

DIPLOMA IN PHYSIOTHERAPY TECHNOLOGY

(2 Years)

COURSE OVERVIEW

The course comprises of **100 classes**, spread over **24 months** with **200 hours** of theory & practical classes. The course covers all the basic medical subjects along with physiotherapy lessons in specific disease conditions. Details are given in the Course Outline.

COURSE OUTLINE

Module :1 Anatomy

- Introduction
- Bones & Joints
- Nervs & Muscles
- Surface Anatomy

Module :2 Physiology

- Introduction
- Cells and tissues
- Muscle Physiology
- Nervous System
- Pain Physiology
- Cardio Pulmonary System

Module :3 Pathology

- Introduction
- Inflammation
- Tissue & Bone healing



Module :4 Pharmacology

- Introduction
- Analgesics
- Muscle relaxants
- Nutritional Supplement

Module :5 Biomechanics

- Introduction
- Basic Concepts
- Joint Measurements
- Muscle Power Measurements

Module :6 Exercise Therapy

- Basic Concepts
- Mobilization, Manipulation & Massage
- Stretching
- Aerobics
- Resistive exercises
- Specialized Exercises
- Chest Therapy

Module :7 Electrotherapy

- Introduction & Basic Concepts
- Heat and Cold
- Radiotherapy
- Electro therapeutic Modalities
- UST
- Traction

Module :8 Physiotherapy in Musculoskeletal conditions

- Arthritis
- Fractures
- Degenerative conditions
- Sports Conditions
- Soft tissue injuries

Module :9. Physiotherapy in Neurological conditions

- Stroke
- Parkinson's
- TBI & SCI
- CP



Module :10 Physiotherapy in Chest, Surgical & Specialized Conditions

- COPD
- RLD
- General Surgery
- Burns

Module :11 Diagnostic Investigations

- Introduction
- Radio Imaging- X-Ray, CT, MRI & USG
- Related Blood Investigations

Module :12 General Rehab

- Introduction & Basic Concepts
- Orthotic devices

Module :13 Clinical Reasoning

- Clinical approaches
- History taking
- Clinical examination
- Identifying Red flags

Module :14 Financial Management

- Financial Planning
- Money Management



SCHEDULE OF CLASSES

Class 1 & 2 (4 hours Theory)

- General Introduction & Orientation
- Definition of Physiotherapy & its application
- Definition & Classification of Exercise & Electro Therapy

Class 3 & 4 (4 hours Theory)

- Basic Anatomical concepts
- Head & Neck
- Bones and Joints Vertebral Column
- Nerves and Muscles Vertebral Column

Class 5 & 6 (4 hours Theory)

- Bones and Joints UL
- Nerves and Muscles UL
- Applied Anatomy



Class 7 & 8 (4 hours Practical)

- Demonstration of Imp Concepts
- Surface Anatomy with important landmarks
- Applied Anatomy of C Spine, Thorax & UL

Class 9 & 10 (4 hours Theory)

- Bones and Joints LL
- Nerves and Muscles LL
- Applied Anatomy

Class 11 & 12 (4 hours Practical)

- Demonstration of Imp Concepts
- Surface Anatomy with important landmarks
- Applied Anatomy of L Spine, Abdomen & LL

Class 13 & 14 (4 hours Theory)

- Cells and tissues
- Bone, Muscle & Nerve tissues

Class 15 & 16 (4 hours Theory)

- Muscle and Exercise Physiology
- Cardio Pulmonary System

Class 17 & 18 (4 hours Theory)

- Nervous System
- Pain Physiology

Class 19 & 20 (4 hours Practical)

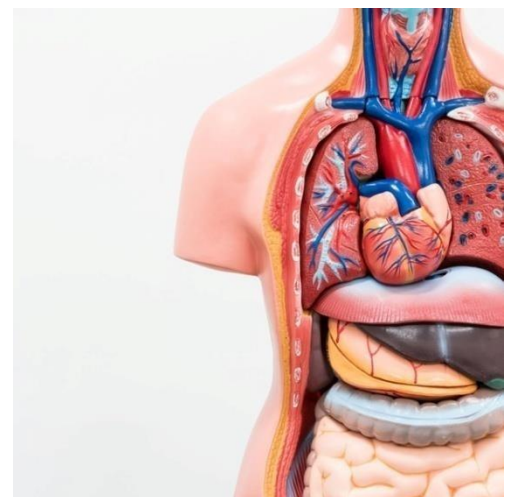
- Demonstration of important concepts
- Reflexes, Spirometry
- Cranial Nerves

Class 21 & 22 (4 hours Theory)

- Introduction to Pathology
- Inflammation
- Tissue and Bone healing

Class 23 & 24 (4 hours Theory)

- Basic Concepts in Pharmacology
- Analgesics
- Muscle Relaxants
- Nutritional Supplements



Class 25 & 26 (4 hours Theory)

- Introduction to Biomechanics & Basic Concepts
- Joint structure and function
- Muscle function

Class 27 & 28 (4 hours Theory)

- Regional Biomechanics of Shoulder Joint
- Regional Biomechanics of Hip Joint

Class 29 & 30 (4 hours Theory)

- Regional Biomechanics of Knee Joint
- Gait Analysis

Class 31 & 32 (4 hours Practical)

- Joint Range measurements of UL
- Joint Range measurements of UL

Class 33 & 34 (4 hours Practical)

- Muscle girth measurement
- Muscle power Testing

Class 35 & 36 (4 hours Theory)

- Introduction, Basic Concepts and Classification
- Massage & Stretching

Class 37 & 38 (4 hours Practical)

- Live Demonstration on Subject

Class 39 & 40 (4 hours Theory)

- Mobilization & Manipulation

Class 41 & 42 (4 hours Practical)

- Live Demonstration on Subject

Class 43 & 44 (4 hours Theory)

- Resistive exercises with bands
- Specialized Exercises, PNFs

Class 45 & 46 (4 hours Practical)

- Live Demonstration on Subject

Class 47 & 48 (4 hours Theory)

- Specialized Exercises related to Neurology
- Coordination, Gait & Balance Training



Class 49 & 50 (4 hours Practical)

- Live Demonstration on Subject

Class 51 & 52 (4 hours Practical)

- Chest Therapy
- Cardiac exercises

Class 53 & 54 (4 hours Practical)

- Live Demonstration on Subject

Class 55 & 56 (4 hours Theory)

- Introduction, Basic Concepts and Classification
- Heat and Cold

Class 57 & 58 (4 hours Practical)

- Demonstration of PWB, Gel Packs

Class 59 & 60 (4 hours Theory)

- Radiation therapy
- UST

Class 61 & 62 (4 hours Practical)

- Demonstration of UST, Laser, IR

Class 63 & 64 (4 hours Theory)

- High, Low & Mid frequency currents
- Traction

Class 65 & 66 (4 hours Practical)

- Demonstration of ES & TENS

Class 67 & 68 (4 hours Practical)

- Demonstration of SWD, LWD

Class 69 & 70 (4 hours Practical)

- Demonstration of IFT, Russian & Traction

Class 71 & 72 (4 hours Theory)

- Physiotherapy in Orthopedic conditions 1



Class 73 & 74 (4 hours Theory)

- Physiotherapy in Orthopedic conditions 2

Class 75 & 76 (4 hours Theory)

- Physiotherapy in Neurological conditions 1

Class 77 & 78 (4 hours Theory)

- Physiotherapy in Neurological conditions 2

Class 79 & 80 (4 hours Theory)

- Physiotherapy in Cardio-Pulmonary Conditions

Class 81 & 82 (4 hours Theory)

- Physiotherapy in Surgical Conditions

Class 83 & 84 (4 hours Theory)

- Physiotherapy in Pediatric Conditions

Class 85 & 86 (4 hours Theory)

- Physiotherapy in other Specialized Conditions

Class 87 & 88 (4 hours Theory)

- Introduction to Medical Imaging
- X-Ray, CT scan, MRI & BMD
- Related Blood Investigations

Class 89 & 90 (4 hours Theory)

- Introduction to General Rehabilitation and Basic Concepts

Class 91 & 92 (4 hours Theory)

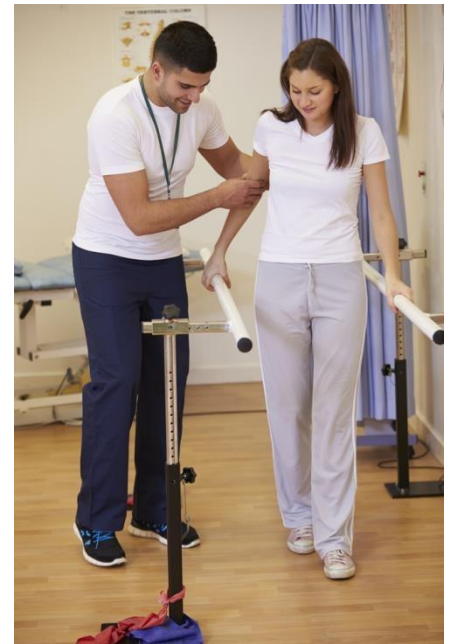
- Orthotic devices and their classification

Class 93 & 94 (4 hours Theory)

- Clinical approaches
- History taking
- Clinical examination
- Identifying Red flags

Class 95 & 96 (4 hours Practical)

- Demonstration of Clinical approach



Class 97 & 98 (4 hours Practical)

- Conclusion
- Q&A Session
- Practical Doubt clearing session.

Class 99 & 100 (4 hours Theory)

- Financial Planning
- Money Management

	THEORY	PRACTICALS	TOTAL
CLASSES	66	34	100
DURATION	132 hrs	68 hrs	200 hrs

SCHEME OF EXAMINATION

Theory: 70 marks

Viva Voce: 20 marks

Project Work: 10 marks

Total: 100 marks

STUDY MATERIALS

Notes, reference books & study materials will be provided by the institute.

ROTATIONAL INTERNSHIP

Compulsory Internship opportunity will be provided with the various tied up clinics & hospitals for practical work experience in OPDs & IPDs on a rotational basis.

Course fees: 22000 (approx.)

Required Documents for Admission:

- 4 Copies Passport Size Colour Photo
- Xerox copy of MP and HS Admit, Marksheet, Registration, Certificate
- Xerox copy of Aadhar Card or Voter ID
- Blood Group

* If you want to enroll online then you need to submit bank account number below rupee 1000 and fill the form with transaction ID and upload transaction screenshot.

Bank Details:

Bank Name - Bank of India

Account holder Name - Sipra das

Bank Account Number – 413610110007279

IFSC CODE - BKID0004198

Quick Contact

91-7003200317

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Active Life

Physiotherapy Clinic

&

Academy of Physiotherapy Technology

(Affiliated to Bharat Sevak Samaj)

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