

First B.O.Th. Year

B.O.Th. : 105 FUNDAMENTALS OF OCCUPATIONAL THERAPY II

Total Hours : 240 (theory — 60, practical -180)

Theory: 100 marks (University examination : 70, Internal Assessment :30)
Practical : 100 marks (University examination : 70, Internal Assessment: 30)

Course Objective:

The students should be able to fulfill the following objectives of this course.

- 1) a) Define human development and explain the importance of its knowledge in occupational therapy.
 - b) Enumerate with examples the various aspects of human development such as physical, sensory, motor, cognitive, emotional, cultural & social.
 - c) Specify & describe biological environmental & inherited factors influencing human growth & development & its importance related to Occupational Therapy.
- 2) a) Specify general principles of human maturation
 - b) Explain following anatomic directional Principles of human development.
 - i) Cephalocaudal pattern of development
 - ii) Proximodistal pattern of development
 - iii) Mediolateral pattern of development
 - iv) Mass to specific pattern of development
 - v) Gross to fine motor pattern of development
- 3) Define & classify Activities of daily living (ADL). Explain evaluation of ADL & give outline of various scales used. Outline principles & specific techniques in ADL training. Describe briefly achieving access to home, community & work place. Briefly, explain the sociocultural — economic deviations. Outline the principles of adaptation process. Define adaptive devices.
- 4) Explain briefly occupational therapy as diagnostic & prognostic procedure.
- 5) Explain in brief the following steps involved in preparing the client for return to work.
 - a) Prevocational evaluation
 - i) Evaluation of work capacity
 - ii) Evaluation of physical capacity
 - iii) Evaluation of functional capacity
 - b) On the job or work site evaluation
 - c) Work samples such as TOWER, BTE, WEST
 - d) Work hardening & work conditioning
- 6) Have a brief knowledge of different types of tools & equipments & their uses in Occupational Therapy. Explain therapeutic uses & maintenance of tools & equipments.

- 7) Define & classify splints with their brief description, state general principles of splinting, describe material used.
- 8) Describe hand function & evaluation methods
 - a) Functional anatomy of hand
 - b) Prehension & grasp patterns.
 - c) Grip & pinch strength
 - d) Functional evaluation of hand
 - e) Quedema assessment -

PRACTICALS

- 1) Acquire the skills of designing a paper model of hand splints viz, finger Gutter, resting pan, long opponens, radial bar cock-up, radial nerve splint using extension outrigger.
- 2) Identify tools & equipments, their parts, uses & therapeutic uses.
- 3) Analyze jobs such as tailoring, data entry on computer, wood cutting, envelop making.

B.O.Th. : 105 Syllabus:

(100 marks)

- 1) Basic concepts of human development - (10 hrs)
 - a) Importance of knowledge base, definitions
 - b) Aspects of human development — physical, motor, sensory, cognitive, emotional, cultural, social.
 - c) Factors influencing human growth & development — biological, environment, inherited.
- 2) Principles of maturation: - (10 hrs)
 - a) General principles•
 - b) Anatomic directional principles
 - i. Cephalocaudal patterns of development
 - ii. Proximal distal patterns of development
 - iii. Medial lateral patterns of development
 - iv. Mass to specific patterns of development
 - v. Gross motor to fine motor patterns of development
- 3) Activities of daily living — (10 hrs)
 - a) Definition
 - b) Classification
 - c) Evaluation of ADL
 - d) Various scales used in ADL (Barthel, Katz, Kenny's, Klein-Bell, AMP's Indices)
 - e) Principles & specific techniques in ADL training for:
 - i) Weakness
 - ii) Low endurance
 - iii) Limited ROM
 - iv) In co-ordination
 - v) Loss of use of one side of body
 - vi) Limited vision

- vii) Decreased sensation

- f) Achieving access to home, community & work place.
- g) Adaptation: 1) Adaptation process
 - ii) Introduction to adapted devices
- h) Cultural & socio-economical deviations in ADL

- 4) Occupational Therapy as diagnostic & prognostic procedure — (3 hrs)
 - a) Definition of evaluation
 - b) Types of evaluation
 - c) Steps involved in evaluation

- 5) Preparing for return to work - (7 hrs)
 - a) Prevocational capacity evaluation
 - i) Work capacity evaluation
 - ii) Physical capacity evaluation
 - iii) Functional capacity evaluation

- 6) Crafts: Knowledge of tools, equipment, materials, their therapeutic values & uses. (5 hrs)

- 7) Hand function & evaluation methods: (5 hrs)
 - a) Functional anatomy of hand
 - b) Prehension and grasp patterns.
 - c) Grip & pinch strength.
 - d) Functional evaluation of hand
 - e) Oedema assessment

- 8) Introduction to hand splints: Definition, Classification, principles, material used in designing & fabrication - (10 hrs)

TEXT BOOKS RECOMMENDED : (latest edition of the following books are recommended)

1. Willard & Spacksman's Occupational Therapy.
2. Introduction to Occupational Therapy by Ann Turner.
3. Occupational! Therapy: Practice skills for Physical Dysfunction by — L.V. Pedretti.
4. Occupational Therapy for Physical Dysfunction by — C.A. Trombly.
5. An Approach to Occupational Therapy by — Mary Jones.