SYLLABUS FOR M.S. DEGREE COURSE IN E.N.T.

POST GRADUATE M.S. DEGREE COURSE IN E.N.T. TRAINING PROGRAMME

First year

E.N.T.		5	months
General Surgery		1	month
General Medicine Ward		1	month
Anaesthesia		1	month
Plastic surgery		1	month
Cardio Thoracic Surgery		1	month
Neuro Surgery		1	month
Oral Facio Maxillary Surgery		1	month
	Total	12	months

(Training in departments not active in our hospital, may be arranged in other centres)

Second Year		
Audiology add Neurology	2	months
Paediatric Otolaryngology	2	months
Anaesthesia	1	month
Radiology and Radiotherapy	1	month
ENT including upper aerodigestive tract endoscopy	6	months
Total	12	months

(Training in radiation & surgical oncology may be arranged in other centre)

Third year

E.N.T.

12 months

POST GRADUATE M.S. DEGREE COURSE IN E.N.T. SCHEME OF EXAMINATION

Distribution of Marks :

Part – 1 (At the end of First Year)

Title	Duration in Hours	Maximum Marks
Applied Basic Sciences (relating to E.N.T.)	3	100

MODEL QUESTION PAPER M.S. POST GRADUATE DEGREE CLINICAL EXAMINATION PART –I PAPER – 1 :APPLIED BASIC SCIENCES

Time : 3 Hours

Maximum : 100 Marks

(Four out of Five Short Notes to be Answered in each subject)

Part – I (At the end of Third year)

Anatomy	5 X 4 =	20
Physiology	5 X 4 =	20
Biochemistry	5 x 3 =	15
Pharmacology	5 x 3 =	15
Pathology	5 x 3 =	15
Microbiology	5 x 3 =	15
	Total =	100 Marks

Part – II (At the end of Third year)

Theory	Title	Duration in Hours	Maximum Marks
Paper - I	E.N.T. including audiology & Neurotology	3	100
Paper – II	E.N.T. including Head and And Neck oncology	3	100
Paper – III	Recent advances in E.N.T. Medicine & Surgery as Applied to E.N.T.	3	100
		Total	300

CLINICAL EXAMINATION :

	No. of Cases	Duration	Marks
Long Case	1 x 90)	One Hour	90
Short Cases	3 X 30	45 Minutes	90
Communication	Skill		20
		Total	200 Marks

ORALS - 100

Instrument	-	10
X- ray / Radiology	-	20
Specimen	-	10
Slide	-	10
Operative Surgery	-	20
Viva and Log Book	-	30
Total	-	100

MARKS QUALIFYING FOR A PASS

Part – II (At the end of Third year)

Theory	Title	Duration in Hours	Maximum Marks	Minimum Marks
Part - I	Applied Basic Sciences	3	100	50
Patr – II	 Theory - Paper I, II & III And Neck oncology inclu Recent advance 	- ding	300	150
	2. Clinical	-	200	100
3. Viva	3. Viva	-	100	-
	4. Aggregate of $(2 + 3)$	-	300	150
	Total		600	

SYLLABUS

Anatomy

- Prenatle & postnatal devevelopment of the year, Internal year Airspacis and lining membrane
- 2. The ossicles
 Stapes
 External ear
 Pneumatisation of the mastoid process
- Anatomy of temporal bone Squamous portion Petrous portion Tympanic portion
- 4. Anatomy of the ear External ear Middle ear

Internal ear

- Anatomy of the cranial nervs With particular references to facial and auditory nerves
- Osteology of the cranial bone Vemous Sinuses The brain

ANATOMY OF NOSE AND PARA NASAL SINUSES

Prenatal and post natal The external nose The nasal cavity The para nasal sinuses Nasal mucous membrance Blood supply and nerve supply

ANATOMY OF THE PHARYNX AND NOSE

Development The tonsils The lymphoid tissue

ANATOMY OF THE LARYNX

Prenatal and post natal development of the larynx Difference between child and adult larynx Muscles and cartilages of larynx Anatomy of trachea, bronchi, oesophagus Broncho pulmonary segments The mediastinum The visceral arches, there derivatives developmental defects Development of face

BACTERIOLOGY SYLLABUS

- 1. Elementary bacteriology pertaining to :
 - a) Cornybacterium Diphtheria
 - b) Staphylo, Strepto, Pneumo
 - c) Neisseria group
 - d) Proteus Group
 - e) Vincents and fusiform bacilli
- 2. Fungus : Aspergillus group Rhinosporidiosis etc.
- 3. Ciruses : Adeno virus, Cosake virus
- 4. Immunology

BIOCHEMISTRY SYLLABUS

- 1. Biochemistry of body fluids and CSF
- 2. Electrolyte balance and maintenance of PH of blood
- 3. Biochemical changes in upper airway obstruction and after tracheostomy
- 4. Biochemistry of labrynthine fluids and its variation in diseases.

PHARMACOLOGY SYLLABUS

- 1. Pharmacology of sympathomimetic and their uses in oto laryngology
- 2. Local anesthetics and analgesics : Merits and Demerits
- 3. Chemotherapy of Malignant conditions
- 4. Corticosterioids and its usage in Oto laryngology
- 5. Antibiotic recent trends

PATHOLOGY SYLLABUS :

- 1. General Pathology Inflammations, Necrosis, Gangrene repair of wounds
- 2. Shock Pathology
- 3. Granuloma sincluding mid line granulomas
- 4. Thrombosis and Embolism
- 5. Tumours -etiology, classification, pathology, and histopathlogy

SPECIALPATHOLOGY

Surgical pathology of Mouth, Jaw, Neck, Salivary glands and Oesophagus

EAR:

Pathology of the external ear Histopathology of the drum membrane Inflammation of the middle ear Inflammation of the mastoid Inflammation of the petrous Histopathology of the inner ear Chronic inflammatory changes in the temporal bone Neoplasms of the ear

NOSE :

Pathology of the nose Chronic specific infections of the Nose and Accessory sinuses (prenasal) Cysts and Tumours of the nose and Accessory sinuses

PHARYNX AND LARYNX:

Oral and Pharyngeal pathology as manifestations of constitutional diseases Pathology of the nasopharynx, larynx Lungs swellings of tunifaction of the neck Clinical pathology in its relationship to oto – laryngology

PHYSIOLOGY SYLLABUS:

Regulation of water balance and composition of body fluids by the kidney Coagulation of blood

PHYSIOLOGY OF SPECIAL SENSES:

Taste Smell Hearing Physiology of respiration including its mechanism and regulation Physiology of deglutition Maintainance of balance of the body Physiology of nose and paranasal sinuses Carriage of oxygen by blood Carbon – dioxide transport in the body

AUDIOLOGY SYLLABUS :

Physiology of hearing and balance Hearing including physics of sounds Sound production Physics of sound The vibration The decibel The material source Wave motion in material medium

Propagation Complex sound in various and phase difference Sound conduction

Vestibular function

Semicircular canals

The otolith organs

PATH II SYLLABUS

Disease of ear Disease of nose Diseases of throat Diseases of head and neck

RECOMMENDED LIST OF TEXT BOOKS AND JOURNALS

- 1. Scott Brown's Otolaryngology five volumes
- 2. Otolaryngology volumes I to IV edited by Paperella Shumrick, Gluckman and Meyerhoff
- 3. Ballernger diseases of the Nose, Throat, Ear, Head and Neck
- 4. Mawson's diseases of the ear
- 5. Glasscock and shambaugh surgery of the ear
- 6. Learning ear surgery by temporal bone dissection by Dr. K.K. Ramalingam and Dr. B. Sreeramoorthy
- 7. Year book of otolaryngology, Head and Neck surgery edited By Micheal M. Paperella and Byron J. Bailey
- 8. Tumours of the Head and Neck Clinical and Pathological Considerations by John G. Batsakis
- 9. Rob and Smith Opeative surgery three volumes
- 10. Recent advances in Otolaryngology
- 11. Jacksons text book of Broncho Oesophagology
- 12. Radiology of Head and Nek by Valvassori

REFERENCES :

Lore's Atlas or Head and Neck Surgery

Microsurgery of the skull base by Ugo Fisch and Doughlas Matto Text book of operative surgery by Lee.

JOURNALS:

- 1. Indian Journal of Otolaryngology
- 2. British Journal of Otolaryngology
- 3. Laryngoscope
- 4. North American Clinics of Otolaryngology
- 5. Annals of Otology, Rhinology and Laryngology
- 6. Acta Otolaryngologica
- 7. Archivs of Otolaryngology, Head and Neck surgery
- 8. Journal of Paediatrics Otolaryngology