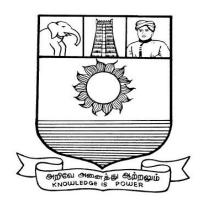
மனோன்மணியம் சுந்தரனார் பல்கலைக்கழகம் திருநெல்வேலி – 627 012

Manonmaniam Sundaranar University Thirunelveli – 627 012.



கல்விசார் நிலைக்குழுக் கூட்டம்

MEETING OF THE STANDING COMMITTEE ON ACADEMIC AFFAIRS HELD ON FRIDAY THE 27th OCTOBER 2017.

Syllabus for Diploma in Physical Rehabilitation Course offered through Directorate of Vocational Education (Community Colleges and Extension Learning Programme) from 2017 – 2018

Course Code: 5249

DIPLOMA IN PHYSICAL REHABILITATION SCHEME OF EXAMINATION

Subject Code	Title of the Paper	Credit	Hours	Passing Minimum
Semester I				
C17PR11/E17PR01	Anatomy and Physiology	6	90	40/100
C17PR12/E17PR02	Exercise Therapy and Massage	6	90	40/100
C17PR13/E17PR03	Electro Therapy	6	90	40/100
C17CE10/E17CE10	Communicative English	6	90	40/100
C17PRP1/E17PRP1	Practical – I Procedures	4	60	40/100
Semester II				
C17PR21/E17PR04	Rehabilitation	6	90	40/100
C17PR22/E17PR05	Community and Psychological Rehabilitation	4	60	40/100
C17LS23/E17LS05	Life Skill	6	90	40/100
C17PRP2/E17PRP2	Practical – II Procedures	4	60	40/100
C17PRPW/E17PRPW	Project/Internship	12	120	40/100

Eligibility for admission: Pass in 12th Std examination conducted by the Govt. of Tamil Nadu Board of Secondary Education, Government of Tamil Nadu or any other equivalent examination.

Examination: Passing Minimum for each paper is 40%. Classification will be done on the basis of percentage marks of the total marks obtained in all the papers and as given below:

40% but less than 50% - Third class 50% but less than 60% - Second class 60% and above - First class

Syllabus

First Semester

Paper-I : Anatomy and Physiology Paper-II : Exercise Therapy and Massage

Paper-III : Electro Therapy

Paper-IV : Communicative English Paper-V : Practical – I Procedures

Second Semester

Paper-VI : Rehabilitation

Paper-VII : Community and Psychological Rehabilitation

Paper-VIII : Life Skill

Paper-IX : Practical – II Procedures

Paper-X : Project/Internship

^{*(}Semester Pattern for Community College Only)

SEMESTER I

(C17PR11/E17PR01)PAPER I – ANATOMY AND PHYSIOLOGY

UNIT-I

Muscular system: Muscles of upper limb, thorax abdomen, pelvic, head and neck.

UNIT-II

Nervous system: Central nervous system, peripheral nervous system.

UNIT-III

Skeletal system: bone and joints.

UNIT-IV

Physiology: introduction of cardiovascular system, respiratory system, cells tissue.

UNIT-V

Blood and body fluids- Rbc And Hb, Wbc And Platelets, Blood Groups.

Reference books:

Foundation of Anatomy and Physiology – ROSS AND WILSON Human Physiology - SARADA SUBRAMANIYAM

(C17PR12/E17PR02)PAPER II – EXERCISE THERAPY AND MASSAGE

UNIT -I

Starting position.

UNIT - II

Movements: Active movements, Passive movements, Progressive restricted exercise.

UNIT -III

Muscle grading, re-education of muscle joint mobility, goniometry, crush walking, relaxation- suspension therapy, hydro therapy- bed rest complications.

UNIT-IV

Breathing exercise, types of breathing exercise, postural drainage

Massage: history of massage, the various manipulation technique, uses and Contra indications.

UNIT-V

Massages for upper limp, massages for lower limb, massage for back, massage for the face.

Reference books:

Manual of massage and measurements - EDITH M PROSSER

Principles of exercise therapy - DENAGARELINER

Practical exercise therapy - HOLLIS

Exercise therapy - DENACARDINER

Massage - Manual of massage and measurements

(C17PR13/E17PR03)PAPER III – ELECTRO THERAPY

UNIT - I

Introductory Physics -Electricity, static electricity, current electricity, Magnetism, moving coil galvanometer.

UNIT -II

Voltmeter, transformer, chokes, electric valves or thermionic valves, metal valve rectifiers' ionization.

UNIT -III

Low & High Frequency -Interrupted galvanic current, Effects of Interruptes galvanic current on innervated and denervated muscles, characteristic stimulating current.

UNIT -IV

Tens –definition, basic indications and contra indications. Traction – ICT, IPT. Paraffin wax and moist heat – method, indications and contra indications.

UNIT -V

Cryo therapy and Hydrotherapy – physiological effects and uses, techniques of applications, methods, indications and contra indications.

Reference book: Electrotherapy - CLAYTONS

(C17CE10/E17CE10)Paper IV Communicative English

Unit I: Learning context

Concept of learning – Learning style –Grammatical framework – sentence framing – paragraph and texts

Unit II: Reading

Basic concept - Purposes of reading-Decoding-Reading materials - Barriers of reading

Unit III: Writing

Basic concept-Writing style-Terminology-stages-English spelling and punctuation – Written texts

Unit IV: Speaking

Language functions-Conversation- Features of spoken English – Types of English course: functional English, English literature, advance English – Phonetic

Unit V: Developing Communication Skills

Meaning –Classroom presence- Features of developing learning process- Practical skills and Listening- uses of communicative English

Reference Books:

- 1. Raman,m.&S.Sharma (2011) communication skills,OUP,New Delhi: India
- 2. Lata, P.&S. Kumar (2011) communication skills, OUP, New Delhi: India,
- 3.Leech,G&J.Svartvik(2002) A communicative grammar of English,Pearson,India,
- 4. Sethi, J. and P.V. Dharmija (2007) A course in Phonetics and spoken English. Second edition, Prentice hall: New Delhi

(C17PRP1/E17PRP1)PAPER V- PRACTICAL -I PROCEDURES

UNIT -I

RECEIVING THE PATIENT: Good morning sir, please be seated. You have come to the Electrotherapy Department. I am the physiotherapist who is going to treat you. Please wait sir until I go through you case sheet.

UNIT -II

GOING THROUGH THE CASE SHEET: 1.Name 2. Sex 3.Age 4. Cause of illness 5. Duration of illness 6.Any previous treatment 7.Any improvement due to the previous treatment 8. Present condition on admission 9.Side to be treated.

UNIT -III

COLLECTION OF MATERIALS: i.Skin resistance lowering tray

- a) Tray b) Bowl with water and cotton swabs c) Soap d) Mackintosh e) Kidney tray f) Towel
 - ii. Treatment tray
- 1. Tray b) Bowel with water and cotton swabs c) Salt d) Petroleum jelly e) Leads
- f) Lint pads g) Electrode and straps h) Jageonet piece i) Mackintosh j) Towel k) pillows as per to necessary l) Other miscellaneous

UNIT - IV

9% of saline solution is prepared by adding a pinch salt to the bowl of water. Wetting the treatment site using saline provides it would have been loss while lowering the skin resistance.

UNIT -V

- 1. Knobs are tuned to zero.
- 2. Plugs and wires are checked for any break of insulations.
- 3. Check whether the cables are adherent.

UNIT - VI

SKIN RESISTANCE THERAPIST:

The therapist should position himself in such a way that is free to reach the machine and the patient and should take acre that doesn't get enlarged among wires.

UNIT - VII

SKIN RESISTANCE LOWERING:

The part to be treated is wiped with soap and it is water wiped with towel. Before washing, the mackintosh and a towel is unrolled the part to be treated.

This is done because:

Dirty and oily substance such as sebum which off resistance to the flow of current are removed by the action of soap.

Electricity is conducted at minimum intensity.

UNIT-VIII

INSTRUCTING THE PATIENT:

I am going to start the treatment, tell me when you feel the current. You will feel a prickling sensation, when current passes. Inform me immediately whenever

There is a burning sensation

Please don't touch me or anything around you

Don't pull out the lead or shake the past.

These instructions are given to the patients.

To avoid electrolytic burns

To avoid electric shocks

SEMESTER II

(C17PR21/E17PR04)PAPER VI – REHABILITATION

UNIT - I

Rehabilitation – definition, rehabilitation team, impairment, disability and handicap.

UNIT -II

Therapeutic exercise technique.

UNIT -III

Orthotics, Amputation and Prosthetics.

UNIT -IV

Mobility aids, activities of daily living, pain path ways.

UNIT -V

Rehabilitation of burns, fractures, common pain syndromes.

Reference book: Textbook Of Rehabilitation - SUNDER.

(C17PR22/E17PR05) PAPER VII – COMMUNITY AND PSYCHOLOGICAL REHABILITATION

UNIT - I

CBR, IBR - characters, advantages and disadvantages.

UNIT - II

Role of rehabilitation professional, models of CBR.

UNIT - III

Rehabilitation Psychology – definition, scope and methods.

UNIT - IV

Role of psychologist in disability rehabilitation.

UNIT - V

Personality and life span development of persons with disabilities, personality traits and copying styles.

Reference books:

Current Topics in Rehabilitation Psychology: Grune&Straton Textbook Of Rehabilitation – SUNDER.

(C17LS23/E17LS05) PAPER VIII- LIFE SKILL

(Common to All Courses)

UNIT-I ATTITUDE: Positive thinking – Goal setting – Problem Solving and Decision making – Leadership and Team Work.

UNIT-II COMMUNICATION SKILLS: Oral communication: Concept of English language – Fluency – Verbal communication in official and public situations.

UNIT-III COMMUNICATION SKILLS: Written Communication: Comprehension – Writing a formal letter like application for Job, enquiry, reply, complaint and such others – preparation of Resume, Curriculum Vitae.

UNIT-IV COMPUTING SKILLS – 1: Introduction to Computers, its various components and their respective functions – Memory storage devices – Microsoft (MS) Office – MS Word.

UNIT-V COMPUTING SKILLS – 2 Internet Basics – Origin of Internet – MODEM – ISP – Upload – Download – e-mail – Origin of worldwide web (www) Browsers – Search engines.

Reference books:

Life skill, Manonmaniam Sundaranar University Publications Division (2011)

(C17PRP2/E17PRP2)PAPER IX- PRACTICAL -II PROCEDURES

UNIT-I

POSTION OF PATIENT:

The patient is made to lie supine on the wooden coach, the limb to be treated is kept elevated using pillows. So gravity assists draining oedema.

UNIT-II

USE OF CURB BANDAGE:

Curb bandage is tied over the entire limb, with decreasing pressure from the foot to the high. Curb bandaging machine draining theoedematous fluid.

UNIT-III

PULSE:

Triangular.

UNIT-IV

PLACING OF THE ELECTODES:

In difference : As sacral plexus

Active :At head of fibula where the laternal popling nerve

Places above the medical condyle over tidal nerve, low frequency.

Electrotherapy:

Stimulation for all muscles in the anterior & posterior aspect of both upper and lower limb.

Facial stimulation

S D curver

Faiadic foot bath

Fardism under pressure

IFT (inter/Fertinal therapy)

TENS

Exercise therapy

- 1) Massage both upper and lower limb, back massage, facial massage.
- 2) Stretching -T.A stretching
 - -Adductor stretching
 - -Biceps stretching
 - -Triceps stretching
 - -Hamstring stretching

Passive movement for both upper & lower limbs.

(C17PRPW/E17PRPW)Paper X PROJECT/INTERNSHIP

Need compulsory internship/projects related to the course.