

COURSE	FACULTY OF PHYSIOTHERAPY
PROGRAM	BACHELOR OF PHYSIOTHERAPY
SEMESTER	2
COURSE TITLE	RADIOLOGY/ENT/OPHTHALMOLOGY
COURSE CODE	17PT0208
COURSE CREDITS	2

Course Outcomes: After completion of this course, student will be able to:

1. Identify the differences between normal and abnormal X rays of extremities, spine and chest and also in specific conditions like OA.
2. Understand other radio imaging techniques like MRI, CT, USG etc.
3. Apply the use of interpretation of radiography findings for assessment and treatment of the patients.
4. Describe the anatomy and physiology of hearing and the use of audiometry in the assessment of hearing.
5. Understand diseases of E.N.T. emphasis on otitis media, Bell's palsy, sinusitis and rhinitis
6. Describe the anatomy and physiology of hearing and the use of audiometry in the assessment of hearing.
7. Describe Common eye diseases, vitamin A deficiency, Eye lesion in leprosy and disorders of ocular movements in myasthenia gravis, progressive supranuclear palsy and lower motor neuron diseases.

Pre-requisite of course: Identify common chest conditions together with basic traumatic, infective, inflammatory and degenerative conditions and bony skeletal 2. Read CT, MRI of different joints At the end of the course the candidate will be able to: Identify common ear, nose, throat conditions At the end of the course, the students will be able to 1. Acquire knowledge of structure and function of the eye 2. Describe etiology, patho-physiology, sign and symptoms and clinical evaluation of common ophthalmic conditions related to Physiotherapy

Teaching and Examination Scheme

Theory Hours	Tutorial Hours	Practical Hours	ESE	IA	CSE	Viva	Term Work
40	0	0	0	0	0	0	0

Contents : Unit	Topics	Contact Hours
1	Radiology Introduction to Radiology, Importance of Radiology in Physiotherapy, X-rays of fractures of different bones in the body, X-rays of different stages of fracture healing, X-rays of different Orthopedic conditions - Osteoarthritis, Rheumatoid arthritis, Cervical & lumbar spondylosis, foot deformities etc., X-rays of common chest conditions, C.T Scan, M.R.I., Angiography, 3D reconstruction of bones & joints	15

2	ENT Anatomy & Physiology of Hearing: Assessment & Management of Hearing Loss 2. Introduction to Disease of ENT: Otitis media, Sinusitis & Rhinitis 3. Facial Nerve Palsy: Causes & Management 4. Larynx & Associated functional paralysis with tracheostomy & Care of tracheostomy 5. Vertigo: Causes, Assessment & Management.	10
3	Ophthalmology Common eye diseases, including Refractory errors, conjunctivitis, and trachoma. 2. Cataract and glaucoma. 3. Squint and ptosis. 4. Eye lesions in leprosy, including causes treatment and complications of lagophthalmos. 5. Causes, clinical features and treatment of disorders of ocular movement occurring in diseases such as myasthenia gravis, progressive supranuclear palsy and lower motor neuron diseases. 6. Causes, clinical features, treatment and prognosis in inflammatory disorders, vitamin A deficiency, emphasis on preventable causes and prophylactic measures. 7. Definition of blindness, and visual disability evaluation, investigative procedures used for testing visual failures.	15
Total Hours		

References:

1. Chest X-ray interpretation - Michael Darby et al.
2. Bone and joint imaging - Donald Resnick
3. Principles and practice of medicine by – Davidson, 20th Edition, Churchill Livingston Publication
4. Principles of Internal medicine - Harrison
5. Principles and practice of medicine by – Davidson, 20th Edition, Churchill Livingston Publication
6. Principles of Internal medicine - Harrison