



**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)

**MASTER OF PHYSIOTHERAPY (MPT)
(2 Year Degree Course)**



REGULATION & CURRICULUM

GOKUL PHYSIOTHERAPY COLLEGE

**Gokul Global University, Near Sujanpur Patia, State Highway 41,
Siddhpur-384151, Gujarat, India**



FACULTY OF PARAMEDICAL
GOKUL PHYSIOTHERAPY COLLEGE



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PROGRAMME OUT COME

(MPT)

After successful completion of the program, an individual will be able to:

PO1 KNOWLEDGE: Apply the concepts of Anatomy, physiology and kinesiology in professional Physiotherapy Practice and select various exercise therapies and Electrotherapeutic techniques for prevention and Treatment of various conditions

PO2 LEARNING SKILLS: Reflect knowledge on assessment planning, implementation in physiotherapy practice requiring for individual rehabilitation.

PO3 PROFESSIONAL ETHICS: Achieve moral principles and values that out to guide the professionalism, ethics, and integrity in their interaction with patients, colleagues, and the community.

PO4 ANALYTIC SKILLS: Critically evaluate research literature, apply evidence- based practices, and contribute to the advancement of physiotherapy through research.

PO5 SOCIAL AWARENESS: Demonstrate the impact of physiotherapy knowledge on the society by participate in interdisciplinary collaboration, effectively contributing to a patient-centered approach to healthcare.

PO6 LIFE LONG LEARNING: Demonstrate a commitment to professional growth and lifelong learning to promote absorption and adoption of new knowledge and tools.





PROGRAMME SPECIFIC OUTCOME

(MPT)

1. Work effectively in various inter professional collaborative settings like hospitals, Rehabilitation Centers, Special Schools, Educational Institutions, Health and Fitness Centers, Geriatric Centers, Ergonomic Consultant in Corporate Sectors, Private Consultation, Home Care Services, Industrial Sectors, Sports Management, Fitness Consultant

Promote health education and improved quality of life through the practice of the profession.





COURSE OF THE STUDIES

The course of study, subjects & teaching schedule for I & II-

year MPT course is shown separately in Table 1 & 2.

Table-1: MPT First Year (First 12 Months)

Sr.No	Subjects	Hours
1	Basic Sciences	
1A	Work & Exercise Physiology	80
1B	Electro Physiology	20
1C	Biomechanics	80
1D	Research Methodology & Biostatistics	70
1E	Educational Technology	40
1F	Ethics Management & Planning	40
2	Physical & Functional Diagnosis	130
3	Clinical	1080
4*	Seminars, Journal reviews, Fieldwork, Case presentations	60
5+	Dissertation & Microteaching	100
Total		1700

*Subjects not for university examination.

+ Subject examination will be at the end of second year.

Table-2: MPT Second Year (13-24 Months)

Sr.No	Subjects	Hours
1	Advanced Physiotherapeutics	160
2	Specialization Subject (Theory-150 Hours & Practical-150 Hours)	300
3	Clinical	1080
4	Dissertation & Microteaching	110
5*	Seminars, Journal reviews, Fieldwork, Case Presentations	50
Total		1700

Specialization:

1	Orthopaedics
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MPT FIRST YEAR

Sr.No	Subject Code	Subject	Total Marks
1	FPM110201	Theory:BasicSciences	100
2	FPM110202	Theory:Physical&FunctionalDiagnosis	100
3	FPM110205	Practical: Clinical Examination(Specialization minor case, non-Specializationminor case,Spotsand Viva)	150
Total			350

MPT SECOND YEAR

Sr. No	Subject Code	Subject	Total Marks
1	FPM110203	Theory:AdvancedPhysiotherapeutics	100
2	FPM110204	Theory:Specialization (Elective Paper)	100
3	FPM110206	Practical: Clinical Examination(SpecializationMajor Case&Viva)	150
		Practical:Dissertation&Microteaching	100
Total			450

PracticalExamination

1. ClinicalExamination(300Marks)

Allcaseshouldbeonpatientsandnotonmodels





MPT First Year:

Examination	Marks
Specialization minor case, Non Specialization minor case & Spots & Viva Voce	150 (50 Marks Each)

Day 1: Non Specialization (Minor) case, Specialization (Minor) case and Viva & spots

MPT Second Year

Examination	Marks
Specialization major case & viva	150

2. Dissertation & Microteaching (100 Marks)

Examination	Marks
Dissertation & Microteaching	100 (50 Marks Each)

Day 1: Specialization (Major) case and Viva

Day 2: Microteaching & Dissertation presentation





COURSE CONTENTS:

BASICSCIENCES (FPM110201)

Work&ExercisePhysiology:

1. SourcesofEnergy,EnergyTransferandEnergyExpenditure
atrestandvariousphysicalactivities.
2. Nutrition, Body consumption, caloric balance, food for
the
athlete,regulationoffoodintake,idealbodyweight,optiona
lsupplyofNutrients.
3. Metabolicconsideration—
VO₂,Lactatethreshold,RQ,energyexpenditureintermsof
calorimetry.
4. Acuteeffectsofexerciseon—
Cardiovascular,Respiratory,Metabolic(aerobic&anaerobi
c),Thermo-regulatory,Buffer(pH),Neuromuscular-
skeletal,Endocrine,Immunesystems.
5. Conditioning effects (adaptations) of exercise on —
Cardiovascular,Respiratory, Metabolic (Aerobic &





anaerobic), Thermo
regulatory, Buffer (pH) Neuromusculoskeletal (strength, power, endurance, speed, flexibility, agility, skill) Endocrine
, Immune systems.

6. Body composition
7. Exercise at different altitudes.
8. Exercise at various climatic conditions.
9. Special aids to performance and conditioning.
10. Exercise prescription for health and fitness with special emphasis on cardiovascular disease, Obesity and Diabetes.
11. Principles of health promotion for Growing Children, Healthy Adults, Pregnant/Lactating females, Elderly, Sports person.
12. Aerobic and Anaerobic Exercise Training.
13. Fatigue assessment, Types, and Relevance with Exercise Tolerance tests & Training and management.
14. Fitness Testing for:
 - Aerobic & anaerobic power and capacity
 - Muscular strength and power, flexibility.





15. Obesity–exerciseforweightreduction
16. Exerciseandaging
17. Clinicalexercisephysiology
18. Physiological&physicalwork.
19. Ergonomic aspects of work, energy transfer, oxygen intake and oxygen debt, cardio-res
Ergonomicaspectsofexerciseonoxygen,energyconsu
mption,METvalueofvariousexercisestandactivity.

Electrophysiology

1. CharacteristicsandcomponentsofElectrotherapeuti
cstimulation
systemsandcharacteristicandcomponentsofElectro
physiologicalassessmentdevices.
2. Electrical excitability of muscle and nerve and
composition of peripheral nerves.
3. A.Muscleplasticityinresponsetoelectricalstimulation.
B.InstrumentationforNeuromuscularelectricalstimulation(
NMES)
4. Neurobiologyofafferentpaintransmissionandcentr





- anervoussystemmechanismsofpain modulation.
5. Electricalstimulationandcirculation.
6. ClinicalElectrophysiologicaltesting.
7. Bio-electricity(R.M.P-ActionPotential)
8. Neurotransmitters.Synapse&Synaptictransmission.
9. Classification-musclefibers,nervefibers,motorunit.
10. Propagation of nerve impulse &
physiology ofmusclecontraction.
11. Reflex-classification&properties.
12. Sensations-Pathways&classification.
13. Typeofnerveinjury&Walleriandegeneration.

BioMechanics

1. Materialpropertiesofbonesandsofttissues.Appliedmech
anicsintheevaluationprocedures.
2. Internalandexternalforcesduringpostureandactivities.
3. Biomechanicsofrespiration,circulation,handfu
nction,peripheraljointsandspine.
4. (i)Gait:-NormalGaitanditsdeterminants-
Gaitparameterincludingtemporalandspatial
- KinematicandKineticofnormalhumangait





- Pathological gait

- Running, Stairclimbing

(ii) Gait Analysis:

- Overview of normal gait analysis: kinetic and kinematic analysis; Description of some of the most commonly used types of observational gait analysis; Advantages and disadvantages of kinematic qualitative and kinematic quantitative gait analyses.
- Gait Training, Pre ambulation programme, assistive devices and gait patterns, Recent advances in analysis of Gait.

5. Posture Control, Optimal Posture and their deviations in different planes.
6. in Ergonomics and its application in working environments.
7. Methods of kinetics and kinematics investigation, Anthropometric measurements.
8. Forces, equilibrium, levers: laws, mechanical advantage, materials & properties of bones and soft tissues.
9. Analysis of functional hazards related to environment/ industry





& clinical reasoning for the appropriate ergonomic advice.

10. Applied mechanics in the application of prosthesis, orthosis and mobility aids: materials, designs and bio-mechanical compatibility. Aids and appliances, adaptive functional devices to improve dysfunction.

Research Methodology and Biostatistics

1. Meaning of research, objectives, motivation & types of research.
2. Research process and criteria of good research.
3. Problems encountered by researchers in India & defining the research problem.
4. Research design & sampling design.
5. Measurement & scaling techniques. Method of data collection.
6. Processing and analysis of data. Sampling fundamentals.
7. Testing of hypothesis and Chi-square test.
8. Analysis of variance & co-variance.
9. Writing research for publication, Presenting a research report
10. Research Ethics, Plagiarism.
11. Role of computer in research.
12. Teaching methodology, Ethics and Administration





Ethics and Administration

1. Concept of Morality, Ethics and Legality.
2. Rules of Professional conduct, Medical and Moral Implications.
3. Communication skills, Client interest and Satisfaction.
4. Interdisciplinary Relation, Co-partnership, Mutual Respect, Confidence and Communication, Responsibilities of the Physiotherapists, Status of Physiotherapist in Health Care.
5. Role of Professional in Socio Personal and Socio Economical context.
6. Need of Council Act for regulation of Professional Practice.
7. Self-Regulatory role of Professional Association.
8. Rules of Professional Conduct.
9. Role of WCPT, Various branches and special interest group of WCPT.
10. Indian association of physiotherapists: rules, regulations, framework, aims, and objectives. Physiotherapy and law. Medical legal aspects of physiotherapy, liability, negligence,





malpractice, licensure, workman's compensation.

11. Administration & Marketing – personnel Policies –
Communication & Contract. Administration principles
based on Goal & Function at large Hospital /
Domiciliary set up /
Private Clinic/Academic Institution.
12. Methods of maintaining records – Budget planning.
13. Performance analysis – Physical structure, reporting
system, ManP Status, Functions, Quality & Quantity
of Services, Turnover – Cost benefit, Contribution.
14. Hospital as an organization – Functions and types of hospitals.
15. Roles of Physical therapist, Physical therapy
Director, Physiotherapy Supervisor, Physiotherapy assis-
tant, Physiotherapy aide.
16. Confidentiality of the Patient's status.
17. Legal responsibility.
18. Consumer protection law, health law, MCI.
19. Standards of practice for physiotherapists.
20. Liability and obligations in the case of medical legal action
21. Law of disability & discrimination

Education Technology





1. Education: aims, agencies, formal and informal education, Modern & contemporary philosophies of education, Role of educational philosophy and Current issues and trends in education
2. Concepts of teaching and learning
3. Principles and methods of teaching: Strategies & Planning of teaching, Organization, writing lesson plan, Audio visual aids, Teaching methods.
4. Curriculum committee, curriculum development for Physiotherapy, Types of curriculum, objectives, course objectives, Placing, Course placement, time allotment, Selection and organization of learning experience, Plans of courses, Rotational plan.
5. Measurement and evaluation.
6. Guidance and counseling.
7. Faculty development and development of personnel for PT services.





PHYSICAL&FUNCTIONALDIAGNOSIS (FPM110202)

1. ClinicalDecisionMaking-
PlanningEffectiveTreatment.Clinicaldecision-making
models, Team approach, Foundation for
clinicaldecision making.
2. Principlesandapplicationofinvestigativeandimagingtec
hniquesinPhysiotherapy
 - Bloodtest
 - ArterialBloodGas(ABG)analysis
 - PulmonaryFunctionTest(PFT)
 - Radiologicalexamination
 - ComputerizedTomography(CT)
 - MagneticResonanceImaging(MRI)
 - Ultrasonography(USG)
 - Electrocardiography(ECG)
 - Dopetesting
3. Evaluationassessmentandtreatmentplanningstrategiesfo
rMusculo-skeletal, neurological, cardiopulmonary,
sports specificand
otherphysiotherapyconditions:Principlesofevaluation,c





linical manifestations,
general and specific clinical examination.

A. Physiotherapy assessment of the following:

- Range of motion (ROM)
- Tone
- Muscular strength and endurance
- Flexibility
- Coordination: Equilibrium & Nonequilibrium test
- Sport specific skills
- Cardiac efficiency
- Sensory evaluation
- Functional Evaluation: Various scoring methods in functional assessment, Validity and reliability
- Fitness evaluation: Aerobic & Anaerobic
- Spasm
- Trigger Point
- Tender Point

B. Assessment of cognitive, perceptual, dysfunction and vestibular dysfunction.

4. Electro-Diagnosis:





- Characteristics and components of Electrotherapeutic stimulation systems and Electro physiological assessment devices.
- Instrumentation for neuromuscular electrical stimulation.
- Electrical properties of muscle and nerve.

Neurobiology of afferent pain transmission and central nervous system mechanisms of pain modulation.
- Electrical stimulation and circulation.
- Clinical Electro physiological testing:
Instruments,

Techniques and

Interpretations of Nerve
conduction
velocity including Repetitive Nerve
Stimulation
- Electromyography
- Bio-feedback technique.
- Later responses
- Concepts of electrophysiological studies in neuromuscular diseases as a diagnostic and therapeutic





peutictool.

- Evoked potentials–VEP,SSEP,MEP,BAEP

5. Psychological aspects of rehabilitation in disability

ability: Psychological tests.

6. Developmental Screening

(a) Factors Motor control assessment

(b) Motor control theories/mechanism

(c) Patterns of normal development

(d) specific procedures and tests used to assess motor control defects

7. Neurodevelopmental assessment

8. Anthropometry

a. Body measurements: Height, Weight, Circumference

b. Body Proportion: Body Mass Index (BMI), Waist to Hip Ratio (WHR)

c. Body Composition: Somatotyping

Methods of measurement: Water displacement, Skinfold thickness measurement, underwater weighing, Bioelectric Impedance

Analysis (BIA)

9. Differential diagnosis in Physiotherapy





10. Exercise ECG testing and monitoring.
11. Pulmonary function tests.
12. Physical disability evaluation and disability diagnosis.
13. Gait analysis and diagnosis.
14. Functional evaluation.
 - a. The concepts of health status impairment; functional limitations; disability and handicap; definition of functional activity and the purposes and components of the functional assessment; selection of activity and roles for an individual based on his or her capabilities and functional limitations.
 - b. Various forms of functional tests; physical function test and multidimensional functional assessment instrument, identification of instrument for testing function.
 - c. Various scoring methods used in functional assessment;
 - d. Reliability and validity of various functional assessments.
15. Evaluation of aging





ADVANCEDPHYSIOTHERAPEUTICS (FPM110203)

1. Pain:Neurobiology, Varioustheories,ModulationandPh
ysiotherapy Management including Electromagnetic
radiations,ultrasound,Electro acupunctureetc.
2. Maternalandchildcareingeneralphysiotherapy.
3. Appliedneuro-anatomyandneuro-physiotherapy.
4. Inhibitionandfacilitationtechniques.
5. Theoriesofmotorlearning.
6. Therapeuticbiofeedback&psychosomatictraining.
7. Combinationtherapy,shockwavetherapy,longwavetherapy.
8. Functionaltraining–
Respiratoryexercises,Trainingforfeeding,bladderand
boweltraining,coughingandcompression.
9. Artificialrespiration,inhalationtherapy&intensivecare
unitprocedures.
10. Yogasanas&Pranayama
 - Physiological&therapeuticprinciplesofyoga
 - Yogasanasforphysicalculture,relaxationandmeditation.





- Application of Yogasana in physical fitness, flexibility, cardiac rehabilitation and neuromotor learning.
 - Pranayama and respiratory physiology.
 - Kriyas and their physiological significance. Therapeutic application of yoga.
 - Yoga – a holistic approach.
11. Acupuncture: definition, principles, techniques, physiological effects, indications, contra- indications, dangers & integration of acupuncture with physiotherapy.
 12. Magnetotherapy.
 13. Naturopathy
 14. Dry Needling in various conditions
 15. History of manual therapy, overview of manual therapy approaches for all the joints
 16. Clinical Reasoning and differential clinical diagnosis and practical application of different approaches such as – Maitland, Kaltenborne, Cyriax, Mulligan and McKenzie.
 17. Soft tissue approaches: Myofascial Release techniques, Neural





tissuemobilization,MuscleEnergyTechniques(MET),Po
sition

practicalapplication.

18. Massage,mobilizationandmanipulations.
19. Ergonomics
20. Recentadvancesand
EvidencebasedPracticeinallphysiotherape
uticconditions.
21. Physiotherapyincommonconditionsofskin.
22. Physiotherapyincommonvasculardiseases.
23. Physiotherapyinnutritionaldeficiencydiseases.
24. Physiotherapyinrespiratorydisorders.
25. PhysiotherapyManagementofischemicheartdiseases.
26. Exerciseplanningandprescriptions.
27. Physiotherapyinpsychiatry.
28. ManagementofpaininneurologicalandMusculoskeletaldisorders.
29. Physiotherapymanagementinarthritisandalliedconditions.
30. Monitoringsystems,defibrillatorandArtificialrespirators.
31. Physiotherapy in post-operative management ofmetabolic,hormonal,ne
32. Preandpost-operativephysiotherapyintendontransfer.





33. Physiotherapy management following head injuries, in intensive care and neurosurgical procedures.
34. Physiotherapy following general surgery.
35. Physiotherapy following uro-surgery.
36. Physiotherapy following plastic surgery.
37. Physiotherapy management following selective and common cases of oncologic surgeries
38. Physiotherapy following obstetric and gynecological disorders.

PAPER: ELECTIVE SUBJECT

1. ORTHOPAEDICS (FPM110204)

Objectives:

This course shall enable the candidate to establish first contact physiotherapy for the management of Musculoskeletal disorders and pain, expertise in the skills of manual medicine, advanced electro-diagnostic/therapeutic skills and ability to function as a consultant in the team of health professionals concerned with sports sciences, hand rehabilitation, geriatric health and industrial setup.

The subspecialties are

- a. Advances in manual medicine and pain management





- b. Rehabilitation of hand
- c. Sports sciences
- d. Industrial health and ergonomics
- e. Geriatric health
- f. Applied bio-mechanics and bio-engineering

SYLLABUS

1. Anatomy & physiology of Musculoskeletal system.
2. Biomechanics of normal joints and Pathomechanics of fractures & deformed joints.
3. Introduction, principles and concepts of patient history, observation, examination, principles, scanning examination, examination of specific joints, functional assessment, specific tests, reflexes, cutaneous distribution, joint play movements, palpation and diagnostic imaging of spine & peripheral joints.
4. Functional assessment (Hand function, Gait, Posture, ADL, Occupational work)
5. Kinetic and kinematics analysis
6. Assessment & Management of locomotor impairments,





disabilities and Disability evaluation.

7. Clinical symptomatology, pathophysiology, pathomechanics & Physiotherapy management of musculoskeletal conditions.
8. Pre operative and post operative assessment & management following orthopaedic surgeries.
9. Analysis and classification of sports and sports injuries. Assessment & Management of sports injuries, sports fitness.
10. Rehabilitation of Hand & Paediatric musculoskeletal disorders.

Rheumatology: Rheumatoid arthritis, SLE, juvenile rheumatoid arthritis
11. Orthopaedic implants: designs, materials, indications, postoperative assessments and training.
12. Orthosis, Protheses, Mobility aids & adaptive devices in musculoskeletal problems : prescription, biomechanical compatibility, check out and training.
13. Physiotherapeutic approaches in musculoskeletal conditions:
 - Manual therapy approaches:
 - Soft tissue mobilizations and manipulations
 - Neural mobilizations, acupressure
 - Joint mobilizations and manipulation-





Peripheral joints and vertebral joints.

- Therapeutic exercises commonly used in musculoskeletal conditions including correction exercises and home exercises
- Pilates and core stability exercises
- Proprioceptive Neuromuscular Facilitation (PNF)
- Hydrotherapy in common musculoskeletal conditions
- Swiss ball exercises
- Taping, Wrapping and Bracing techniques.

14. Neurological complications of locomotor disorders, conservative Electro-diagnosis, electromyography and evoked potential studies. (specific disease oriented)
15. Industrial health and Ergonomics
16. Geriatric health
17. Recent advances in Orthopedic Physiotherapy.
18. Community based rehabilitation in musculoskeletal conditions
19. Evidence based physiotherapy management for different Musculoskeletal conditions.





COURSE OUTCOME:

CODE: FPM110201BASIC SCIENCES

CO1:Apply knowledge of basic sciences to analyze appropriate physiotherapeutic interventions, showcasing the ability to transfer theoretical knowledge to practical situations.

CO2: Critically evaluate research studies in the basic sciences of physiotherapy, identifying methodologies, interpreting results, and drawing conclusions to inform evidence-based practice.

CO3: Integrate information from various basic science disciplines to develop comprehensive treatment plans, illustrating the synthesis of knowledge for effective patient care.

CO4: Assess the efficacy of different physiotherapeutic approaches based on their understanding and proposing modifications for continuous improvement in patient care.

CODE: FPM110202PHYSICAL AND FUNCTIONAL DIAGNOSIS

CO1: Interpret diagnostic data, integrating information from multiple sources to identify underlying pathology, contributing factors, and potential treatment implications.

CO2: learn the assessment of various conditions through appropriate and valid tools.

CO3: Plan strategies for management of various musculoskeletal, neurological, cardio pulmonary problems and in various medical and surgical conditions.

CO4: Frame comprehensive management of physical ailments to develop independent professional knowledge and skill

CODE: FPM110203 ADVANCED THERAPEUTICS

CO1: Analyze the effectiveness of different advanced therapeutic modalities, considering patient responses, potential risks, and benefits.

CO2: Recall the underlying theories, principles, and evidence supporting their application in physiotherapy.

CO3: Evaluate the outcomes of advanced therapeutic interventions, considering both short-term and long-term effects on patient function and quality of life.

CO4: Apply advanced therapeutic interventions, selecting and implementing appropriate techniques based on a thorough assessment and individualized treatment goals.





CODE: FPM110204ORTHOPAEDICS

CO1: Assess, plan and interpret various musculoskeletal conditions and plan relevant advanced therapeutic methods.

CO2: Ability to update further academic developments and advanced clinical skills in the speciality discipline of Orthopaedics physiotherapy.

CO3: Ability to perform an appropriate subjective and physical examination, with development of suitable analytical skills to evaluate data obtained.

CO4: Understanding of the basic sciences and their integration with orthopaedic physiotherapy clinical practice.

FPM110201 BASIC SCIENCES								
CO	PO							
	PO1 KNOWLEDGE	PO2 LEARNING SKILLS	PO3 PROFESSIONAL ETHICS	PO4 ANALYTIC SKILLS	PO5 SOCIAL AWARENESS	PO6 LIFE LONG LEARNING	PSO1	PSO2
CO1	3	2	2	2	1	1	2	3
CO2	2	1	2	3	2	2	2	1
CO3	3	3	3	3	3	3	3	2
CO4	2	3	3	3	3	3	3	2

FPM110202 PHYSICAL AND FUNCTIONAL DIAGNOSIS								
CO	PO							
	PO1 KNOWLEDGE	PO2 LEARNING SKILLS	PO3 PROFESSIONAL ETHICS	PO4 ANALYTIC SKILLS	PO5 SOCIAL AWARENESS	PO6 LIFE LONG LEARNING	PSO1	PSO2
CO1	3	2	1	3	3	2	2	2
CO2	3	3	2	1	1	1	1	2
CO3	1	1	2	2	3	3	3	3
CO4	2	2	3	1	3	3	2	1





FPM110203 ADVANCED THERAPEUTICS								
CO	PO							
	PO1 KNOWLEDGE	PO2 LEARNING SKILLS	PO3 PROFESSIONAL ETHICS	PO4 ANALYTIC SKILLS	PO5 SOCIAL AWARENESS	PO6 LIFE LONG LEARNING	PSO1	PSO2
CO1	2	1	2	2	2	1	2	2
CO2	3	3	2	1	2	2	1	2
CO3	2	3	2	3	3	3	3	3
CO4	3	2	3	3	3	3	2	3

FPM110204 ORTHOPAEDICS								
CO	PO							
	PO1 KNOWLEDGE	PO2 LEARNING SKILLS	PO3 PROFESSIONAL ETHICS	PO4 ANALYTIC SKILLS	PO5 SOCIAL AWARENESS	PO6 LIFE LONG LEARNING	PSO1	PSO2
CO1	2	3	1	2	2	3	2	2
CO2	2	2	1	3	3	3	2	2
CO3	2	1	3	2	3	3	2	3
CO4	3	2	2	1	2	1	1	1

