

I. INTRODUCTION

Physiotherapy is the branch of modern medical science that has wide application in various fields.

A qualified physiotherapist whether a technician or a bachelor of PT, can have a satisfying career in Orthopaedics, Neurology, Sports Medicine, Pre and post natal exercises, gynaecology, geriatrics, paediatrics, ENT, dermatology etc.

Various methods of treatments are employed to treat ailments. Exercises are prescribed depending upon the patient's condition. Thorough assessments are made and comparison with the previous results are made throughout the course of the treatment.

Emphasis is placed upon making the patient independent and self-sufficient as early as possible. The patient should get back to normal activities as early as possible.

Considering the wide scope that this field has got and the number of people requiring rehabilitation, it is natural that more and more people get quality training to be efficient physiotherapists.

II.Objectives of the Course :

I. General Objectives :

1. To prepare the student enable to assist the Physiotherapist and occupational therapists in District Hospitals, General Hospitals, Rehabilitation Centres and teaching Hospitals, where in the complicated procedures and techniques can be handled by qualified therapists, and the routine and elementary procedures can be entrusted to these middle level workers, thereby relieving the qualified therapist from routine jobs.
2. To prepare the students to assist the doctor in PHC/Rural Rehabilitation Centres.

II. Instructional Objectives :

1. To prepare the student to identify locomotor disability and mental disability including cases of drug addiction.
2. To prepare the student to give exercises and to use simple physio-occupational therapy procedure.
3. To prepare the student to carry out simple Electrotherapy and hydrotherapy procedure.
4. To make simple aids, self help devices and splints.
5. To Maintain and care P.T./O.T. equipments.
6. To educate the community in prevention, early detection and rehabilitation.

III. Skills

1. Recognise various systems of function of body parts.
2. Proper use and handling of equipment
3. Develop skills in
 - i) Massage
 - ii) Hydrotherapy
 - iii) Electric stimulation
 - iv) Exercise therapy
 - v) Post Operative Exercise etc.

IV. Job Opportunities

1. As Assistant Physiotherapist in :
Rehabilitation Centre
Health Club
General Hospitals
Private Physiotherapy Centre
Physiotherapy Colleges
Nature Cure Clinics
Gymnasiums
2. Under the supervision of qualified physiotherapists they can start a physiotherapy clinics and can be personal Attendant for disable persons.

V. SCHEME OF INSTRUCTION AND EXAMINATION
Annual Scheme of Instruction and Examination for
Vocational Courses 1st & 2nd Year

Part - A	Theory		Practicals		Total	
	Periods	Marks	Periods	Marks	Periods	Marks
1. English	185	75	-	-	185	75
2. G.F.C.	185	75	-	-	185	75
Part - B						
3. Vocational Subjects						
Paper - I	160	50	160	50	320	100
Paper - II	160	50	160	50	320	100
Paper - III	160	50	160	50	320	100
Part - C						
4. On the Job Training -		-	210	50	210	50
Total	840	300	690	200	1540	500

Scheme of Instruction per week for Vocational Courses

Part - A	Theory	Practicals	Total
1. Communication Skills/English	6	-	6
2. G.F.C.	4	2	6
Part - B			
3. Vocational subjects			
Paper - I	5	5	10
Paper - II	5	5	10
Paper - III	5	5	10

New Scheme Proposed Calculation of working periods

Number of working days per annum	=	220 days
Number of periods per annum 220×7	=	1540 periods
Periods allotted for OJT [30 days 30×7]	=	210 periods
Periods allotted to Communication Skills/ English	=	185 periods
Periods allotted to GFC [125 Theory + 60 Practicals]	=	185 periods
Periods allotted to Vocational subjects		
Paper I [Theory 160 + Practicals 160]	=	320 periods
Paper II [Theory 160 + Practicals 160]	=	320 periods
Paper III [Theory 160 + Practicals 160]	=	320 periods
 Total		 1540 periods

Periods allotted per week

1. Communication skills/English	=	6 periods
2. G.F.C. [Theory 4 = Practicals]	=	6 periods
3. Vocational Subjects		
Paper I [Theory 5 + Practicals 5]	=	10 periods
Paper II [Theory 5 + Practicals 5]	=	10 periods
Paper III [Theory 5 + Practicals 5]	=	10 periods
 Total Periods per week	=	 42 periods

PHYSIOTHERAPY

VI. SYLLABUS

Ist Year :

Part-A

1. Communication skills in English
2. General Foundation Course

Part-B

3. Vocational Subjects
Paper I : Anatomy and Physiology
Paper II : Psychology and Abnormal Psychology
Paper III: Biomechanics and Exercise therapy

Part-C

On the job training

IIInd Year

Part-A

1. Communication Skills in English
2. General Foundation Course

Part-B

3. Vocational Subjects
Paper I : Medical and Surgical condition
Paper II : Orthopaedics and Neurology
Paper III : Electrotherapy

Part-C

On the job training

VI. SYLLABUS

ANATOMY - THEORY

Ist YEAR

PAPER - I

Hours : 110

1. Emphasis to be placed on Topographical, skeletal, Neuro Muscular and functional aspects of Anatomy **5 hrs.**

- a) Planes of the Humanbody
- b) Systems of the Body
- c) The Units of structure and Functions of Cell

2. Osteology **20 hrs.**

- a) Anatomical Position, planes, surfaces, relationship of parts of the body - proximal and distal
- b) Bones - Types of Bones, Function, repair, structure of long bone, vertebral column, type of vertebral bones, and surface land marks.

3. Arthology **15 hrs.**

- a) Classification of joints
- b) construction of joints
- c) Motions of joints
- d) Articulations - articular surfaces and types of joints

4. Myology **20 hrs**

- a) Types of Muscle tissue and Fascia
- b) Muscles of upper extremity, lower extremity, trunk, eye and face etc.
- c) Origin, function, nerve supply and actions
- d) Muscle spindle in detail

5. Cardio - vascular system **10hrs.**

- a) The heart main arteries, veins and capillaries
- b) Lymphatic circulation

- 6. Nervous System** **15 hrs.**
- a) Division and function of Nervous system
 - b) Nerve tissue - neurone, nerve fibre
 - c) spinal cord, brain and their structure
 - d) Name the peripheral and cranial nerves, supplying the major functional group.
 - e) Cerebro Spinal Fluid
- 7. Respiratory System** **5 hrs.**
- a) Anatomy of respiratory organs, Air passages, lungs, bronchial tree and segments
- 8. Digestive System** **5 hrs.**
- a) Anatomy of digestive organs, Oesophagus stomach, intestines
 - b) the digestive glands
- 9. Urinary System** **3 hrs.**
- a) Anatomy of urinary organs, kidney, ureter, urinary bladder
- 10. Reproductive System** **10 hrs.**
- a) Male and female reproductive organs
- Physiology **50 hrs.**

ANATOMY PRACTICAL

110 hrs.

1. Identification and description of skeletal system and joints 50 hrs.
2. Demonstration of Torax with organs in situations 15 hours
3. Identification of various organs with the abdomer 10 hrs.
4. Description of brain and peripheral nerves 25 hrs.
5. Records of various system diagram and labelling 10 hrs.

PHYSIOLOGY

Ist YEAR
PAPER - I

Hours : 50

Max.Marks : 25

- | | |
|--|---------------|
| 1. Animal Cell | 1 hrs. |
| 2. Blood | 3 hrs. |
| a) Composition of blood - plasma, coagulation phenomenon, blood groups | |
| 3. Heart and circulation | 5 hrs. |
| a) Properties of heart muscles | |
| b) Cardiac cycle | |
| c) Heart sounds | |
| d) B.P. | |
| 4. Respiration | 6 hrs. |
| a) Mechanism of breathing | |
| b) Lung volumes and capacities | |
| c) Dyspnoea | |
| 5. Neuromuscular System | 5 hrs. |
| a) Phenomenon of muscle contraction | |
| b) Change in body during exercise | |
| c) synapse | |
| d) Neuro muscular junction | |
| e) Degeneration and generation of nerves | |
| b) C.N.S. 5 hrs. | |
| a) Functions of Hypothalamns | |
| b) Cerebellum | |
| c) Thalamus | |
| d) Basal ganglia | |
| 7. Metabolism of fat, carbohydrates proteins | 3 hrs. |
| 8. Excretony System | 6 hrs. |
| a) Functionas of kidney | |
| b) Micturation phenomenon | |
| c) Skin functions and temp regulation | |

- | | | |
|------------|---|---------------|
| 9. | Endocrine system | 5 hrs. |
| | a) Functions of pancreas, pituitary and Thyroid | |
| 10. | Reproductive System | 5 hrs. |
| | a) Menstruation | |
| | b) Physiological changes during pregnancy | |
| | c) Contraceptive method | |

PHYSIOLOGY PRACTICAL

Hours : 50

- | | | |
|-----------|--|----------------|
| 1. | Study of Microscope | 5 hrs. |
| 2. | Recording of changes during exercise | |
| | a) B.P. | 5 hrs. |
| | b) Pulse rate | 5 hrs. |
| | c) Respiratory rate | 5 hrs. |
| 3. | Recording of B.P. | 10 hrs. |
| 4. | T.P.R. Description | 10 hrs. |
| 5. | Records of various physiological system with labels | |
| | 10 hrs. | |

PSYCHOLOGY & ABNORMAL PSYCHOLOGY

PAPER - II

Ist YEAR

Total Hours : 160

Max.Marks : 50

1.	What is Psychology	5 hrs.
2.	Behaviour	15 hrs.
	a) Types of abnormal behaviours	
3.	Intelligence	10 hrs.
	a) Evaluation, Mental Retardation, I.Q.	
4.	Aptitudes	10 hrs.
5.	Motivation	10 hrs.
	a) Types and methods	
6.	Personality development, assesment and disorder	10 hrs.
7.	Learning	10 hrs.
8.	Remembering and forgetting	10 hrs.
9.	Thinking perception and attending	10 hrs.
10.	Individual differences	10 hrs.
11.	Frustrations and conflicts	10 hrs.
12.	Psyco neurotic and psychosomatic disorder	10 hrs.
13.	Child adolscent and geriatric psychology	15 hrs.
14.	Alcoholism and drug addiction	10 hrs.
15.	Menopausal Syndrome	5 hrs.
16.	Functional Psychosis	10 hrs.

PRACTICALS

Total Hours : 160

1. Intelligence Evaluation
2. Intelligence test
3. Binets scale & stanford Binet scale
4. Personality evaluation
 - a) Human Figure test, drawing, painting & play
 - b) Wechrlers memory scale
5. Visits to psychiatric institutions
6. Evaluation of psychiatric patients
 - a) Patients with different behavioural disorders
7. Treatment of patients with Alcoholism and drug addiction
8. Treating different psychiatric conditions under supervision of psychiatrist

Total	:	50 Marks
Record	:	10 Marks
Viva	:	15 Marks
Practical:		25 Marks

BIOMECHANICS & EXERCISE THERAPY

Ist YEAR

PAPER - III

Marks : 50

Detailed Syllabus

I. Biomechanics :

1. Mechanical Principles 10 hrs.
Definition of Biomechanics, Axis and planes, kinematics, kinetics, gravity, center of gravity, line of gravity, base of support, equilibrium, fixation and stabilisation, force, type of forces, levers of the body and their mechanical advantage, pulleys, springs, elasticity, types of muscle contraction, range of muscle work, the group action of muscles, limb length measurement
2. Gait Analysis 10 hrs.
Definition, stages of gait, pathological gaits

II. Exercise Therapy

1. Introduction to Physiotherapy - Role of physiotherapy General considerations, principles of treatment - Methods and effects 1 hr.
1. Starting positions 2 hrs.
2. An introduction to exercise therapy : 20 hrs.
Aims of exercise therapy, techniques of exercise therapy, Goniometry in detail
3. Passive Movements 5 hrs.
Definition, classification, principles effects and uses of passive movements
4. Active Movements 15 hrs.
Definition, classification, techniques, effects and uses of active movements
5. Relaxation 40 hrs.
Definition, techniques of general and local relaxation
6. Joint Mobility 15 hrs.
Introduction, classification of Joints, limitation of joint range of motion, mobilising methods, Hip, Knee and Ankle.

7.	Muscle Strength	10 hrs.
	Introduction type of muscle work, range of muscle work, muscular weakness and paralysis, prevention of muscle wasting,	
8.	Stretching	5 hrs.
	Definition, classification, effects and uses	
9.	Neuromuscular Coordination	2 hrs.
	Frenkel's Exercises	
10.	Proprioceptive Neuromuscular facilitation	5 hrs
	Definition, classification, effects and uses	
11.	Hydro Therapy	3 hrs.
	Definition, indications, contraindications, dangers and precautions	
12.	Breathing exercises, postural drainage	7 hrs.
13.	Posture	4 hrs.
	Definition, classification, postural training	
14.	Suspension therapy (types), Mat exercises, Re-education board, swiss ball, shoulder wheel, CPM, finger ladder, parallel bars, medicine balls, equilibrium board, (definition, uses of all the above equipments)	15 hrs.
15.	Walking aids and gait training	3 hrs.
16.	Massage in detail	15 hrs.

EXERCISE THERAPY PRACTICALS

1. Description of Exercise Therapy equipments and its uses.
5 hrs.
2. Passive Movements, Active movements (resisted exercise)
30 hrs.
3. Gait and Gait training 10 hrs.
4. Goniometer, suspension therapy 30 hrs.
5. Joint mobilisation techniques 20 hrs.
Shoulder, elbow, hip and knee
6. Muscle strengthening techniques 20 hrs.
8. Breathing Exercises, postural drainage 15 hrs.
9. Massage 20 hrs.
11. Manual Muscle testing 10 hrs.

MEDICAL & SURGICAL CONDITIONS

IINDYEAR

PAPER - I

Total Hours : 160

Max.Marks : 50

Detailed Syllabus

General Medicine with Physiotherapy Management

1. Infections Diseases - Bones and Joints 25 hrs.
2. Nutritional Disorders
Rickets, scurvy, Osteo malacia and osteoporosis 6 hrs.
3. Respiratory disorders 7 hrs.
Asthma
Bronchitis
Emphysema
Bronchitis
4. Cardio Vascular disorders 25 hrs.
Myocardial Infraction
Angina
Congenital heart diseases
Ischechemic heart diseases
5. Endocrinal disorders 3 hrs.
Dwarfism
Gigantism
6. Tetanus` 3 hrs.
7. Gas Gangrene 3 hrs.
8. S.T.D. 3 hrs.
AIDS, Syphilis, Gonorrhoea
9. LEprosy and tuberculosis 5 hrs.

Surgery with PT Management

- Tyres of incisions 3 hrs.
- Anaesthesia Types 2 hrs.
- Burns - classification, degree of burns 10 hrs.
contractures, skin graft and flaps

Pre and Post Operative Physiotherapy Management for following surgeries	5 hrs.
Cardiac surgery	5 hrs.
Respiratory Surgery	
3) Knee Replacement	
Gynaecology	18 hrs.
1) Various stages of Labour and clinical management	
2) Physiological changes during pregnancy and physiotherapy Management	
Paediatrics	25 hrs.
1) Cerebral palsy and Pt Management	
2) Developmental milestones	
3) Hydro Cephalus and meningiocele	
4) Polio-causes, stages, prevention medical and P.T.Management	
Dermatology	10 hrs.
Dermatity, Eczema, acne, Psoriasis, heucoderma, Alopecia	

MEDICAL AND SURGICAL CONDITIONS

IInd YEAR

PRACTICAL - PAPER - I

1. Case history of each patient 40 hrs.
Respiratory conditions - Asthma, Bronchitis, Emphysema, Bronchiectasis
 2. Case history of Cardiac Patients 40 hrs.
 - 1) Myocardial infarction
 - 2) Angina
 - 3) Ischemic heart disease
 - 4) Congenital heart disease
 3. Postural drainage and Breathing Exercises 15hrs.
 4. Description and Physiotherapy Management for Medical conditions
 - 1) Burns 20 hrs.
 - 2) Leprosy 5 hrs.
 5. Pre and post operative management for 20 hrs.
 - 1) Cardiac Surgery
 - 2) Respiratory Surgery
 6. Physiotherapy Management for
 - 1) Acne Vulgaris 10 hrs.
 - 2) Psoriasis 10 hrs.
- Total : 50 Marks
Record : 10 Marks
Viva : 15 Marks
Practical + Spotters : 25 marks

ORTHOPAEDICS & PHYSIOTHERAPY

IINDYEAR

PAPER-II

Total Hours : 80

Max.Marks : 25

1. Introduction, orthopaedic Surgery definition and scope brief history 4 hrs.
2. Sprains and strains, dislocation - its types - causes and principle of treatment 4 hrs.
3. Fractures - types, displacement, general symptoms healing process of treatment, union, delayed union and malunion and non union 10 hrs.
4. Fractures of upper limb and lower limb, pelvis and Vertebra including MP and IP joint dis location and Colle's, montegial Fratures of phalanges and meta carpels. 10 hrs.
5. Crush injury of Hand 2 hrs.
6. Bennets Fracture, mallet finger, tenosynovites trigger finger 2hrs.
7. Myositis, tennis elbow, supracondylar 2hrs.
8. Volkman's contracture, recurrent dislocation of shoulder and Periathritis of shoulder 4 hrs.
9. Brachial Plexus, carpeltunnel syndrome 2 hrs.
10. Osteo arthritis, Rheumatoid arthritis rthritis ankylosis spondylitis, osteoporosis 4 hrs.
11. Metabolic disorder - Ricketes, Scurvy, Osteomalacia 2hrs.
12. Scoliosis, Kyphosis, lordosis, cervical spondylosis, lumbar spondylitis 6 hrs.
13. C.T.E.V., C.D.H. Torticollis 2 hrs.
14. I.V.D.P. 1 hrs.
15. Genuvalgum, Genuvarum, knee deformitis, Genu recurvatum 1 hr.
16. Tuberculosis of Bones 2 hrs.
17. Amputations and types role of Physiotherapy counselling 2hrs.
18. Orthopaedic appliances - splints prosthesis and Orthotics 2hrs.

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|-----|---|--------|
| 19. | Quadriceps contracture | 2hrs. |
| 20. | Foot deformities - flat foot
Calcaneal Spur
Plantar Fasciitis | 2 hrs. |
| 21. | Paraplegia, Quadriplegia | 6hrs. |

NEUROLOGY & PHYSIOTHERAPY TREATMENT

IInd YEAR

PAPER - II

Marks : 25

- 1. Introduction - approach to Neurologica Case** **6 hrs.**
1. Cerebral Cortex
 2. Pyramidal tract
 3. Extrapyramidal tract
 4. Cerebellum
 5. Spinal Cord
 6. Peripheral Nerve
- Brief outline of their structure and functions.
Difference between
- i) UMN and LMN lesions
 - ii) Spasticity & rigidity
2. Cerebral circulation and its disorders, hemiplegia, coma **4 hrs.**
3. Infections and inflammation **10 hrs.**
Meningitis, encephalitis, encephalomyelitis, poliomyelitis, intra cranial tumours (gliomas, meningiomas)
4. Extrapyramidal syndromes **4 hrs.**
Chorea, Athetosis, Hemiballismus, tremors, rigidity, parkinsonism
5. Syphilis and its neurological complications **2 hrs.**
6. Demyelinating and degenerative disorders **4 hrs.**
Multiple sclerosis, Motor neurone disorder

7. Disorders of peripheral nerves 6 hrs.
8. Polyneuropathy GBS, Diabetic neuropathy
9. Disorders of spinal cord - spinabifida, syringomyelia, transverse myelits, spinal tumors. 6 hrs.
10. Convulrine disorders 2hrs.
11. Ataxia - Types of ataxia, clinical features pathology, medical and physiotherapy treatment 6 hrs.
12. Head injury 3 hrs.

ORTHOPAEDICS & NEUROLOGY

PRACTICALS

Total Hours : 160

1. Taking case history of different Orthopaedic and neurological conditions 20 hrs
2. Identification of different Orthotics and prosthetics 10 hrs.
3. Description and Physiotherapy Management of following conditions 130 hrs.
 - i) Hemiplegia patients
 - ii) Polio Myelitis
 - iii) Parkinsonism
 - iv) Multiple Sclerosis
 - v) GBS
 - vi) Spina bifida
 - vii) Cerebral Ataxia
 - viii) Head injury
 - ix) Different types of fractures
 - x) TKR
 - Xi) Paraplegia
 - xii) Peripheral nerve injuries
 - xiii) Amputations
 - xiv) OA, RA etc.,

ELECTROTHERAPY

IInd YEAR

PAPER - III

Marks : 50

Detailed Syllabus

1. Physics and Basic Electrical Components 20 hrs
Electromagnetic radiation, Conductors & Non-conductors of electricity, Transmission of heat, physical effects of heat, static electricity, electric shock, earth shock.
2. Methods of heating the tissue : 35 hrs.
Physiological effects of heat, Paraffin Wax bath, Hot packs, Moist packs, Infra-red rays, U.V.rays.
3. Low frequency currents : 35 hrs.
Faradic & Galvanic currents, SD curve, Iontophoresis, TENS.
4. Cryotherapy 10 hrs.
5. Medium Frequency Current : 15 hrs.
Interferential therapy
6. High Frequency currents : 45 hrs.
SWD, MWD, US, (Basics of Laser)
Difference between low frequency & high frequency currents

In all the above topics definition, production, preparation of apparatus & patient, physiological effects, techniques, dosage, indication, contraindication, dangers and precautions are to be covered.

PRACTICALS

1. Details of electrotherapy equipment its knowledge and its operation. 5 hrs.
2. Assisting to qualified physiotherapist in treating patients 35 hrs.
3. Treatment or application of equipment on models.
 - i) Wax bath 5 hrs.
 - ii) Moist Pack 5 hrs.
 - iii) Infra red 5 hrs.
 - iv) Hot packs 5 hrs.
 - v) SWD 13 hrs.
 - vi) US 12 hrs.
 - vii) TENS 10 hrs.
 - viii) IFT 15 hrs.
 - ix) Stimulator 15 hrs.
 - x) Traction 10 hrs.
 - xi) Cryotherapy 5 hrs.
 - xii) U.V. Rays 10 hrs.
 - xiii) Iontophoresis 10 hrs.

VII. List of Equipment

1. Wheel Chair
2. Goniometer
3. Inch tape
4. Knee hammer
5. BP apparatus
6. Suspension table
7. Examination table
8. Shoulder wheel
9. Quadriceps table
10. Static Bicycle
11. Supination-pronation board
12. Ankle Exercises
13. Swiss ball, Medicine balls
14. Traction table
15. Finger ladder
16. Parallel bars
17. All types of walkers
18. All types of crutches, sticks
19. Ropes and pulleys
20. Springs, slings
21. Cervical collar, LS belt
22. Equilibrium board
23. Re-education board
24. Splints
25. Crepe bandage
26. Electrotherapy equipments
 - i) Wax bath
 - ii) Auto tract (Cervical & lumbar traction machine)

- iii) US (Ultra Sound)
- iv) Electrical Muscle stimulator
- v) Interferential therapy
- vi) Short wave diathermy
- vii) Ultra Violet radiation
- viii) TENS
- ix) Massager (Vibrator)
- X) Infra red (luminous/non luminous)
- xi) Hydrocollator packs
- xii) Heat pads

Address for the Procurement of Equipment

1. Prashant Physiotherapy training and surgical unit - Opp. Kumar Theatre, Kachiguda. Ph :9391017833,9393321420
2. Electro Care - Chennai
3. Gemi - Mumbai

IX.a. Suggested list of Collaborating Institutions

1. All the Government hospitals and Medical Colleges.
2. NIMHS, Hyderabad.
3. Sweekar Rehabilitation Institute, Secunderabad.
4. Thakur Hari Prasad Institute, Dilshuknagar, Hyderabad.
5. Any hospital with well equipped Physiotherapy centre with minimum 40 bed capacity
6. Prashant Physiotherapy Centre, Kachiguda, Hyderabad.
Ph.No.9391017833

b. On the Job Training (1st Year & 2nd Year)

OJT Site :

General Hospitals

Private Nursing Homes

Special Hospitals

Special Rehabilitation Centres

Leading Clinics/Prashant Physiocentre Ph:939107833

The Clinic attached to the college

NGO dealing with the handicapped

National and state level institute working for the rehabilitation of the handicapped

IX. Qualifications for Lecturers

1. Lecturer : Bachelor Degree from recognised University in Physiotherapy

OR

Diploma in Physiotherapy from recognised institute with 5 years experience in teaching/clinical experience.

XI. Vertical Mobility

1. Without Bridge Course

- i) B.P.T.
- ii) B.O.T.
- iii) Bachelor in Orthotic and Prosthetic Technology
- iv) B.A.
- v) B.Com

2. With Bridge Course

They are eligible for B.Sc. (B.Z.C.) and all the Medical Courses under EAMCET Examinations

XII. Reference Books

I. Biomechanics

- 1. Cynthia & Norkins : Joint structure and function
- 2. Gardiner M.D. : The principles of Exercise Therapy

II.Exercise Therapy

- 1. Kendall : Manual Muscle testing
- 2. Gardiner M.D. : The principles of Exercise Therapy
- 3. Margaret Hollis : Exercise Therapy
- 4. Kisner : Therapeutic Exercise
- 5. Cyriax J : Massage, Manipulation & local Anaesthesia
- 6. Cynthia's : Goniometry
- 7. Margaret Hollis : Massage Therapy
- 8. Resistance Exercise, Sports Training, Body Shaping, Obesity, Joint Pains by Prashant Shah 9391017833
- 9. Exercise Therapy by Prashant Shah 9391017833
- 10. Swiss Ball, Medicine Ball, Tubes exercises by Prashant Shah 9391017833

III. Electrotherapy

1. Clayton's : Electrotherapy
2. Low & Reed : Electrotherapy Explained
3. Joseph Kahn ; Electrotherapy
4. Sayeed Ahmeed : Electrotherapy

IV. Psychology

1. S.K.Mangal : Textbook of Psychology & abnormal psychology
2. Murgesh : Psychology

V. Anatomy & Physiology

1. B.D. Chaurasia : 3 Volumes, Textbook of Anatomy
2. Toratora : Anatomy & Physiology
3. Guyton : Textbook of Physiology
4. Chaudari : Textbook of Physiology
5. Gray : Gray's Anatomy
6. B.D.Chaurasia : Handbook of Anatomy
7. Evelyn Pearce : Anatomy & Phisiology for Nurses
8. Murgesh :Anatomy & Phisilogy

VI. Medical & Surgical Condition

1. Tidy's : Physiotherapy
2. Cash Medicine
3. Cash Surgery
4. Polden : PT in obsterics & Gynaecology
5. Bailey & love : Text Book of surgery
6. Davidson : Textbook of Medicine
7. Golwalla : Textbook of Medicine
8. Das : Clinical Examination
9. P.J.Mehta : Clinical Examination
10. Das : Textbook of Surgery
11. Phyotherapy Dictionary
12. Hutchison's (handbook) : Clinical Examination

VIII. Orthopaedics & Neurology

1. Cash Orthopaedics
2. Cash Neurology
3. O Sullivan : Physical Rehabilitation
4. Ian Bramley : Paraplegia & Tetraplegia
5. John Ebnzer : Orthopaedics in Physiotherapy
6. Adams J.C. : Outline of fractures including injuries
7. Jayant Joshi : Essential of Orthopaedics
8. Natrajan : Textbook of Orthopaedics
9. Maheshwari : Textbook of Orthopaedics
10. Brain & Branister : Neurology
11. Inderbersing : Neuro Anatomy

VOCATIONAL CURRICULUM-2005

(With effect from the Academic Year 2005-2006)

**CURRICULUM OF INTERMEDIATE VOCATIONAL
COURSE IN**

PHYSIOTHERAPY



**STATE INSTITUTE OF VOCATIONAL EDUCATION &
BOARD OF INTERMEDIATE EDUCATION A.P.
Nampally, Hyderabad**


FOREWORD

The National Policy on Education (1986) while proposing educational reorganization, placed high priority on the programme of vocationalisation of education. It emphasized that well planned, systematic and rigorously implemented vocational education will create a distinct stream to prepare students for identified occupations encompassing several areas of activity. The primary aim of vocational courses was to cut across several occupational fields and prepare students with employable skills in organized sectors and self employment. Vocationalisation through re-orientation of educational strategies focused on creating a talent pool of skilled youth who are trained in courses relevant to the market and emerging needs of the various sections of the economy.

Inspired by this vision of the National Policy, the Government of Andhra Pradesh introduced Vocational Education at +2 level with an aim to diversify a sizeable segment of students at the senior secondary stage to the world of work. The State Government aimed at reducing the pressures on higher education through empowering youth by harnessing their capabilities. The requirement of skilled manpower industry is being fulfilled by charting a student's career with right options based on aptitude and talent. An right alternative to medical and engineering courses is envisaged in vocationalisation of education in the State.

In view of the changing needs of the students and growing demand for a spectrum of skill competencies in the economy, the Board of Intermediate Education has reviewed the curriculum of Vocational Courses in order to re-orient them based on their viability and practicability. The revised curriculum for Vocational Courses at Intermediate Level will come into effect from the Academic Year 2005-06 1st Year and from Academic Year 2006-07 for 2nd Year students.

I am confident that the revised curriculum will attract more and more students into vocational stream and help them train in need-based, productive courses leading to gainful employment.



SHASHANK GOEL

Secretary, BIE

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