

Fourth B.O.Th. Year
403.O.T. IN SURGICAL CONDITIONS

Total hours: 430 hrs (Theory-60 hrs + clinical-60 hrs + supervised clinical practice- 310 hrs).

Total marks: 200, Theory: 100 + Clinical: 100

Theory - University exam: 70 + internal assessment: 30 = 100

Clinical - University exam: 70 + Term work: 30 = 100

COURSE OBJECTIVES

The students will be able to fulfill with 75% accuracy as measured by written oral & clinical evaluation the following objectives:

1) Burns:

Define the term “Burns”, classify burns depending on various aspect, describe stage of burns explain role of O.T. in burns patients including assessment, describe O.T. treatment in pregraft postgraft & rehab phase.

2) Amputation

Define amputation & state an etiology in brief, briefly state surgical management, explain specific considerations & problems encountered after amputation, advise various ways of psychological adjustment in this problem, describe various levels of amputation & suggest functional prosthesis components or accessories — foot assembly & Terminal Devices, describe pre & post-prosthesis training program of upper & lower extremity amputations.

3) Tendon Injuries

Flexor & extensor tendon injury, state aetiology in brief, explain various surgical procedures in brief, describe O.T. treatment & splintage.

4) Crush Injuries of Hand

Assess using various tests for evaluation of hand function, grip, pinch, oedema, sensory examination. Enumerate causes & describe pre & post operative management of tendon & nerve injuries & their repair & describe various types of splints made. Describe various types of splint made with their uses in different conditions.

5) Cancer rehabilitation

Describe preventive, restorative, supportive and palliative aspects in radical mastectomy and head and neck cancer.

Explain the concept of hospice, family systems and the need for treatment of the family as the unit care.

6) Vascular Condition

Explain peripheral vascular diseases their complications & role of O.T. in their management.

7) Occupational Therapy in Blind

Describe the role that the senses play in person's life & in the process of rehabilitation, define the term blindness, refute common misconception about blindness, describe the emotional, physical & psychological needs of blind person, explain preventive measures.

8) Occupational Therapy in deaf, dumb

Explain development of auditory perception, define and classify deafness, Enumerate causes of deafness, types of hearing aids, communication skills, Facilities for the deaf- mute, functional and vocational rehabilitation, explain preventive measures, describe vestibular affections and re-training.

9) Occupational Therapy in Orthopedic Condition

1. Demonstrate appropriate evaluation procedure and principles of treatment for orthopaedic patient.
2. Outline various congenital orthopaedic conditions. Explain in brief O.T. Management.
3. Describe and demonstrate practices used in assessment and treatment planning of fracture of upper and lower extremity in complications and surgical management.
4. The principles and goals of treatment including use of PNF techniques in Erb's Palsy, Brachial plexus injuries and peripheral nerve injuries.
5. Enumerate injuries of vertebral column and spinal cord and describe its O.T. Management and various spinal orthosis.
6. Explain in brief O.T. Management for injuries around the joint and surgical intervention.

COURSE CONTENTS

- 1) Burns: Definition, classification, stages of burns, O.T. in burns, pre-graft treatment, post-graft treatment, rehabilitation of burns.
Amputation : Aetiology, surgical management, special consideration & problems, psychological adjustment, levels of amputation, accessories & component part of prosthesis, upper & lower extremity prosthetic training program for upper & lower extremity.
- 3) Tendon Injuries: Aetiology, surgical Treatment, O.T. Treatment
- 4) Crush injuries of hand, tendon & nerve injuries & their reconstruction, pre & post operative management in O.T. & splinting
- 5) Cancer rehabilitation: Preventive, restorative, supportive and palliative aspects of radical mastectomy, head and neck cancer
- 6) Vascular Conditions: Peripheral vascular diseases and O.T.
- 7) Occupational Therapy in blind: Definition and Classification, mobility techniques, communication skills, sensory re-education, emotional and psychological aspects of blindness facilities for blind, prevention of blindness.
- 8) Occupational Therapy in deaf, dumb, Definition and classification, communication skills, types and uses of hearing aids, emotional and psychological aspects, facilities for deaf, prevention of deafness, vestibular affections and re-training.
- 9) Orthopaedic clinical evaluation and treatment.

- 10) Congenital orthopaedic conditions and O.T. Management
- 11) O.T. for fractures of upper and lower limbs, management of complications, internal fixation, external fixation, excision and replacement arthroplasty.
- 12) Occupational Therapy management including PNF techniques for Erb's Palsy, brachial plexus palsy and peripheral nerve injuries.
- 13) Injuries and pathological conditions of vertebral column and spinal cord, spinal orthosis and O.T. Management.
- 14) Injuries at and around joints of upper and lower extremity, arthroscopic and surgical intervention O.T. treatment.
- 15) Poliomyelitis and cerebral palsy. Reconstructive surgeries including limb lengthening procedures and orthotic management
- 16) Arthritis, Surgical and rehabilitation programme.
- 17) Pain management in Occupational Therapy.

BOOKS RECOMMENDED

- 1) Occupational Therapy — Wilard & Spackman
- 2) O.T. Practice Skills for Physical Dysfunction — Pedretti
- 3) CT. in Physical Dysfunction — Scott
- 4) Therapeutic Exercise — Basmajian
- 5) Rehab Medicine — Goodgold
- 6) Rehabilitation of Hand — Wynn & Parry
- 7) Hand — Hunter
- 8) Hand splinting — Fees
- 9) Therapeutic exercise — Kissner
- 10) Physical rehabilitation, assessment & treatment — Suzan O' Sullivan.