotal : 100 hours

<b>II</b>	<b>10</b>	<input type="checkbox"/> Determination of linkage and cross over analysis (through two point test cross and three point test cross data).Study of models on DNA and RNA structure. <input type="checkbox"/> sex limited and sex influenced traits.Linkage and its estimation, <input type="checkbox"/> , crossing over mechanisms and chromosome mapping. <input type="checkbox"/> Structural and numericalchanges in chromosome, Mutation, classification.
<b>III</b>	<b>10</b>	<input type="checkbox"/> Methods of inducing mutation& CIB technique; mutagenic agents and induction of mutation <input type="checkbox"/> Qualitative & Quantitative traits, <input type="checkbox"/> Polygenes and continuous variations;

<b>IV</b>	<b>10</b>	<input type="checkbox"/> multiple factor hypothesis <input type="checkbox"/> „Cytoplasmic inheritance and maternal effect. Genetic disorders. <input type="checkbox"/> Nature, structure and replication of genetic material.
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Mapping of Course Outcomes (COs) with Program Outcomes (POs) and Program Specific Outcomes (PSOs):

<b>Cos</b>	<b>POs/ PSOs</b>
<b>COs 1</b>	Pos-1 , PSOs-1 to 2
<b>COs 2</b>	Pos-1 , PSOs-1 to 7
<b>Cos 3</b>	Pos-1 , PSOs-1 to 4
<b>COs 4</b>	Pos-1 , PSOs-1 to 4

Hort.1.1

Placement: 1st sem

Hours of Instruction

Theory: 50 Hours.

Practical: 50 Hours.

Total: 100 Hours

Course Description

General – economic classification of insects; Bio-ecology and insect-pest management with reference to fruit, plantation, medicinal and aromatic crops; pest surveillance. Distribution, host range, bioecology, injury, integrated management of important insect pests affecting tropical, sub-tropical and temperate fruits, plantation, medicinal and aromatic crops like coconut, areca nut, oil palm, cashew, cacao, tea, coffee, cinchona,

### **Objectives**

At the end of the course, the student will be able to:

rubber, betel vine senna, neem, belladonna,

pyrethrum, costus, crotalaria, datura, dioscorea, mint, opium, Solanum khasianum

Storage insects – distribution, host range, bio-ecology, injury, integrated management of important insect pests attacking stored fruits, plantation, medicinal and aromatic crops

processed products. Insecticide residue problems in fruit, plantation, medicinal and aromatic crops and their maximum residue limits. General – economic classification of insects;

## Course Content

Unit	Hours	Content
<b>I</b>	<b>10</b>	Bio-ecology and insect-pest management with reference  fruit, plantation, medicinal and aromatic crops  pest surveillance.  Distribution, host range,  integrated management of important insect pests affecting tropica
<b>II</b>	<b>10</b>	□ oil palm, cashew, cacao, tea, coffee, cinchona, rubber, betel vine senna,  neem, belladonna, pyrethrum,  Storage insects – distribution,  integrated management of important insect pests attacking  medicinal and aromatic crops and their processed products.
<b>III</b>	<b>15</b>	□ Insecticide residue problems in fruit, plantation, □ medicinal and aromatic crops and their maximum residue limits □ Study of symptoms of damage, collection, identification

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

Cos	POs/ PSOs
COs 1	Pos-1 , PSOs-1 to 4
COs 2	Pos-1 , PSOs-1 to 6
Cos 3	Pos-1 , PSOs-1 to 4

Pl.Path.1.1

Placement: 1st sem

Hours of Instruction Theory: 50Hours.

Practical: 50 Hours.

Total: 100 Hours



## Course Description

Importance of plant diseases, scope and objectives of Plant Pathology. History of Plant Pathology with special reference to Indian work. Terms and concepts in Plant Pathology. Causes / factors affecting disease development: disease triangle and tetrahedron and classification of plant diseases. Important plant pathogenic organisms, different groups: fungi, bacteria, fastidious vesicular bacteria, phytoplasmas, spiroplasmas, viruses, viroids, algae, protozoa,

### General Objectives:

At the end of the course, the students will be able to:

phanerogamic parasites and nematodes with examples of diseases caused by them.

Diseases and symptoms due to abiotic causes.

Fungi: general characters, definition of fungus,

somatic structures, types of fungal thalli,

ungal tissues, modifications of thallus,

### Content Outline

Unit	Hours		Course Content
	Theory	Practical	
<b>I</b>	<b>10</b>		<input type="checkbox"/> reproduction (asexual and sexual). <input type="checkbox"/> Nomenclature, Binomial system of nomenclature, <input type="checkbox"/> Key to divisions, sub-divisions, orders and classes. <input type="checkbox"/> Bacteria and mollicutes:
<b>II</b>	<b>5</b>	<b>5</b>	General morphological characters. Basic methods of classification and reproduction.
<b>III</b>	<b>12</b>		<input type="checkbox"/> Acquaintance with various laboratory equipments and microscopy. <input type="checkbox"/> Collection and preservation of disease specimen. Preparation of media <input type="checkbox"/> isolation and Koch's postulates. <input type="checkbox"/> .General study of different structures of fungi.
<b>IV</b>	<b>10</b>	<b>5</b>	<input type="checkbox"/> .Study of symptoms of various plant diseases. <input type="checkbox"/> Study of representative fungal genera. Staining and identification of plant pathogenic bacteria. <input type="checkbox"/> Transmission of plant viruses <input type="checkbox"/> Study of fungicides and their formulations.

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

Cos	POs/ PSOs
COs 1	Pos-1 , PSOs-1 to 4
COs 2	Pos-1 , PSOs-1 to 3
Cos 3	Pos-1 , PSOs-1 to 4
COs 4	Pos-1 , PSOs-1 to 3

Practical 50  
Hours Total :100 Hours

Eng.1.1

Theory 50Hour

Placement : 1<sup>st</sup> sem

### Course Description

**Communication: Meaning and process of communication, verbal and nonverbal communication, individual and group presentations, impromptu presentation, public speaking; Group discussion. Organizing seminars and conferences, oral presentation skills, visual communication, body language, Interviews: kinds, Importance and process**  
**Objectives**

At the end of the course, students will be able to:

Structural and functional Grammar:

Introduction of Word Classes;

Introduction of Word Classes;

Uses of Tenses; Study of Voice; Study of Conjunctions and Prepositions; Sentence Patterns in English.

## Course Content

Unit	Hours	Content
I	10	Spoken English: Conversations of different situations in everyday life, the concept of stress, stress shift in words and sentences,  , silent letters in words and pronunciation of words with silent letters,  Comprehension skill: Reading and comprehension of general and technical articles.
II	10	□ Writing skill: Paragraph writing, précis writing,  , report writing, synopsis writing and proposal writing,  summarizing, abstracting, field diary and lab record, indexing,  footnote and bibliographic procedures, preparation of Curriculum Vitae and Job applications.  Structural Grammar: Exercises in word classes,
III	15	<b>Planning</b> identification and study of verbs in sentences, application of tenses and voice  identification and study of verbs in sentences, application of tenses and voice  structural grammar exercises, report writing, letter writing (different types of letters).
IV	15	<b>Organisation</b> <b>Spoken English: Conversations of everyday life, the concept of stress</b>  <b>stress shift. Silent letters in words, basic intonation patterns, preparing and address.</b>  <b>Listening and note taking, writing skills, oral presentation skills;</b>

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

Cos	POs/ PSOs
COs 1	Pos-1 , PSOs-1 to 7
COs 2	Pos-1 , PSOs-1 to 7

## Maths.1.1

Placement: 1<sup>st</sup>  
sem

Hours of Instruction  
Theory: 100 Hours.  
Practical: 0 Hours.  
Total: 100 Hours

### Course Description

**Differential calculus definition of function.**

### Objectives

At the end of the course the students will be able to:

1. Definition of function
2. Limit and continuity
3. Simple problem on limit
4. Simple problem on continuity

### Content Outline

Unit	Hours	Content
<b>I</b>	<b>20</b>	<input type="checkbox"/> Difference <input type="checkbox"/> Product and quotient <input type="checkbox"/> Two function <input type="checkbox"/> Simple problem based on it
<b>II</b>	<b>30</b>	<input type="checkbox"/> Maxima and minima <input type="checkbox"/> Function of form $y=f$ <input type="checkbox"/>

### Course Description

**Differential calculus definition of function.**

### Objectives

At the end of the course the students will be able to:

5. Definition of function

6. Limit and continuity
7. Simple problem on limit
8. Simple problem on continuity

### Content Outline

Unit	Hours	Content
<b>I</b>	<b>20</b>	<input type="checkbox"/> Difference <input type="checkbox"/> Product and quotient <input type="checkbox"/> Two function <input type="checkbox"/> Simple problem baesd on it
<b>II</b>	<b>30</b>	<input type="checkbox"/> Maxima and minima <input type="checkbox"/> Function of from $y=f$ <input type="checkbox"/>

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

Cos	POs/ PSOs
<b>COs 1</b>	Pos-1 , PSOs-1 to 7
<b>COs 2</b>	Pos-1 , PSOs-1 to 7
<b>Cos 3</b>	Pos-1 , PSOs-1 to 7

HVE.1.1

Placement – 1<sup>ST</sup> SEM

Hours of Instruction Theory: 100

Practical 0 hrs

Total 100 hrs

### Contents Outline

Unit	Hours	Content
<b>I</b>	<b>50</b>	<ul style="list-style-type: none"> <li>● Positive Spirit.Body,</li> <li>● Mind and Soul</li> <li>● Attachment and Detachment..</li> </ul>

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

Cos	POs/ PSOs
<b>COs 1</b>	Pos-1 , PSOs-1 to 7