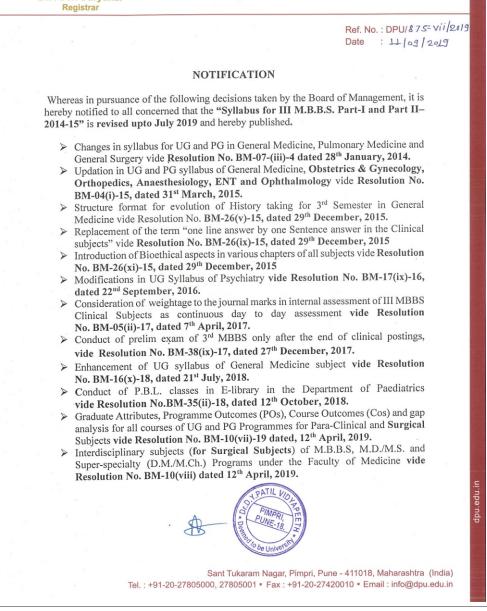
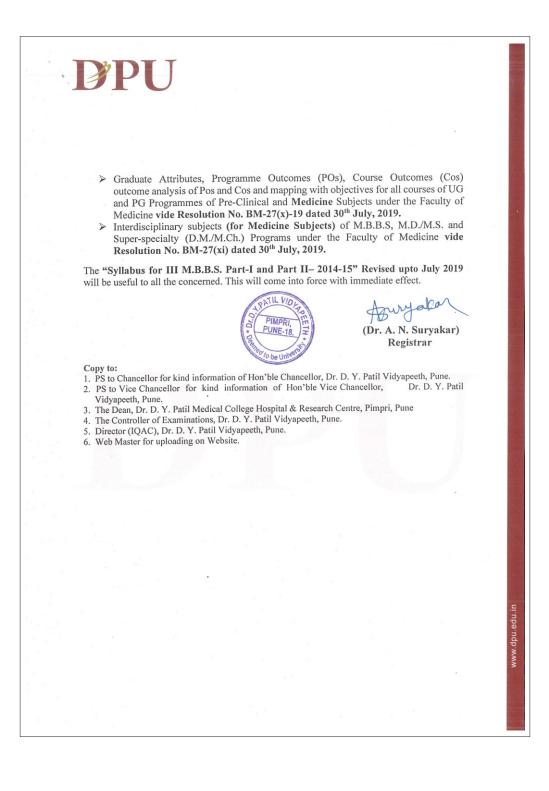


Dr. D.Y. PATIL VIDYAPEETH, PUNE (Deemed to be University)

(Re-accredited by NAAC with a CGPA of 3.62 on a four point scale at 'A' Grade) (An ISO 9001 : 2015 Certified University)

Dr. A. N. Suryakar

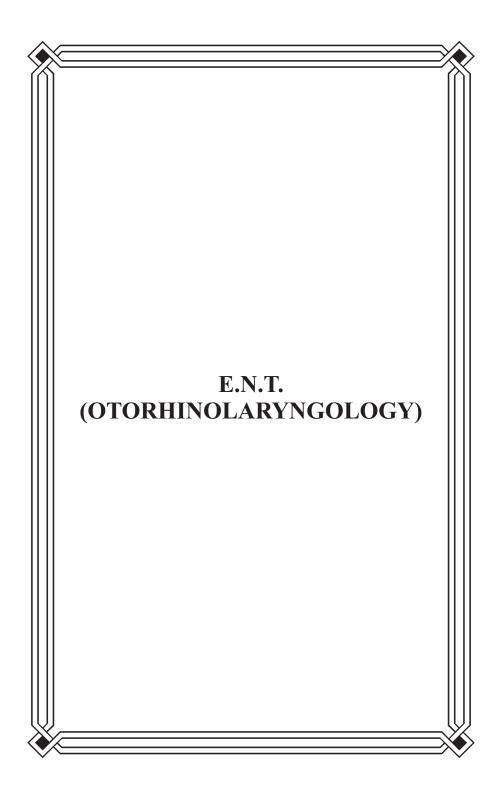




MAPPING OF PROGRAMME OUTCOMES [POs] AND COURSE OUTCOMES [COs] OF MBBS PROGRAMMES

Year III / I				
Course Code	Course Title			
MB301	Community Medicine			
MB302	ENT			
MB303	Ophthalmology			

ENT: (MB302)				
СО	At the end of the course, the	Mapped Programme		
No.	learner should be able to:	Outcomes		
302.1	Basic Pathophysiology of common	PO1,PO2,PO3,PO4,PO5,		
	ENT disease and emergencies.	PO6,PO7,PO8,PO9		
302.2	Rational use of drugs commonly	PO1,PO2,PO3,PO4,PO5,		
	used and their adverse effects	PO6,PO8,PO9		
302.3	Art of communication with	PO1,PO2,PO3,PO5,		
	patients, their relatives and medical	PO6,PO8,PO9		
	social workers			
302.4	Always willing to do some	PO1,PO2,PO3,PO5,		
	innovative things apart from	PO6,PO7,PO8,PO9		
	routine			
302.5	Manage basic ENT problems at	PO1,PO2,PO3,PO5,		
	primary level and be able to refer	PO6,PO7,PO8,PO9		
	whenever necessary			
302.6	Identify the environmental and	PO1,PO2,PO3,PO5,		
	occupational hazard and treat and	PO6,PO7,PO8,PO9		
	treat/control them by participating			
	in campus and national programme			
302.7	Always be a team facilitator and	PO1,PO2,PO3,PO4,PO5,		
	work as a team along with other	PO6,PO7,PO8,PO9		
	members of health care team.			



E.N.T. (OTORHINOLARYNGOLOGY)

1. GOAL

The broad goal of the teaching of undergraduate students in Otorhinolaryngology is that the undergraduate student have acquired adequate knowledge and skills for optimally dealing with common disorders and emergencies and principles of rehabilitation of the impaired haring.

2. OBJECTIVES

a) KNOWLEDGE

At the end of the course, the student should be able to:

- 1. Describe the basic pathophysiology of common ENT diseases and emergencies.
- 2. Adopt the rational use of commonly used drugs, keeping in mind their adverse reactions.
- 3. Suggest common investigative procedures and their interpretation.

b) SKILLS

At the end of the course, the student should be able to:

- 1. Examine and diagnose common ENT problems including the premalignant and malignant disorders of the head and neck.
- 2. Manage ENT problems at the first level of care and be able to refer whenever necessary.
- 3. Assist/carry out minor surgical procedures like ear syringing, ear dressings, nasal packing etc.
- 4. Assist in certain procedures such as tracheostomy, endoscopies and removal of foreign bodies.

c) INTEGRATION

The undergraduate training in ENT will provide an integrated approach towards other disciplines especially neurosciences, ophthalmology and general surgery.

EAR

- 1. Introduction to Otology Anatomy of the external ear including brief embryology
- 2. Anatomy of the middle ear Eustachian tube, middle ear Aditus ad antrum, mastoid antrum, MacEvan's triangle, mastoid air cell system, embryology of the middle ear.
- 3. Anatomy of the Inner ear, role of inner ear in hearing
- 4. Physiology of Hearing.
- 5. Physiology of the Vestibular Apparatus and vestibular function tests
- 6. Audiological evaluation Tuning fork tests, tests for Eustachian tube function, Pure tone audiometry Impedance audiometry, Speech audiometry, BERA
- 7. External ear diseases

Congenital anamolies, traumatic conditions, haematoma auris, avulsion and lacerations of the pin, Foreign body ear.

Inflammatory conditions, otitis externa including classifications of otitis externa, viral infections, furuncle, otomycosis. Miscellaneous conditions like pseudocyst of the pinna, cerumen, keratitis obturans, malignant otitis externa, and neoplastic conditions of the external ear.

- 8. Acute suppurative otitis media and Definition of ASOM, etiopathology, clinical features and management.
- 9. Baro trauma Biomechanics, clinical features management and prevention.
- Acute mastoiditis Definition, etiopathology, clinical features and management and complications
- 11. Eustachian tube dysfunction and secretory otitis media,
- 12. Chronic Otitis media mucosal disease Definition, etiopathology, clinical features, stages, investigations and treatment.
- 13. Chronic Otitis media, squamous disease Definition, etiopathology, clinical features stages, investigations and treatment

- 14. Complications of Chronic Otitis media Extra cranial Mastoid abscess, petrositis, labyrinthitis, facial palsy Intra cranial Meningitis, extradural abscess, subdural abscess, brain abscess, lateral sinus thrombophlebitis, otogenic hydrocephalus.
- 15. Mastoid surgeries
- Otosclerosis Definition, etiopathology, clinical features stages, investigations and treatment
- 17. Anatomy of the facial nerve
- 18. Facial nerve paralsysis Causes, features, management and prevention
- 19. Vertigo Definition, causes, evaluation and management
- 20. Tinnitus Definition, causes, evaluation and management
- 21. Conductive Hearing Loss Etiology, investigations and management
- 22. Sensorineural Hearing Loss Etiology, investigations and management
- 23. Labyrinthitis Serous labyrinthitis, circumscribed labyrinthitis, Suppurative labyrinthitis
- 24. Traumatic condition Fractures of the temporal bone, CSF otorrhoea, perilymph fistula,
- 25. Acoustic trauma and Noise induced Hearing loss
- 26. Meniere's disease Etiology, investigations and management
- 27. Tumors of the ear and the mastoid Glomus tumors, Acoustic neuroma

NOSE

- 1. Anatomy of the nose, vestibule and nasal septum
- 2. Anatomy of the lateral wall of the nose, Nerve supply and Blood supply of the nose
- 3. Anatomy of paranasal sinuses
- 4. Physiology of the nose and paranasal sinuses including olfation
- 5. Radiology of the nose and paranasal sinuses
- 6. Congenital and developmental anomalies Embryology of the nose and paranasal sinuses, External nasal deformities Choanal atresia, cleft lip, cleft palate
- 7. Epistaxis Applied anatomy, etiology, management
- 8. Inflammatory conditions of the Nose Vestibulitis, Furunculosis, Cellulitis, Dangerous area of the face
- Traumatic conditions including fracture of the nasal bones, Fracture of the nasal Septum, Lefort fracture, CSF rhinorrhoea, Foreign body nose, Myiasis
- 10. Deviated nasal septum Etiopathology, clinical features, management, Septoplasty and SMR
- 11. Acute Rhinitis Etiopathology, clinical features, management
- 12. Chronic specific Rhinitis Tuberculosis, Leprosy, Syphilis, Rhinitis medicamentosa, Rhinitis caseosa
- 13. Atrophic Rhinitis, Allergic Rhinitis, Vasomotor Rhintitis.
- 14. Granulomatous diseases of nose Rhinoscleroma, Rhinosporidiosis, and other fungal infections
- 15. Acute Sinusitis Etiopathology, Types, Clinical features, investigations and treatment

- 16. Chronic Sinusitis Etiopathology, Types, Clinical features, investigations and treatment
- 17. Complications of Sinusitis
- Nasal Polyposis Etiopathology, Types, Clinical features, investigations and treatment
- 19. Neoplastic conditions of the nose and paranasal sinuses
- 20. Juvenile Nasal Angiofibroma
- 21. Snoring and Sleep Apnoea Syndrome

LARYNX AND PHARYNX

- 1. Anatomy and Physiology of the Pharynx
- 2. Tonsillitis, Adenoiditis & Adenotonsillectomy
- 3. Neoplasms of nasal Cavity, PNS and Nasopharynx
- 4. Tumours of Oropharynx & miscellaneous diseases of Pharynx
- 5. Anatomy & physiology of larynx
- 6. Acute and Chronic Inflammations of Larynx, Congenital Lesions of Larynx & Laryngotracheal trauma and Stridor
- 7. Laryngeal Paralysis, Voice Disorders and Speech Therapy
- 8. Laryngeal Paralysis, Voice Disorders and Speech Therapy
- 9. Tumours of the Larynx
- 10. Tracheostomy and Airway Management
- 11. Anatomy and Physiology of Oesophagus, Deglutition
- 12. Disorders of Oesophagus & Dysphagia,FB in oesophagus & oesophagoscopy
- 13. Voice and Speech disorders

HEAD AND NECK AND RECENT ADVANCES

- 1. Anatomy of the neck & neck spaces and lymphatic drainage
- 2. Deep neck space infections
- 3. Thyroid gland anatomy and physiology
- 4. Thyroid swellings and surgeries
- 5. Metastatic neck disease and neck dissections
- 6. Salivary glands
- 7. AIDS and Lasers in ENT
- 8. Radiotherapy and chemotherapy

EXAMINATION PATTERN

TITLE	:
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Total Mark	ks :	40
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Date : Time :

Instructions :

1) All questions are compulsory.

2) Use separate answer books for Sections A and Section B.

3) Draw neat labeled diagrams and flow chart WHEREVER necessary.

4) Figures on the right indicate marks.

Time Allowed: 2.00 Hrs.

SECTION A

Q. No. 1. One Line Answer Questions (8 out of 10)	(8 x 1)	8
1	1	
2	l	
5. 10.	1	
Q. No. 2. Long Answer Questions (2 out of 3)	(2 x 7)	14
SECTION B		
Q. No. 3. Short Answer Questions (6 out of 8)	(6 x 3)	18