

**JSSCOLLEGE OF PHYSIOTHERAPY
HAND BOOK**

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WHAT IS PHYSIOTHERAPY

Physiotherapy provides services to individuals and populations to develop, maintain and restore maximum movement and functional ability throughout the lifespan. This includes providing services in circumstances where movement and function are threatened by ageing, injury, pain, diseases, disorders, conditions or environmental factors. Functional movement is central to what it means to be healthy.

Physiotherapy is concerned with identifying and maximizing quality of life and movement potential within the spheres of promotion, prevention, treatment/intervention, habilitation and rehabilitation. This encompasses physical, psychological, emotional, and social wellbeing. Physiotherapy involves the interaction between the physical therapist, patients/clients, other health professionals, families, care givers and communities in a process where movement potential is assessed and goals are agreed upon, using knowledge and skills unique to physical therapists.

The physiotherapist's extensive knowledge of the body and its movement needs and potential is central to determining strategies for diagnosis and intervention. The practice settings will vary according to whether the physical therapy is concerned with health promotion, prevention, treatment/intervention, habilitation or rehabilitation.

SCOPE OF PHYSIOTHERAPY

The scope of physiotherapy practice is not limited to direct patient/client care, but also includes:

- Public health strategies
- Advocating for patients/clients and for health
- Supervising and delegating to others
- Leading
- Managing
- Teaching
- Research
- Developing and implementing health policy, locally, nationally and internationally

Physiotherapists operate as independent practitioners as well as members of health service provider teams, and are subject to the ethical principles of WCPT. They are able to act as first contact practitioners, and patients/clients may seek direct services without referral from another health care professional.

The education and clinical practice of physiotherapists will vary according to the social, economic, cultural and political contexts in which they practice. However, it is a single profession, and the first professional qualification, obtained in any country, represents the completion of a curriculum that qualifies the physiotherapist to use the professional title and to practice as an independent professional

OPPORTUNITIES IN PHYSIOTHERAPY

Physiotherapists are practitioners of choice for individuals with conditions that affect movements, functions, health and wellness. They will hold all privileges of private practice apart from these opportunities they are also required in the

1. Academic and research projects.
2. Government and NGO setups, hospitals and nursing home based services in urban area.
3. Community based rehabilitation.
4. Qualified physiotherapists can work as team therapist for sporting teams.
5. Special school for specific conditions.
6. Rehabilitation centers, geriatric centers, fitness clubs.
7. Domiciliary therapy services for clients.
8. Opportunities abroad in well-established institutions.
9. Ph.D programmes are available at various universities for people interested in the field of education and research.

QUALITIES REQUIRED TO BE A GOOD PHYSIOTHERAPIST

To be a good therapist are good communication skills, dedication and determination with sensitivity and tolerance as therapy also involves providing a lot of encouragement and counseling to the clients to motivate them to pull through difficult times. A good sense of humor will definitely go a long way in gaining confidence of the patients and develop a rapport with clients who are difficult to deal with due to various problems. Reliability, honesty and trustworthiness are prized qualities in any profession.

INTRODUCTION TO JSS COLLEGE OF PHYSIOTHERAPY

The Jagadguru Veerasimhaasana Peetha established in the 11th Century A.D. at Suttur by Adi Jagadguru Sri Shivarathreeshwara Shivayogi Mahaswamiji has a history dating back to 1000 years, according to the scriptures.

JSS College of Physiotherapy was established in the year 1999 by his blessings of the present pontiff, His Holiness Jagadguru Sri Shivarathreeshwara Deshikendra Mahaswamiji with an intention of creating competent physiotherapists with contemporary knowledge and innovative skills who can promote rehabilitation, health and fitness.

Four and half years Bachelors programme (BPT) in Physiotherapy which is approved by Government of Karnataka & is affiliated to RGUHS Bangalore and Indian Association of Physiotherapy (IAP)

INFRASTRUCTURE

CLASSROOMS: The institution has been provided with the state of art class rooms with sophisticated audio visual facility in each class to make teaching the learning experience more interactive and interesting.

LABS: The College has well equipped labs with advance equipment and tools for having a practical exposure along with hands on demonstration and handling equipment's. The students will gain the knowledge of how to use the physiotherapy equipment's then by imbibing confidence and improving their competency during their clinical practice.

The lab have following equipment and instruments; Swiss balls, UVR, Hand held dynamometer, Skin fold caliper, Semmes-Weinstein monofilaments, perineometer, PFT, ICU mannequin, EMG, NCV, treadmill, heart rate monitor, skin thermometer, bio feedback stabilizer, gait analysis by using HD camera.

CLINICAL FACILITIES

The college is attached to JSS hospital with well-established physiotherapy departments like OPD, in patient physiotherapy services, ICU physiotherapy, cardiorespiratory unit, neurophysiotherapy and pediatrics.

VISION

“JSS College of Physiotherapy is a committed to provide quality education at the undergraduate and postgraduate levels education with emphasis on practicing the profession with dignity and compassion in keeping with global excellence standards and human values”

MISSION

- To inculcate professional competence through education
- To define current needs to promote research
- To nurture relationships to foster development with societal engagement
- To encourage future leaders with a commitment to accountable patient care

SYLLABUS

COURSE OUTLINE

FIRST YEAR

- Anatomy
- Physiology
- Biochemistry
- Biomechanics
- Psychology
- Sociology

SECOND YEAR

- Pathology
- Microbiology
- Pharmacology
- Exercise therapy
- Electrotherapy.

THIRD YEAR

- General medicine
- General surgery
- Orthopedics and traumatology
- Physiotherapy in cardio respiratory conditions
- Physiotherapy in orthopedics and sports

FOURTH YEAR

- Neurology
- Neurosurgery
- Community medicine
- Pediatrics
- Physiotherapy in neurology and neurosurgery
- Community based rehabilitation
- Biostatics and research methodology

COURSE & LEARNING OUTCOME

FIRST YEAR BPT

HUMAN ANATOMY

OBJECTIVE

The broad goal of the teaching of undergraduate students in Anatomy aims at providing comprehensive knowledge of the gross anatomy, microscopic structures, development of human body and principles of genetics to provide a basis for understanding the clinical correlation of organs or structure involved and the skills to practice as a qualified Physiotherapist.

Learning outcomes

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

- Comprehend the normal disposition, inter-relationships, gross, functional and applied anatomy of the musculoskeletal system, locomotion, posture, gait and various organs in the body.
- Comprehend the basic structure and connections between the various parts of the central nervous system so as to analyze the integrative and regulative functions of the organs and systems. He/she should be able to locate the site of gross lesions according to the deficits encountered.
- Identify the microscopic structures of various tissues and organs in the human body and correlate the structure with the functions.

To understand the basic principles of embryology including genetic inheritance and stages involved in development of the organs and systems from the time of conceptions till birth.

From the integrated teaching of other basic sciences, students shall be able to comprehend the functions of the organs and systems in the body and thus interpret the anatomical basis of disease processes.

HUMAN PHYSIOLOGY

Objective

The broad goal of Physiology for Physiotherapy course is to comprehend the functions of human body in view of integration with other subjects, to be able to apply in terms holistic management of the patients as a qualified physiotherapist.

Learning outcomes

- 1) To know about the principles related to maintenance of body equilibrium and composition.
- 2) To understand the basic mechanism operating across the biological membrane.
- 3) To understand the functional mechanisms of each organ system
- 4) To understand interaction and integration of different organ systems in health and diseases.
- 5) To understand the influence of various environmental factors including personal stressors like exercise on the organ systems.

BIOCHEMISTRY

Objectives

The broad goal of the teaching of undergraduate students in Biochemistry aims at providing comprehensive knowledge of the Human Biochemistry to provide a basis for understanding the clinical correlation & diagnosis of biochemical disorders.

Learning outcome

At the end of the course, the student should be able to describe;

1. Structure, functions of cell in brief.
2. Normal functions of different components of food
3. Basal metabolic rate and factors affecting BMR, with special reference to obesity.
4. Nutritional aspects of carbohydrates, lipids, proteins and vitamins.
5. The basic and clinical aspects of enzymology and regulation of enzymatic activity.
6. Biochemical aspects of muscle contraction.

BIOMECHANICS

OBJECTIVES

At the end of the first year the students will be able to-

- Apply the principles of mechanics to the human body and be able to articulate the same.
- Apply mechanical principles to identify difficulty and faulty movements in a healthy individual.
- Apply biomechanical evaluation to common activities –static & dynamic.

Learning outcome

The main outcome of this course is to apply the principles of biomechanics in physiotherapy. Using these principles, the student will be able to identify the mechanical causes of several pathologies of the locomotor system

SOCIOLOGY

Learning outcomes

On completion of this subject, the students will be able to

- Demonstrate an understanding of the role of socio-cultural factors as determinants of health and behaviour in health and sickness.
- Relate to therapeutic situations in the practice of physiotherapy.
- Understand the role of family and community in the development of behaviours.
- Develop a holistic outlook toward the structure of society and community resources.
- Identify the subtle influence of culture in the development of human personality, the role of beliefs and values as determinants of individual and group behaviours.
- Understand the social and economical aspects of community that influence the health of the people.
- Learn to assess the social problems and participate in social planning.
- Identify social institutions and resources.

PSYCHOLOGY

Learning outcomes

On completion of this subject, the student will be able to

- Recognize and help with the psychological factors involved in disability, pain, disfigurement, unconscious patients, chronic illness, death, bereavement and medical/surgical patients/conditions.
- Perform psychosocial assessment of patients in various developmental stages.
- Understand the concept of stress and its relationship to health, sickness and one's profession.
- Find reasons for non-compliance among patients and improving compliance behaviour.

SECOND YEAR

PATHOLOGY & MICROBIOLOGY

Subject Description

This subject follows the basic subjects of Anatomy, Physiology and Biochemistry and it forms a vital link between preclinical subjects and clinical subjects. Pathology involves the study of causes and mechanisms of diseases. Microbiology involves the study of common organisms causing diseases including nosocomial infections and precautionary measures to protect one from acquiring infections. The knowledge and understanding of Microbiology & Pathology of diseases is essential to institute appropriate treatment or suggest preventive measures to the patient. Particular effort is made in this course to avoid burdening the student.

PATHOLOGY

Subject Outcomes

- The student must have a theoretical basis on the causes, mechanisms of development (pathogenesis), structural alterations of cells (morphologic changes), and the consequences of changes (clinical manifestations) of all the diseases or injuries.

Subject Title Duration Total Hours Theory Practical Lecture + Practical	: PATHOLOGY : 13 – 24 Months : 60 : 45 Hrs : 15 Hrs : 2 Hours / Week
Method of Assessment	: Written

MICROBIOLOGY

Subject Outcomes

- Students will be able to acquire, articulate, retain and apply specialized language and knowledge relevant to microbiology.
- The students must have a theoretical basis on the various types of microorganisms and the clinical aspects.

Subject Title Duration Total Hours Theory Practical Lecture + Practical	: MICROBIOLOGY : 13 – 24 Months : 60 : 45 Hrs : 15 Hrs : 2 Hours / Week
Method of Assessment	: Written

PHARMACOLOGY

Course Description

This course introduces the student to basic pharmacology of common drugs used, their importance in the overall treatment including Physiotherapy. The student after completing the course will be able to understand the general principles of drug action and the handling of drugs by the body. The student will be aware of the contribution of both drug and physiotherapy factors in the outcome of treatment.

Subject outcomes

- The student must be able to describe the basic scientific concepts and principles that serve as the foundation of the pharmacological sciences including pharmacokinetics, pharmacodynamics, drug metabolism, and drug-drug interactions.

- The student must have a theoretical knowledge on how the fundamental pharmacological properties can influence route of administration, drug action, drug efficacy and potency, drug levels in the body, potential for drug interactions, drug toxicity, adverse effects and the appropriate choice of drug for pharmacotherapy in a given patient.

PHARMACOLOGY

Subject Title Duration Total Hours Theory Lecture	: PHARMACOLOGY : 13 – 24 Months : 60 : 60 Hrs : 2 Hours / Week
Method of Assessment	: Written

EXERCISE THERAPY

Course Description

In this course, the students will learn the principles and effects of exercise as a therapeutic modality and will learn the techniques in the restoration of physical functions.

Subject outcomes

- The students must be able to apply the basic principles of physics to exercise therapy in human body.
- The students must be able to incorporate biomechanical principles in to exercise therapy.
- Students must be aware of how to apply the techniques in the restoration of physical functions.
- The students must be able to apply anatomy, physiology and biochemistry knowledge to plan and execute exercise regimens.
- The students must be clinically competent for independent decision making regarding the best therapeutic treatment.

EXERCISE THERAPY

Subject Title Duration Total Hours Theory Practical	:EXERCISE THERAPY : 13 – 24 Months : 240 : 90 Hrs : 150 Hrs
Total Hours / Week Lecture Practicals Seminars / Tutorials	: 8 Hrs : 2 Hours / Week : 5 Hours / Week : 1 Hour / Week
Method of Assessment	: Written, Oral, Practical

ELECTROTHERAPY

Course Description.

In this course the student will learn the Principles, Techniques, Effects, Indication, Contra-Indication and the dosage parameter for various indications of electro therapeutic modalities in the restoration of physical function. The objective of this course is that after 240hrs of lectures, demonstration, practical and clinics the student will be able to list the indications, contra indications, dosages of electro therapy modalities, demonstrates the different techniques, and describe their effects on various conditions.

Outcomes of the subject

- The student must be able to identify the best possible electro modalities for given condition.
- The student must be able to use the optimum method, dosage for the modality.
- Students must be able to use the modalities safely and by following the guidelines.
- The student must be able to read and understand current recommendations.
- Students must be technically and clinically competent for independent decision making regarding the best modality for treatment.

ELECTROTHERAPY

Subject Title Duration Total Hours Theory Practical	:ELECTROTHERAPY : 13 – 24 Months : 240 : 90 Hrs : 150 Hrs
Total Hours / Week Lecture Practicals Seminars / Tutorials	: 8 Hrs : 2 Hours / Week : 5 Hours / Week : 1 Hour / Week
Method of Assessment	: Written, Oral, Practical

FIRST AID AND CPR

Course Description

At the completion of this course the student of First Aid and CPR must be able to identify and manage situation of common emergencies.

Outcome of the subject

- The student must be able to provide first aid care to a person.
- The student must be able to perform CPR according to the correct procedure.

Subject Title Duration Total Hours Theory Practical Lecture + Practical	: FIRST AID & CPR : 13 – 24 Months : 30 : 10Hours : 20Hours : 1 Hour / Week
Method of Assessment	: Written, Oral, Practical

THIRD YEAR

GENERAL MEDICINE

Subject Description

This subject follows the basic science subjects to provide the knowledge about relevant aspects of general medicine. The student will have a general understanding of the diseases the therapist would encounter in their practice. The objective of this course is that after 60 hrs of lectures and discussion the student will be able to list the etiology, pathology, clinical features and treatment methods for various medical conditions.

Subject Title	: GENERAL MEDICINE
Duration	: 25 – 36 Months
Total Hours	: 60
Theory / Lecture	: 2 Hours / Week

Subject outcome:

- At the end the year student must be able have theoretical knowledge about the conditions and the medicine prescribed to the patients.
- Students should be able to know the drugs regarding the conditions.
- Students must be able to know the duration of the drug action, course, adverse effects of the particular condition.
- Must be able to decide the therapy according to the indications, contraindications of the drugs.

GENERAL SURGERY

Subject Description

This subject follows the basic science subjects to provide the knowledge about relevant aspects of general surgery. The student will have a general understanding of the surgical conditions the therapist would encounter in their practice. The objective of this course is that after 60 hrs of lectures and discussion the student will be able to list the indications for surgery, etiology, clinical features and surgical methods for various conditions.

Subject Title	: GENERAL SURGERY
Duration	: 25 – 36 Months
Total Hours	: 60
Theory / Lecture	: 2 Hours / Week

Subject outcome:

- At the end of the year students must be able to have theoretical knowledge about the surgeries and its procedure in detail.
- Must be able to identify the incisions.
- Must be able to decide the appropriate therapy including the indications, contraindications and the precautions to be taken.

ORTHOPEDICS & TRAUMATOLOGY

Subject Description

This subject follows the basic science subjects to provide the knowledge about Orthopedic conditions the therapist would encounter in their practice. The objective of this course is that after 60 hrs of lectures and discussion the student will be able to demonstrate an understanding of orthopedic conditions causing disability, list the etiology, clinical features and methods of investigations and management.

Subject Title	: ORTHOPEDICS & TRAUMATOLOGY
Duration	: 25 – 36 Months
Total Hours	: 60
Theory / Lecture	: 2 Hours / Week

Objectives of the subject:

At the end of the third BPT students will be able to incorporate knowledge gained in the basic sciences in conjunction with foundation to:

- Perform and interpret clinical examination and apply findings to plan management of post fracture and trauma rehab, sports injuries, deformities, bone disorders and elective orthopedic surgeries, spinal pain and amputation.
- Identify disabilities due to musculoskeletal dysfunctions, plan and set treatment goals and apply their skills gained in exercise therapy and electrotherapy in these clinical situations to restore musculoskeletal functions.

Subject outcome:

- Able to assess a patient.
- Technically and clinically component for decision making.
- Awareness of the condition.
- Apply the principles of basic science and evidence based practice.
- Provide care to the patient in efficiently and cost effective way.
- Identify the influence of biological, psychological, economic and spiritual factors on patients.

MUSCULOSKELETAL & SPORTS

Subject Description

The subject serves to integrate the knowledge gained by the students in orthopedics and traumatology with skills to apply these in clinical situations of dysfunction and musculoskeletal pathology. The objective of the course is that after the specified hours of lectures and demonstrations the student will be able to identify disabilities due to musculoskeletal dysfunction, plan and set treatment goals and apply the skills gained in exercise therapy and electrotherapy in these clinical situations to restore musculoskeletal function.

Subject Title	: MUSCULOSKELETAL AND SPORTS
Duration	PHYSIOTHERAPY
Total Hours	: 25 – 36 Months
Theory	: 150
Practical	: 90 Hours
	: 60 Hours
Total Hours / Week	: 5 Hrs
Lecture	: 3 Hours / Week
Practicals	: 2 Hours / Week

Subject outcomes:

- At the end of the year the students must be able to identify the surgical procedures regarding fracture reduction, joint replacement and other surgeries regarding orthopedics.
- Must be able to identify the splints, orthosis, type of traction, etc.
- Must be able to treat according to the protocol followed by the institution or according to the evidence based practice.

CARDIO-RESPIRATORY & GENERAL PHYSIOTHERAPY

Subject Description

The subject is designed to provide knowledge in assessing and planning physiotherapy interventions for various General, Medical and Surgical conditions. The student must be able to reassess the patient as necessary, to monitor the patient in regard to treatment, to monitor the patient's vital sign, and to provide appropriate interventions to the patient.

Subject Title	: CARDIO-RESPIRATORY & GENERAL PHYSIOTHERAPY
Duration	: 25 – 36 Months
Total Hours	: 150
Theory	: 90 Hours
Practical	: 60 Hours
Total Hours / Week	: 5 Hrs
Lecture	: 3 Hours / Week
Practicals	: 2 Hours / Week

Subject outcome:

- At the end of the year the students should understand the theoretical knowledge of each conditions regarding cardio and pulmonology.
- Must be able to assess the patient and generate a hypothesis.
- Apply the principles of basic science and evidence based practice.
- Provide care to the patient efficiently in a cost effective way.
- Identify the influence of the biological, sociological, psychological and spiritual factors on patient.

ALLIED THERAPIES

Subject Description

The Subject is designed to provide an overview in the basics of Occupational Therapy, Speech and Language Therapy and Alternative Medicine. This will help the student to make decisions during the course of patient evaluation to refer to the concerned specialist for a required therapy.

Subject Title	: ALLIED THERAPIES
Duration	: 25 - 36 Months
Total Hours	: 60
Theory	: 60
Lecture	: 2 Hour / week

Subject outcome:

- Student must be able know the importance of speech therapy, occupational therapy and alternative medicine like yoga, etc. and their effects on the patients.

FOURTH YEAR BPT

Course NEUROLOGY & NEUROSURGERY	
Course Objective	Learning Outcome
<p>1. Disorders of function in the context of Pathophysiology, Anatomy in Neurology and Cortical Mapping. [1 hour]</p> <p>2. Classification of neurological involvement depending on level of lesion.[1 hour]</p> <p>3. Neurological assessment: Principles of clinical diagnosis, higher mental function, assessment of brain & spinal cord function, evaluation of cranial nerves and evaluation of autonomic nervous system. [3 hours]</p> <p>4. Investigations: principles, methods, views, normal/abnormal values/features, types of following investigative procedures- skull x-ray, CT, MRI, evoked potentials, lumbar puncture, CSF examination, EMG, NCV. [3 hours]</p> <p>5. Neuro-ophthalmology: Assessment of visual function – acuity, field, colour vision, Pupillary reflex, accommodation reflex, abnormalities of optic disc, disorders of optic nerve, tract, radiation, occipital pole, disorders of higher visual processing, disorders of pupil, disorders of eye movements, central disorders of eye movement. [1 hour]</p> <p>6. Deafness, vertigo, and imbalance: Physiology of hearing, disorders of hearing, examination & investigations of hearing, tests of vestibular function, vertigo, peripheral vestibular disorders, central vestibular vertigo. [2 hours]</p> <p>7. Lower cranial nerve paralysis – Etiology, clinical features, investigations, and management of following disorders - lesions in trigeminal nerve, trigeminal neuralgia, trigeminal sensory neuropathy, lesions in facial nerve, facial palsy, bell’s palsy, hemi facial spasm, Glossopharangeal neuralgia, lesions of Vagus nerve, lesions of spinal</p>	<p>On completion of this module the student should be able to:</p> <p>1. Demonstrate a systematic and coherent knowledge of the anatomical and physiological functioning of the central nervous system , and critically appraise the implications of any alteration in the normal control points with respect to pathology.</p> <p>2. Discuss and analyses structure-function relationships of the central nervous system.</p> <p>3. Describe the mechanism of</p>

<p>accessory nerve, lesions of hypoglossal nerve. Dysphagia – swallowing mechanisms, causes of dysphagia, symptoms, examination, and management of dysphagia. [3 hours]</p> <p>8. Cerebro-vascular diseases: Define stroke, TIA, RIA, stroke in evolution, multi infarct dementia and Lacunar infarct. Classification of stroke – Ischemic, hemorrhagic, venous infarcts. Risk factors, cause of ischemic stroke, causes of hemorrhagic stroke. Classification of hemorrhagic stroke, classification of stroke based on symptoms, stroke syndrome, investigations, differential diagnosis, medical and surgical management. [4 hours]</p> <p>9. Head injury: Etiology, classification, clinical signs & symptoms, investigations, differential diagnosis, medical management, surgical management and complications. [3 hours]</p> <p>10. Higher cortical, neuro psychological and neurobehavioral disorders: Causes of blackouts, physiological nature of Epilepsy, classification, clinical features, investigations, medical& surgical management of following disorders – Non-epileptic attacks of childhood, Epilepsy in childhood, Seizers, and Epilepsy syndromes in adult. Classification and clinical features of Dyssomnias, Parasomnias, Dementia, Obsessive-compulsive disorders. Neural basis of consciousness, causes & investigations of Coma, criteria for diagnosis of Brain death. Etiology, pathophysiology, classification, clinical signs & symptoms, investigations, differential diagnosis, management of Perceptual disorders and Speech disorders. [3 hours]</p> <p>11. Movement disorders: Definition, etiology, risk factors, pathophysiology, classification, clinical signs & symptoms, investigations, differential diagnosis, medical management, surgical management and complications of following disorders – Parkinson’s disease, Dystonia, Chorea, Ballism, Athedosis, Tics, Myoclonus and Wilson’s disease. [3 hours]</p> <p>12. Cerebellar and coordination disorders: Etiology, pathophysiology, classification, clinical signs & symptoms, investigations, differential diagnosis, management of Congenital ataxia, Friedreich’s ataxia, Ataxia</p>	<p>voluntary movements, recognize the important centers involved and explain the effects of their lesions.</p>
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talangiectasia, Metabolic ataxia, Hereditary cerebellar ataxia, Tabes dorsalis and Syphilis. [3 hours]

13. Spinal cord disorders: Functions of tracts, definition, etiology, risk factors, pathophysiology, classification, clinical signs & symptoms, investigations, differential diagnosis, medical management, surgical management and complications of following disorders – Spinal cord injury, Compression by IVD prolapse, Spinal epidural abscess, Transverse myelitis, Viral myelitis, Syringomyelia, Spina bifida, Sub acute combined degeneration of the cord, Hereditary spastic paraplegia, Radiation myelopathy, Progressive encephalomyelitis, Conus medullaris syndrome, Bladder & bowel dysfunction, and Sarcoidosis. [3 hours]

14. Brain tumors and spinal tumors: Classification, clinical features, investigations, medical and surgical management. [3 hours]

15. Infections of brain and spinal cord: Etiology, pathophysiology, classification, clinical signs & symptoms, investigations, differential diagnosis, medical management, surgical management and complications of following disorders – Meningitis, Encephalitis, Poliomyelitis and Post-polio syndrome. Complications of systemic infections on nervous system – Septic encephalopathy, AIDS, Rheumatic fever, Brucellosis, Tetanus, and Pertussis. [2 hours]

16. Motor neuron diseases: - Etiology, pathophysiology, classification, clinical signs & symptoms, investigations, differential diagnosis, medical management, and complications of following disorders - Amyotrophic lateral sclerosis, Spinal muscular atrophy, Hereditary bulbar palsy, Neuromyotonia and Post-irradiation lumbosacral polyradiculopathy. [2 hours]

17. Multiple sclerosis - Etiology, pathophysiology, classification, clinical signs & symptoms, investigations, differential diagnosis, medical management, and complications. [2 hours]

18. Disorders of neuromuscular junction – Etiology, classification, signs & symptoms, investigations, management, of following disorders Myasthenia gravis, Eaton-Lambert syndrome, and Botulism. [2 hours]

19. Muscle diseases: Classification, investigations, imaging methods,

<p>Muscle biopsy, management of muscle diseases, genetic counselling. Classification, etiology, signs & symptoms of following disorders – Muscular dystrophy, Myotonic dystrophy, myopathy, Non-dystrophic myotonia. [3 hours]</p> <p>20. Polyneuropathy – Classification of Polyneuropathies, Hereditary motor sensory neuropathy, Hereditary sensory and Autonomic neuropathies, Amyloid neuropathy, Acute idiopathic Polyneuropathies. Guillain-Barre syndrome – Causes, clinical features, management of GBS, Chronic Idiopathic Polyneuropathies, diagnosis of polyneuropathy, nerve biopsy. [2 hours]</p> <p>21. Focal peripheral neuropathy: Clinical diagnosis of focal neuropathy, neurotmesis, Axonotmesis, Neuropraxia. Etiology, risk factors, classification, neurological signs & symptoms, investigations, management, of following disorders – RSD, Nerve tumors, Brachial plexus palsy, Thoracic outlet syndrome, Lumbosacral plexus lesions, Phrenic & Intercostals nerve lesions, Median nerve palsy, Ulnar nerve palsy, Radial nerve palsy, Musculocutaneous nerve palsy, Anterior & Posterior interosseous nerve palsy, Axillary nerve palsy, Long thoracic nerve palsy, Suprascapular nerve palsy, Sciatic nerve palsy, Tibial nerve palsy, Common peroneal nerve palsy, Femoral nerve palsy, Obturator nerve palsy, Pudental nerve palsy. [3 hours]</p> <p>22. Paediatric neurology: Neural development, Etiology, pathophysiology, classification, clinical signs & symptoms, investigations, differential diagnosis, medical management, surgical management and complications of following disorders - Cerebral palsy, Hydrocephalus, Arnold-chiari malformation, Basilar impression, Klippel-Feil syndrome, Achondroplasia, Cerebral malformations, Autism, Dandy walker syndrome and Down’s syndrome. [3 hours]</p> <p>23. Toxic, metabolic and environmental disorders: Etiology, risk factors, classification, neurological signs & symptoms, investigations, management, of following disorders – Encephalopathy, Alcohol toxicity, Recreational drug abuse, Toxic gases & Asphyxia, Therapeutic & diagnostic agent toxicity, Metal toxicity, Pesticide poisoning,</p>	
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<p>Environmental & physical insults, Pant & Fungal poisoning, Animal poisons, & Complications of organ transplantation. [3 hours]</p> <p>24. Introduction, Indications and Complications of following Neuro surgeries: Craniotomy, Cranioplasty, Stereotactic surgery, Deep brain stimulation, Burr-hole, Shunting, Laminectomy, Hemilaminectomy, Rhizotomy, Microvascular decompression surgery, Endarterectomy, Embolization, Pituitary surgery, Ablative surgery - Thalamotomy and Pallidotomy, Coiling of aneurysm, Clipping of aneurysm, and Neural implantation. [2 hours]</p>	
Course : NEURO-PHYSIOTHERAPY	
Course Objective	Learning Outcome
<p>1. Neurological Assessment: Required materials for examination, Chief complaints, History taking – Present, Past, medical, familial, personal histories, Observation, Palpation, Higher mental function – Consciousness, Orientation, Wakefulness, memory, Speech, Reading, Language, Writing, Calculations, Perception, Left right confusion, Reasoning, and Judgment, Motor Examination – Muscle power, Muscle tone, Spasticity, Flaccidity, Reflexes – Developmental reflexes, deep tendon reflexes, Superficial reflexes, Sensory examination – Superficial, Deep and Cortical sensations, Special tests – Romberg’s, Kernig’s sign, Brudenzki sign, Tinels’s sign, Slum test, Lehermitte’s sign, Bells Phenomenon, Gower’s sign, Sun set sign, Battle’s sign, Glabellar tap sign, etc, Balance examination, coordination examination, Gait analysis – Kinetics & Kinematics (Quantitative & Qualitative analysis), Functional Analysis, Assessment tools & Scales – Modified Ashworth scale, Berg balance scale, FIM, Barthel index, Glasgow coma scale, Mini mental state examination, Rancho Los Amigos Scale for Head injury, APGAR score, ASIA scale, Reflex Grading. Differential diagnosis. [10 hours]</p>	<p>At the end of the module student should be able to</p> <p>Knowledge : Understand the procedure of examination/ Evaluation in Paediatric conditions, Physiotherapy perceptive, normal and abnormal test results, can list the equipments required for the particular examination/ evaluation.</p> <p>Cognitive: can explain the normal and abnormal posture, tone, gait and cry of Paediatric condition.can be able to discuss the Differential diagnosis.</p> <p>Psychomotor : can demonstrate the Evaluation on model and apply the same on patient, which guides him to proper Physiotherapy goal setting and treatment plan</p>

2. Neuro physiological Techniques – Concepts, Principles, Techniques, Effects of following Neurophysiological techniques: NDT, PNF, Vojta therapy, Rood’s Sensory motor Approach, Sensory Integration Approach, Brunnstorm movement therapy, Motor relearning program, Contemporary task oriented approach, Muscle re-education approach and Constraint induced movement therapy. [14 hours]

3. Paediatric Neurology: Paediatric Examination, Developmental milestones, developmental reflexes, Neuro developmental screening tests. Evaluation & Management - History, Observation, Palpation, Milestone Examination, developmental reflex Examination, Higher mental function, Cranial nerve examination, Motor & Sensory examination, Reflex testing, differential Diagnosis, Balance & Coordination examination, Gait analysis, Functional analysis, List of Problems & Complications, short & Long Term goals, Management of systemic complications, Management of Mechanical Complications, Use of various Neurophysiological approaches & Modalities in Risk babies, Minimum brain damage, Developmental disorders, Cerebral palsy, Autism, Down’s Syndrome, Hydrocephalus, Chorea, Spina bifida, and syringomyelia. [14 hours]

4. Evaluation and Management of Brain and Spinal Cord Disorders : History, Observation, Palpation, Higher mental function, Cranial nerve examination, Motor & Sensory examination, Reflex testing, differential Diagnosis, Balance & Coordination examination, Gait analysis, Functional analysis, List of Problems & Complications, short & Long Term goals, Management of systemic complications, Management of Mechanical Complications, Use of various Neurophysiological approaches & Modalities in Cerebro vascular Accident, Meningitis, Encephalitis, Head Injury,

Brain Tumors, Perceptual disorders, Amyotrophic lateral sclerosis, and Multiple sclerosis. [10 hours]

5. Evaluation and Management of Cerebellar, Spinal Cord and Muscle Disorders : History, Observation, Palpation, Motor & Sensory examination, Reflex testing, differential Diagnosis, Balance & Coordination examination, Gait analysis, Functional analysis, List of Problems & Complications, short & Long Term goals, Management of systemic complications, Management of Mechanical Complications, Use of various Neurophysiological approaches& Modalities in Ataxia, Sensory Ataxia, Parkinson's disease, Muscular dystrophy (DMD), Myasthenia Gravis, Eaton-Lambert Syndrome, Spinal tumors, Spinal cord injury, Transverse myelitis, Bladder & Bowel Dysfunction, Spinal muscular atrophies, Poliomyelitis, Post Polio Syndrome [10 hours]

6. Evaluation and Management of Peripheral Nerve Injuries and Disorders : History, Observation, Palpation, Motor & Sensory examination, Reflex testing, differential Diagnosis, Balance & Coordination examination, Gait analysis, Functional analysis, List of Problems & Complications, short & Long Term goals, Management of systemic complications, Management of Mechanical Complications, Use of various Neurophysiological approaches& Modalities in Hereditary motor sensory neuropathy, Guillain-Barre syndrome, Brachial plexus palsy, Thoracic outlet syndrome, Lumbosacral plexus lesions, Phrenic & intercostals nerve lesions, Median nerve palsy, Ulnar nerve palsy, Radial nerve palsy, Musculocutaneous nerve palsy, Anterior & Posterior interosseous nerve palsy, Axillary nerve palsy, Long thoracic nerve palsy, Suprascapular nerve palsy, sciatic nerve palsy, Tibial nerve palsy, Common peroneal nerve palsy, Femoral nerve palsy, Obturator nerve palsy, and Pudental nerve palsy. [10 hours]

7. Assessment and management of Neurological gaits: Quantitative and Qualitative (Kinetic & Kinematics) analysis, List of Problems, short & Long Term goals, Management of following Neurological Gaits - Hemiplegic gait, Parkinson gait, High step gait, Hyperkinetic gait, Hypokinetic gait, Waddling gait, Scissoring gait, Spastic gait, Choreaform Gait, Diplegic Gait, and Myopathic Gait [10 hours]

8. Pre and Post surgical assessment and treatment following conditions - Spinal disc herniation, Spinal stenosis, Spinal cord trauma, Head trauma, Brain tumors, Tumors of the spine, Spinal cord and peripheral nerves, Cerebral aneurysms, Subarachnoid hemorrhages, epilepsy, Parkinson's disease, Chorea, Hemiballism, Psychiatric disorders, Malformations of the nervous system, Carotid artery stenosis , Arteriovenous malformations, and Spina bifida [9 hours]

9. Applied Yoga in Neurological conditions [3 Hours]

Practical: 60 Hours.

Practical shall be conducted for all the relevant topics discussed in theory in the following forms:

Bedside case presentations and case discussions

Lab sessions consisting of evaluation and assessment methods on student models, treatment techniques and practice sessions.

Course : COMMUNITY MEDICINE	
Course Objective	Learning Outcome
<p>programme, National sanitation and water supply programme, Minimum needs programme [4 hours]</p> <p>6. Demography and Family Planning: Demographic cycle, Fertility, Family planning-objectives of national family planning programme and family planning methods, A general idea of advantage and disadvantages of the methods. [3 hours]</p> <p>7. Preventive Medicine in Obstetrics, Paediatrics and Geriatrics: MCH problems, Antenatal, Intranatal and post natal care, Care of children, Child health problems, Rights of child and National policy for children, MCH services and indicators of MCH care, Social welfare programmes for women and children, Preventive medicine and geriatrics. [6 hours]</p> <p>8. Nutrition and Health: Classification of foods, Nutritional profiles of principal foods, Nutritional problems in public health, Community nutrition programmes [4 hours]</p> <p>9. Environment and Health: Components of environment, Water and air pollution and public health: Pollution control, Disposal of waste, Medical entomology. [3 hours]</p> <p>10. Hospital waste management: Sources of hospital waste, Health hazards, Waste management [3 hours]</p> <p>11. Disaster Management: Natural and man made disasters, Disaster impact and response, Relief phase, Epidemiologic surveillance and disease control, Nutrition, Rehabilitation, Disaster preparedness [4 hours]</p> <p>12. Occupational Health: Occupational environment, Occupational hazards, Occupational diseases, Prevention of occupational diseases. Social security and other measures for the protection from occupational hazard accidents and diseases. Details of compensation acts. [4 hours]</p>	<p style="text-align: center;">This subject follows the basic science subjects to provide the knowledge about conditions the therapist would encounter in their practice in the community. The objective of this course is that after 60 hrs of lectures and discussion the</p>

13. Mental Health: Characteristics of a mentally healthy person, Types of mental illness, Causes of mental ill health, Prevention, Mental health services, Alcohol and drug dependence. Emphasis on community aspects of mental health. Role of Physiotherapist in mental health problems such as mental retardation. [3 hours]

14. Health Education: Concepts, aims and objectives, Approaches to health education, Models of health education, Contents of health education, Principles of health education, Practice of health education [3 hours]

Course : COMMUNITY PHYSIOTHERAPY	
Course Objective	Learning Outcome
<p>1. Rehabilitation: Definition, Types [1 hour]</p> <p>2. Community: Definition of Community, Multiplicity of Communities, The Community based approach, Community Entry strategies, CBR and Community development, Community initiated versus community oriented programme, Community participation and mobilization [5 hours]</p> <p>3. Introduction to Community Based Rehabilitation: Definition, Historical review, Concept of CBR, Need for CBR, Difference between Institution based and Community based Rehabilitation, Objectives of CBR, Scope of CBR, Members of CBR team, Models of CBR [6 hours]</p> <p>4. Principles of Community based Rehabilitation. W.H.O.'s policies-about rural health care- concept of primary /tertiary health centers-district hospitals etc-Role of P.T.-Principles of a team work of Medical person/P.T./O.T. audiologist/speech therapist /P.&O./vocational guide in C.B.R. of physically handicapped person , Agencies involved in rehabilitation of physical handicapped - Legislation for physically handicapped. Concept of multipurpose health worker. Role of family members in the rehabilitation of a physically handicapped. [10 hours]</p> <p>5. Planning and management of CBR Programmes, CBR Programmed planning and management, Ownership and Governance, Decentralization and CBR, Management of CBR, Programmed sustainability, Communication and Coordination, Community participation, mobilization and awareness, CBR programme influence on promoting and developing public policies [6 hours]</p>	<p>At the end of the year, the student will be able to</p> <ul style="list-style-type: none"> • Apply knowledge of basic sciences and humanities in conjunction with physiotherapeutic skills and reasoning based knowledge and apply these to evaluate, goal set and plan and execute treatment in a tailored manner to an individual with • Chronic disabling conditions • Chronic static conditions • Chronic conditions characterised by exacerbations and remissions • Conditions characterised by changing needs and deficits • Apply knowledge attained above in senior citizens to enhance health and decrease the deleterious effects of aging

<p>6. Disability: Definition of Impairment, Handicap and Disability, Difference between impairment, handicap and disability, Causes of disability, Types of disability, Prevention of disability, Disability in developed countries, Disability in developing countries. Disability Surveys: Demography. Screening: Early detection of disabilities and developmental disorders, Prevention of disabilities- Types and levels [6 hours]</p> <p>7. Disability Evaluation: Introduction, What, Why and How to evaluate, Quantitative versus Qualitative data, Uses of evaluation findings [5 hours]</p> <p>8. Role of Government in CBR: Laws, Policies, Programmes, Human Rights Policy, Present rehabilitation services, Legal aspects of rehabilitation [5 hours]</p> <p>9. Role of Social work in CBR: Definition of social work, Methods of social work, History of social work, Role of social worker in rehabilitation [4 hours]</p> <p>10. Role of voluntary Organizations in CBR: Charitable Organizations, Voluntary health agencies – National level and International NGO’s, Multilateral and Bilateral agencies. International Health Organizations: WHO, UNICEF, UNDP, UNFPA, FAO, ILO, World bank, USAID, SIDA, DANIDA, Rockfeller, Ford foundation, CARE, RED CROSS. [4 hours]</p> <p>11. National District Level Rehabilitation Programme: Primary rehabilitation unit, Regional training center, District rehabilitation center, Primary Health center, Village rehabilitation worker, Anganwadi worker [5 hours]</p> <p>12. Role of Physiotherapy in CBR: Screening for disabilities, Prescribing exercise programme, Prescribing and devising low cost locally available assistive aids, Modifications physical and architectural barriers for</p>	
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disabled, Disability prevention, Strategies to improve ADL, Rehabilitation programmes for various neuromusculoskeletal and cardiothoracic disabilities.

[5 hours]

13. Screening and rehabilitation of paediatric disorders in the community: Early detection of high risk babies, Maternal nutrition and education, Rehabilitation of Cerebral Palsy, Polio, Downs Syndrome, Muscular Dystrophies etc., Prevention and rehabilitation of mental retardation and Behavioural disorders, Immunization programmes, Early intervention in high risk babies, Genetic counselling [5 hours]

14. Extension services and mobile units: Introduction, Need, Camp approach [2 hours]

15. Vocational training in rehabilitation: Introduction, Need, Vocational evaluation, Vocational rehabilitation services [2 hours]

Course : RESEARCH METHODOLOGY AND BIostatISTICS	
Course Objective	Learning Outcome
<p style="text-align: center;">RESEARCH</p> <p>1. Introduction to Research methodology: Meaning of research, objectives of research, Motivation in research, Types of research & research approaches, Research methods vs methodology, Criteria for good research, Problems encountered by researchers in India.</p> <p>2. Research problem: Statement of research problem., Statement of purpose and objectives of research problem, Necessity of defining the problem</p> <p>3. Research design: Meaning of research design, Need for research design, Features for good design, Different research designs, Basic principles of research design</p> <p>4. Sampling Design: Criteria for selecting sampling procedure, Implications for sample design, steps in sampling design, characteristics of good sample design, Different types of sample design</p> <p>5. Measurement & scaling techniques: Measurement in research- Measurement scales, sources of error in measurement, Technique of developing measurement tools, Meaning of scaling, its classification., Important scaling techniques.</p> <p>6. Methods of data collection: collection of primary data, collection data through questionnaires & schedules, Difference between questionnaires & schedules.</p> <p>7. Sampling fundamentals, need for sampling & some fundamental definitions, Important sampling distributions</p>	<p>This course will introduce to the student the basic research methodology, statistical concepts: methods of statistical analysis: and interpretation of data.</p>

8. Processing & analysis of data: Processing operations, problems in processing , Types of analysis, Statistics in research, Measures of central tendency, Dispersion, Asymmetry, relationship.

9. Testing of hypothesis: What is hypothesis? Basic concepts concerning testing of hypothesis, Procedure of hypothesis testing, measuring the power of hypothesis test, Tests of hypothesis, limitations of the tests of hypothesis

10. Computer technology: Introduction to Computers, computer application in research, computers & researcher.

BIOSTATISTICS

1. Introduction: Meaning, definition, characteristics of statistics., Importance of the study of statistics, Branches of statistics, Statistics and health science including physiotherapy, Parameters and Estimates, Descriptive and inferential statistics, Variables and their types, Measurement scales.
2. Tabulation of Data: Basic principles of graphical representation, Types of diagrams – histograms, frequency polygons, smooth frequency polygon, cumulative frequency curve., Normal probability curve.
3. Measure of Central Tendency: Need for measures of central Tendency, Definition and calculation of mean – ungrouped and grouped, Meaning, interpretation and calculation of median ungrouped and grouped., Meaning and calculation of mode, Comparison of the mean, median and mode, Guidelines for the use of various measures of central tendency.
4. Probability and Standard Distributions: Meaning of probability of standard distribution, The binominal distribution, The normal distribution, Divergence from normality – skew ness, kurtosis.
5. Sampling techniques: Need for sampling - Criteria for good samples, Application of sampling in community, Procedures of sampling and sampling designs errors, Sampling variation and tests of significance.
6. Analysis of variance & covariance: Analysis of variance (ANOVA), what is ANOVA? Basic principle of ANOVA, ANOVA technique, Analysis of Co variance(ANACOVA)

CURRICULUM DELIVERY

Lesson plan

The purpose of the lesson plan is to guide the students on resources that are recommended to master the syllabus of each subject. The document will consist of the detailed topic wise plan, time table assignment list for the entire year, recommended books, sample questions and practical manual.

Each subject syllabus is divided into modules and each module is divided into units. Every unit is provided with prescribed book, reference book and supplementary material. It is intended to help the students to refer the appropriate book. Each subject lesson plan is followed by sample questions, it helps students to understand the format of questions in university examinations

Practical manual/ Clinical competency book

It contains practical components which are required in assessment, interpretation and physiotherapy intervention. Students must have this practical manual during practical classes and perform the procedure in presence of subject teacher. They must get each skill signed by the subject teacher. This is a pre requisite before using these skills on the patients. A companion book “Students Clinical Assessment Log Book” (SCALB) will be used during clinical rotation to assess clinical competency

COURSE OF STUDY – SUBJECTS AND HOUR DISTRIBUTION

FIRST YEAR BPT

First year BPT [Duration 0 -12 months]					
Sl No	Subject	Teaching hours			
		Weekly class hours	Total	Theory	Practical
<i>Main Subjects: For University Examination</i>					
1	Anatomy	8	240	150	90
2	Physiology	7	210	150	60
3	Biochemistry	2	60	60	
4	Biomechanics	6	180	90	90
5	Psychology	2	60	60	
6	Sociology	2	60	60	
<i>Subsidiary subjects: Not for University Examination</i>					
7	English	2	60	60	
8	Kannada	2	60	60	
9	Basic nursing	1	30	20	10
10	Orientation to physiotherapy	1	30	30	
11	Integrated seminars/ PBL sessions	3	90	90	
	Total	36	1080	830	250

Second year BPT

Second year BPT [Duration 13-24 months]						
Sl No	Subject	Teaching hours				
		Weekly class hours	Total	Theory	Practical	Clinics
<i>Main Subjects: For University Examination</i>						
1	Pathology	2	60	45	15	
2	Microbiology	2	60	45	15	
3	Pharmacology	2	60	60		
4	Exercise therapy	9	270	120	150	
5	Electrotherapy	8	240	90	150	
<i>Subsidiary subjects: Not for University Examination</i>						
6	Ethics and admin	1	30	30		
7	First aid and CPR	1	30	10	20	
8	Constitution of India	1	30	30		
9	Introduction to treatment	1	30	30		
10	Clinical observation posting	9	270			270
	Total	34	1080	460	350	270

Third year BPT

Third year BPT [Duration 25-36 months]						
Sl No	Subject	Teaching hours				
		Weekly class hours	Total	Theory	Practical	Clinics
<i>Main Subjects: For University Examination</i>						
1	General medicine	2	60	60		
2	General Surgery	2	60	60		
3	Orthopedics and traumatology	2	60	60		
4	Musculoskeletal and sports Physiotherapy	5	150	90	60	
5	Cardiorespiratory and general physiotherapy	5	150	90	60	
6	Supervised Rotator clinical training	18	540			540
<i>Subsidiary subjects: Not for University Examination</i>						
7	Allied therapeutics	2	60	60		
	Total	36	1080	420	120	540

CLINICAL POSTINGS

- In third year BPT, students will be posted in the following clinical postings
 1. Orthopedics OP/IP
 2. General medicine and general Surgery
 3. MICU, CTVS ICU, CCU, ICCU, SICU & RICU.

Students will be posted in rotation in the following areas/wards. The students will be clinically trained to provide physiotherapy care for the patients under supervision. They will be trained on bed side approach, patient assessment, performing special tests, identifying indications for treatment, ruling out contraindications, decision on treatment parameters, dosage and use relevant outcome measures, formulating the SMART goals and plans under supervision. Evidence based practice will be part of training.

Final year BPT

Final year BPT [Duration 37-48 months]						
Sl No	Subject	Teaching hours				
		Weekly class hours	Total	Theory	Practical	Clinics
<i>Main Subjects: For University Examination</i>						
1	Neurology and neurosurgery	2	60	60		
2	Community medicine	2	60	60		
3	Neuro-Physiotherapy	5	150	90	60	
4	Community physiotherapy	5	150	90	60	
5	Research methodology	2	60	60		
6	Supervised rotatory clinical training	18	540			540
<i>Subsidiary subjects: Not for University Examination</i>						
7	Evidence based practice	1	30	20		
8	Project	1	30		20	
	Total	37	1080	400	140	540

- In final year BPT, students will be posted in the following clinical postings
 1. Neurology, Neurosurgery And Neuro ICU
 2. PICU and NICU
 3. Community-PHC
 4. Geriatric old age homes and special schools
 5. Industrial visits-Ergonomics.

Students will be posted in rotation in the following areas/wards. The students will be clinically trained to provide physiotherapy care for the patients under supervision. They will be trained on bed side approach, patient assessment, performing special tests, identifying indications for treatment, ruling out contraindications, decision on treatment parameters, dosage and use relevant outcome measures, formulating the SMART goals and plans under supervision. Evidence based practice will be part of training.

NOTE:

- Students should wear Aprons and to have necessary clinical equipment's during the clinical postings which has to be purchased by the student (college may arrange for the same)
- Clinical competency book should be maintained on regular basis with sign from concerned unit in-charge
- Study materials, books, laptops, sports personal equipment's, clinical kit has to be purchased by the students, college will provide guidance to procure the required.

PROJECT

As a part of completion of final year, the student should do a project which will be a clinical assignment on given topic or condition. This will give the student a background on research methods and recent advances.

The project will be done under the guidance of the staff assigned for individual student, should be submitted within the stipulated time period.

RULES AND REGULATIONS OF RGUHS

RULES

- Students are strictly expected to follow the disciplinary code of the college.
- Cell phones are prohibited in college and hospital campus.
- Students are attributed to be attired in a suitable manner deemed fit for the profession.
- Ragging, eve teasing and violation of human rights will be considered as criminal offence and suitable action will be taken.
- Smoking or use of alcoholic beverages inside the college and hospital campus during clinical training is strictly prohibited.

REGULATIONS

The course is of four and half years duration, follows annual examination system and includes six months internship.

STUDENT CODE OF CONDUCT

While attending college during regular hours including library hours or during school-sponsored activities, students are expected to follow these basic rules, procedures, and expectations:

1. Your first priority is to learn. Avoid distractions that interfere with or are counter-intuitive to that mission.
2. Be in the assigned place with appropriate materials as listed in the lesson plan, ready to work at the designated time that class begins.
3. Never intentionally harm another student.
4. Use appropriate and respectful language and behavior at all times while maintaining friendly and courteous behavior to all.
5. Be polite and respectful to everyone including students, teachers, administrators, support staff, patients, care givers and visitors.
6. Follow individual teacher instructions, class rules, and expectations at all times.
7. Do not rag. If you see someone being ragged, intervene by telling them to stop or immediately report it to college authorities as per guidelines.
8. Do not become a distraction for others. Give every other student the opportunity to maximize their potential. Encourage your fellow students. Never belittle them. Work together as a team..
9. Attendance and participation in class are an essential part of the educational process. Regular attendance is necessary for success. Furthermore, it allows students to achieve the maximum possible benefits from their educational experience. All students are expected to be present and prompt. Attendance is the responsibility of both parents and students.
10. Comport themselves in a manner befitting a healthcare professional
11. Respect institutional and national property, identity and symbols
12. Must not engage in any activity that is against human values and rights.
13. Be respectful, compassionate and use polite language with patients, clients and vulnerable sections of society
14. Participate in all college activities
15. Participate and follow all national policies

FEE STRUCTURE – For the batch 2018-2019

Management quota

YEAR	FEES-Rs
First year	95,500
Second year	99,700
Third year	1,10,100
Final year	1,27,000
Total	4,32,300

Government quota

YEAR	FEES
First year	49,500
Second year	48,700
Third year	53,700
Final year	68,700
Total	2,20,600

EXAM FEES

Exams fees for the students appearing for university examination will be notified to students by their respective class coordinators prior to the exam, also will be displayed on the notice board of the respective class rooms

Students have to clear their tuition fees of the year and submit their library dues prior to their university exams, if failed to do so will not be permitted to take up the university exams.

Exam fee to be paid as per number of exam paper attending and not according to number of subject

For further details see annexure.

ATTENDANCE

Each candidate is required to attend at least 80 percent of the total classes conducted in a year in all prescribed subjects for that year, separately in theory and practical/ clinical training to appear for university examination. The minimum requirement of eighty percentages is mandatory to appear for the annual RGUHS exam which includes all types of leaves including the sick leave / medical leave, participation for sports, NSS and other co-curricular activities .

INTERNAL ASSESSMENT

It shall be based on periodic tests assignments, clinical presentations etc. Regular periodic examinations will be conducted throughout the course. There will be a minimum of 3 sessional examinations every year. The average of the two examination marks will be reduced to 20 and 10 for Theory and Practical/Clinical respectively, and sent to the University before the University examination as per notification. Proper record which forms the basis of the Internal Assessment will be maintained for all students and is available for scrutiny. The marks of periodical tests will be displayed on the student notice board by respective class in charge/s. A Candidate must obtain a 35% mark in theory and practical separately in internal assessment to be eligible to write the university examination.

SCHEDULE OF EXAMINATION

There will be two examinations in a year, to be conducted as per notification issued by the University from time to time. First, Second, Third and Final Examinations of BPT course shall be held at the end of 1st year, 2nd year, 3rd year and 4th year respectively. The examination for main subjects shall be conducted by the University and for subsidiary subjects by the respective college.

SCHEME OF EXAMINATION

BPT 1								
Sl no	Subject	Theory				Practical		Total
		Written		Viva voce	Internal assessment	Practical	Internal assessment	
		Time	Maximum marks	Maximum marks	Maximum marks	Maximum marks	Maximum marks	
1	Anatomy	3 hrs	100	30	20	40	10	200
2	Physiology	3 hrs	100	30	20	40	10	200
3	Biochemistry	3 hrs	80	-	20	-	-	100
4	Biomechanics	3 hrs	100	30	20	40	10	200
5	Section A Psychology	3 hrs	40	-	10	-	-	100
	Section B Sociology		40	-	10	-	-	

BPT 2								
Sl no	Subject	Theory				Practical		Total
		Written		Viva voce	Internal assessment	Practical	Internal assessment	
		Time	Maximum marks	Maximum marks	Maximum marks	Maximum marks	Maximum marks	
1	Section A Pathology	3 hrs	40	-	10	-	-	100
	Section B Microbiology		40	-	10	-	-	
2	Pharmacology	3 hrs	80		20			100
3	Exercise therapy	3 hrs	100	30	20	40	10	200
4	Electrotherapy	3 hrs	100	30	20	40	10	200

BPT 3								
Sl no	Subject	Theory				Practical		Total
		Written		Viva voce	Internal assessment	Practical	Internal assessment	
		Time	Maximum marks	Maximum marks	Maximum marks	Maximum marks	Maximum marks	
1	General medicine	3hrs	80	-	20	-	-	100
2	General Surgery	3hrs	80	-	20	-	-	100
3	Orthopedics & Traumatology	3hrs	80	-	20	-	-	100
4	Orthopedics & Sports Physiotherapy	3hrs	100	30	20	40	10	200
5	Cardio respiratory & General Physiotherapy	3hrs	100	30	20	40	10	200

BPT 4								
Sl no	Subject	Theory				Practical		Total
		Written		Viva voce	Internal assessment	Practical	Internal assessment	
		Time	Maximum marks	Maximum marks	Maximum marks	Maximum marks	Maximum marks	
1	Neurology & Neurosurgery	3hrs	80	-	20	-	-	100
2	Community medicine	3hrs	80	-	20	-	-	100
3	Neuro-Physiotherapy	3hrs	100	30	20	40	10	200
4	Community based rehabilitation	3hrs	100	30	20	40	10	200
5	Research Methodology and biostatistics	3hrs	80	-	20	-	-	100

CRITERIA FOR PASS

Main Subjects

- A candidate is declared to have passed university examination in a subject, if she/he secures 50 % of the marks in theory and 50 % in practical separately.
- For computation of 50 % marks in theory, the marks scored in the internal assessment [theory] shall be added to the University conducted written and viva voce examination. For a pass in practical, the marks scored in University conducted practical examination and internal assessment [practical] shall be added together.

Subsidiary Subjects

- For a pass in Subsidiary subjects, a candidate shall secure 35% of the total marks prescribed for the subject.
- The marks obtained should be sent to the University 15 days prior to the commencement of University examination.

DECLARATION OF CLASS

- a. A candidate having appeared in all the subjects in the same examination and passed that examination in the first attempt and secures 75% of marks or more of grand total marks prescribed will be declared to have passed the examination with Distinction.
- b. A candidate having appeared in all subjects in the same examination and passed that examination in the first attempt and secures 65% of marks or more but less than 75% of grand total marks prescribed will be declared to have passed the examination in First Class.
- c. A candidate having appeared in all the subjects in the same examination and passed that examination in the first attempt and secures 50% of marks or more but less than 65% of grand total marks prescribed will be declared to have passed the examination in Second Class.
- d. A candidate passing the university examination in more than one attempt shall be placed in Pass class irrespective of the percentage of marks secured by him/her in the examination.
- e. The marks obtained by a candidate in the subsidiary subjects shall not be considered for award of Class or Rank.

INTERNSHIP

- There shall be six months (118 working days) of Internship after the final year examination for candidates declared to have passed the examination in all the subjects.
- Internship can be done in a teaching hospital recognized by the University limited to within Karnataka only.
- No candidate shall be awarded degree certificate without successfully completing six months of Internship.
- The Internship will be rotatory and covers clinical branches concerned with Physiotherapy such as Orthopedics, Cardiothoracic including ICU, Neurology, Neurosurgery Pediatrics, General Medicine, General Surgery, Obstetrics and Gynaecology both inpatient and outpatient services.

The 6 months of rotational posting must be covered in the following pattern.

- | | |
|---|---------|
| <input type="checkbox"/> Physiotherapy OPD (including Pediatrics and OBG wards) | 1 month |
| <input type="checkbox"/> Orthopedic wards | 1 month |
| <input type="checkbox"/> General Medicine wards (including MICU and CCU) | 1 month |
| <input type="checkbox"/> General Surgery wards (including CTS wards, CTS-ICU and Burns) | 1 month |
| <input type="checkbox"/> Neurology and Neurosurgery wards (including Neuro ICU) | 1 month |
| <input type="checkbox"/> Community Base Rehab | 1 month |

PROJECT (OPTIONAL)

During internship Students can do a project, under the guidance of In charge Faculty, which should be submitted to the Principal/Head of the Program before the completion of Internship program

SUCCESSFUL COMPLETION

The student should maintain a competency book. On completion of each posting, the same will be certified by the faculty in charge of the posting for both attendance as well as work done. On completion of all six postings and the duly completed Competency book, it should be submitted to the Principal/Head of program to be considered as having successfully completed the internship program.

BPT PROGRAM OBJECTIVES

On successful completion of the four and half year BPT program an individual is expected to be able to independently work in the capacity of a physiotherapist in a hospital, community rehabilitation center, clinic or primary health center. In this capacity the individual will be able to work in a health care team, independently assess and plan and undertake physiotherapy management, document and communicate effectively.

JSS MAHAVIDYATAPEETHA RULES

- JSS Mahavidyapeetha organizes Jatra celebrations, in suttur (Yearly once), and other function around the year, where in students has to participate actively.

STUDENTS BENEFITS

HEALTH FACILITY

The services of OPD at the JSS Hospital and Dental hospital are available for students. A group insurance is provided to all the students.

CULTURAL ACTIVITIES, SPORTS & NSS

JSS College of Physiotherapy encourages its students in cultural and sports activities to promote and enhance creativity and leadership skills.

The students who represent for RGUHS will get scholarship for the year from RGUHS, with additional benefits according to RGUHS rules and regulations (TA, DA)

JSS College of Physiotherapy will provide services for Sports events conducted by Mysuru University and its Constituent colleges in and around mysuru

Yearly NSS camp will be organized from JSS College of Physiotherapy, Interested students will be deputed for state and national special camps.

Regular CBR camps will be held from the JSS Hospital Physiotherapy Unit in Mysuru

HOSTEL

College offers Hostel facility for female students, which is at a walkable distance from College of Physiotherapy.

Students should be in hostel before 6pm, if they need permission after 6pm it has to be taken from the UG coordinator/ Class coordinator and Hostel warden.

Hostel leave permission procedure: Students who avail leave from hostel should submit requisition letter 3 days prior from college office to get signature, class coordinator and hostel in charge.

LIBRARY

The library has a good collection of books, periodicals and journals related to physiotherapy and other sciences and these are being continuously added to update the library. The digital library has been set up with access to helinet; a consortium of e books and e journals provided by the RGUHS Bangalore.

Library has a provision of Xerox / Photostat where students can copy the reference books by filling the requisition copy to the librarian and paying the specified amount in the library. Preferably photo copies can be obtained from 5pm to 7 pm on prior request.

Time: 8am-8pm (Mon-Sat) and 11am-6pm (Sunday)

JSS COLLEGE OF PHYSIOTHERAPY ALUMINUS ASSOCIATION

After the successful completion of course it is mandatory for outgoing students so register them self with alumnus association and to take part actively in alumnus association activity.

WEBSITE

For further details visit

- jssphysiotherapy.edu.in (JSS College of Physiotherapy Web Site)
- JSS College of Physiotherapy mail id: jsscpt@jssonline.org
- JSS Mahavidyapeetha Mail Id: jssonline.org.

GRADUATE ATTRIBUTES- BPT

Interviewing and observational skills:

Students must gather visual, auditory and tactile information through observation, communication and clinical examination. Gathering information also includes reading medical records or other written documentation, use of assessment tools and measures, and communicating with members of the health care team, patients and their family.

Communication

Students must be able to observe and describe affect, activity, posture(s) and nonverbal communication. Students must be able to communicate effectively and sensitively with clients, families and members of the health care team

Critical thinking and reasoning

Students must demonstrate the cognitive skills and memory necessary to measure, calculate, and reason in order to analyze, integrate and synthesize information. Students also need to be able to demonstrate the ability to accurately evaluate their own performance to identify learning gaps and to further direct their learning including seeking assistance.

Psychomotor/Physical

Students must demonstrate sufficient motor function to safely perform initial and ongoing assessments and interventions, including collecting data and assessment tests and measures. Motor function should be sufficient to allow completion of tasks in a timely manner, to ensure client safety. Students must be able to use common diagnostic aids or instruments either directly or in an adaptive form (e.g., sphygmomanometer, stethoscope, goniometer) and provide the necessary physical guidance for exercise and/or functional movement by instruction or demonstration. In addition, students must be able to physically participate in all learning experiences of the educational program (e.g., for clinical skills laboratory work).

Professional Standards: Students must demonstrate sensitivity, compassion, integrity, and concern for others. Students must be respectful of individuality and diversity, demonstrate interpersonal skills to engage and motivate clients/patients and families. Students must be aware of their own limitations and seek help to provide optimum care.

*****Students with Disabilities**

JSS College of Physiotherapy is committed to ensuring that students are afforded an academic environment that is dedicated to the advancement of learning and that is based on the principles of equitable access and individual dignity; as such, they are committed to facilitating the integration of students with disabilities. Each student with a disability is entitled to reasonable accommodation that will assist her/him to meet the program standards and academic requirements. Reasonable accommodation cannot compromise the essential requirements of a program or client/patient safety and well-being. The appropriateness of accommodation will be assessed on a case by case basis.

ANNEXURE

1. Annual Fee

Year	Amount Rs	Due dates
FIRST YEAR BPT	<p align="center">2018-19 batch</p> <p align="center">Total Fee: Management category: Rs 95,500 Government quota: Rs49,500</p>	<ul style="list-style-type: none"> <input type="checkbox"/> October 3rd, 2017 <input type="checkbox"/> Due dates are applicable even who opt for educational loan. The amount will be refunded on receiving loan amount from bank. <input type="checkbox"/>
2nd BPT	<p align="center">-</p> <p align="center">Total Fees: Management category Rs.99,700 Government quota:Rs.48,700</p> <p>Repeater fee payment should be made along with annual fee irrespective of the results which you achieved</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Without fine before October 28th <input type="checkbox"/> Due dates are applicable even who opt for educational loan. The amount will be refunded on receiving loan amount from bank. <input type="checkbox"/> Candidates failing to pay before due date will be charged fine of 400/-per month. <input type="checkbox"/> Exceptional candidates may request for fee payment as an installment basis during the time of admission. <input type="checkbox"/> An additional fee of Rs. 1000 will be Charged from those who opt for installment option. <input type="checkbox"/> All dues must be cleared before the end of academic year. <input type="checkbox"/> Hall ticket will not be issued in case if there are any dues.
3rd BPT	<p>Total fee Management category: Rs 1,10,110 Government quota: Rs 53,700 Repeater fee payment should be made along with annual fee irrespective of the results which you achieved</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Without fine before October 28th <input type="checkbox"/> Due dates are applicable even who opt for educational loan. The amount will be refunded on receiving loan amount from

		<ul style="list-style-type: none"> bank. <input type="checkbox"/> Candidates failing to pay before due date will be charged fine of 400/-per month. <input type="checkbox"/> Exceptional candidates may request for fee payment as an installment basis during the time of admission. <input type="checkbox"/> The due dates for fees installments are October 28th <input type="checkbox"/> An additional fee of Rs. 1000 will be Charged from those who opt for installment option. <input type="checkbox"/> All dues must be cleared before the end of academic year. <input type="checkbox"/> Hall ticket will not be issued in case if there are any dues.
<p>4th BPT</p>	<p>Total fee: Management Category :Rs 1,27,000 Government Quota :Rs 68,700 Repeater fee payment should be made immediately after results</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Without fine before October 28th <input type="checkbox"/> Due dates are applicable even who opt for educational loan. The amount will be refunded on receiving loan amount from bank. <input type="checkbox"/> Candidates failing to pay before due date will be charged fine of 400/-per month. <input type="checkbox"/> Exceptional candidates may request for fee payment as an installment basis during the time of admission. <input type="checkbox"/> The due dates for fees installments are October 28th <input type="checkbox"/> An additional fee of Rs. 1000 will be Charged from those who opt for installment option. <input type="checkbox"/> All dues must be cleared before the end of academic year.

		<input type="checkbox"/> Hall ticket will not be issued in case if there are any dues.
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STUDENT SUPPORT

Name of student:

Name of parent:

Year of admission:

Contact details:

Roll no;

Name of faculty mentor:

Year :

Contact details:

Mentoring log

Date	Remarks	Signature	
		Mentor	student

STUDENT SUPPORT

ANTI – RAGGING AFFIDAVIT FROM STUDENT

ANNEXURE I
AFFIDAVIT BY THE STUDENT

I,.....(full name of student with admission/registration/enrolment number) S/o D/o Mr./Mrs./Ms....., having

been admitted to(name of the institution), have received a copy of the UGC Regulations

on Curbing the Menace of Ragging in Higher Educational Institutions, 2009, (hereinafter called the “Regulations”), carefully read and fully understood the provisions contained in the said Regulations.

2). I have, in particular, perused clause 3 of the Regulations and am aware as to what constitutes ragging.

3). I have also, in particular, perused clause 7 and clause 9.1 of the Regulations and am fully aware of the penal and administrative action that is liable to be taken against me in case. I am found guilty of or abetting ragging, actively or passively, or being part of a conspiracy to promote ragging.

4). I hereby solemnly aver and undertake that

a) I will not indulge in any behaviour or act that may be constituted as ragging under clause 3 of the Regulations.

b) I will not participate in or abet or propagate through any act of commission or omission that may be constituted as ragging under clause 3 of the Regulations.

5). I hereby affirm that, if found guilty of ragging, I am liable for punishment according to clause 9.1 of the Regulations, without prejudice to any other criminal action that may be taken against me under any penal law or any law for the time being in force.

6). I hereby declare that I have not been expelled or debarred from admission in any institution in the country on account of being found guilty of, abetting or being part of a conspiracy to promote, ragging; and further affirm that, in case the declaration is found to be untrue, I am aware that my admission is liable to be cancelled.

Declared thisday ofmonth of.....year.

Signature of deponent

Name:

Address:

Telephone/Mobile No.:

ANTI RAGGING AFFIDAVIT FROM PARENTS

ANNEXURE II

AFFIDAVIT BY PARENT/GUARDIAN

I, Mr./Mrs./Ms.....(full name of parent/guardian)father/mother/guardian of(full name of student with admission/registration/enrolment number....., having been admitted to(name of the institution)....., have received a copy of the UGC Regulations on Curbing the Menace of Ragging in Higher Educational Institutions, 2009, (hereinafter called the “Regulations”), carefully read and fully understood the provisions contained in the said Regulations.

2). I have, in particular, perused clause 3 of the Regulations and am aware as to what constitutes ragging.

3). I have also, in particular, perused clause 7 and clause 9.1 Regulations and am fully aware of the penal and administrative action that is liable to be taken against may ward in case he/she is found guilty of or abetting ragging, actively or passively, or being part of a conspiracy to promote ragging.

4). I hereby solemnly aver and undertake that

a) My ward will not indulge in any behaviour or act that may be constituted as ragging under clause 3 of the Regulations.

b) My ward will not participate in or abet or propagate through any act of commission or omission that may be constituted as ragging under clause 3 of the Regulations.

5). I hereby affirm that, if found guilty of ragging, my ward is liable for punishment according to clause 9.1 of the Regulations, without prejudice to any other criminal action that may be taken against my ward under any penal law or any law for the time being in force.

6). I hereby declare that my ward has not been expelled or debarred from admission in any institution in the country on account of being found guilty of, abetting or being part of a conspiracy to promote, ragging; and further affirm that, in case the declaration is found to be untrue, the admission of my ward is liable to be cancelled.

Declared thisday ofmonth of.....year.

Signature of deponent
Name:
Address:
Telephone/Mobile No.:

JSS COLLEGE OF PHYSIOTHERAPY – ANTHEM

Keeping the flame of JSS

Forever burning bright

Like a comet streaking through the sky.... JSS physiotherapy

Synonym for excellence, our beloved alma mater

You've given us direction (2)

JSS physiotherapy.....Synonym for excellence,

Shines like an evening star, among the JSS constellation

Three cheers for our alma mater

Three cheers for you

Standing tall in the belief, that we can, we will

We hold our heads high with pride, when we speak your name

We toil hard towards our goal, and we strive to excel

In each other's triumphs we rejoice, 24 Our failures are mere stepping stones

Our roots are firm even as we fly towards our aim

With our eyes on the future, and pride in our past

All of us different, yet each of us the same

In proud voices we proclaim

Our beloved alma mater

You've given us direction, JSS physiotherapy