

Department of ENT & HNS

MUZAFFARNAGAR MEDICAL COLLEGE

Learning Objectives (At completion of phase 3- part - I)

Competency	Domains	Levels	Specific Learning Objectives	T-L Method	Assessment
EN 4.1 – Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Otolgia	K/S	SH	<ol style="list-style-type: none">1. Describe Otolgia2. Describe the causes of otalgia3. Investigations for diagnosis, management of otalgia	Lecture, Small group discussion, DOAP session, Bedside clinic	Written/Viva Voce/ Skill assessment
EN 4.2 – Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of disease of the external Ear	K/S	SH	<ol style="list-style-type: none">1. Enumerate the disease of the pinna2. Enumerate the disease of external Auditory canal3. Enumerate the disease of tympanic membrane4. Management of disease of the pinna5. Management of disease of external Auditory canal6. Management disease of tympanic membrane	Lecture, Small group discussion, DOAP session, Bedside clinic	Written/Viva Voce/ Skill assessment
EN 4.3 – Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of ASOM	K/S	SH	<ol style="list-style-type: none">1. Define Asom2. Discuss Aetiology, clinical features stages, management Asom	Lecture, Small group discussion, DOAP session, Bedside clinic	Written/Viva Voce/ Skill assessment

EN 4.4 – Demonstrate the correct technique to hold visualize and assess the mobility of the tympanic membrane and its mobility and interpret and diagrammatically represent the findings	K/S/A	SH	<ol style="list-style-type: none"> 1. Normal landmark of tympanic membrane 2. Method to check the mobility of tympanic membrane By segle's speculum 3. Interpretation of tympanic membrane disease related to mobility 	Clinical, Demonstration	Written/Viva Voce/ Skill assessment
EN 4.5 – Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of OME	K/S	SH	<ol style="list-style-type: none"> 1. Define OME 2. Discuss Aetiology, clinical features, investigation management 	Lecture, Small group discussion, DOAP session, Bedside clinic	Written/Viva Voce/ Skill assessment
EN 4.6 – Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Discharging ear	K/S	SH	<ol style="list-style-type: none"> 1. Causes of ear discharge 2. Types of Ear discharge 3. Colour of Ear discharge 4. Differential diagnosis of Ear discharge 5. Management of Ear discharge 	Lecture, Small group discussion, DOAP session, Bedside clinic	Written/Viva Voce/ Skill assessment
EN 4.7 – Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of CSOM	K/S	SH	<ol style="list-style-type: none"> 1. Define Csom 2. Discuss types of Csom 3. Differences between different type Csom 4. Management of Csom including investigations 	Lecture, Small group discussion, DOAP session, Bedside clinic	Written/Viva Voce/ Skill assessment
EN 4.8 – Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of squamosal type of CSOM	K/S	SH	<ol style="list-style-type: none"> 1. What is squamosal type of Csom 2. Theories of squamosal type of Csom 3. Complication associated with squamosal type of Csom 4. Clinical features, investigations 	Lecture, Small group discussion, DOAP session, Bedside clinic	Written/Viva Voce/ Skill assessment

			management squamosal type of Csom		
EN 4.9 – Demonstrate the correct technique for syringing wax from the ear in a simulated environment	S	SH	<ol style="list-style-type: none"> 1. What is wax 2. Describe problems when wax collected in ear 3. Methods of removal of wax 	DOAP session	Skill assessment
EN 4.10 – Observe and describe the indications for and steps involved in myringotomy and myringoplasty	S	KH	<ol style="list-style-type: none"> 1. Define myringotomy, 2. Define myringoplasty 3. Discuss types of myringotomy 4. Discuss types of myringoplasty 5. Discuss technique of myringoplasty 6. Discuss technique of myringotomy 	DOAP session	Written/Viva Voce
EN 4.11 – Enumerate the indications describe the steps and observe a mastoidectomy	K/S	KH	<ol style="list-style-type: none"> 1. What is mastoidectomy 2. Indications of mastoidectomy 3. Describe types of mastoidectomy 4. Discuss the method of mastoidectomy 	DOAP session	Written/Viva Voce
EN 4.12 – Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Hearing of loss	K/S	SH	<ol style="list-style-type: none"> 1. What are the different types of Hearing loss 2. Investigations, clinical features their interpretation in case of Hearing loss 3. Management patient with Hearing loss 	Lecture, Small group discussion, DOAP session, Bedside clinic	Written/Viva Voce/ Skill assessment
EN 4.13 – describe the clinical features, choose the correct investigations and describe the principles of management of Otolocrosis	K	KH	<ol style="list-style-type: none"> 1. Define Otolocrosis 2. Discuss clinical features, investigation in a case of otoclorosis 3. Management patient with 	Lecture, Small group discussion, DOAP session, Bedside clinic	Written/Viva Voce/ Skill assessment

			otoclorosis		
EN 4.14 – describe the clinical features, choose the correct investigations and describe the principles of management of Sudden Sensorineural Hearing loss	K	KH	<ol style="list-style-type: none"> 1. Defination of SSNHL 2. Discuss clinical features, investigation in a case of SSNHL 3. Discuss different modility of treatment for SSNHL 	Lecture, Small group discussion, DOAP session, Bedside clinic	Written/Viva Voce/ Skill assessment
EN 4.15 – describe the clinical features, choose the correct investigations and describe the principles of management of Noise Induced Hearing loss	K	KH	<ol style="list-style-type: none"> 1. Discuss clinical features, investigation in case of noise induced Hearing loss 2. Management of a case of Noise induced Hearing loss 	Lecture, Small group discussion, DOAP session, Bedside clinic	Written/Viva Voce/ Skill assessment
EN 4.16 – Observe and describe the indications for and steps involved in the performance of pure tone audiometry	S	KH	<ol style="list-style-type: none"> 1. Define PTA 2. Different types of PTA 3. Discuss how to perform PTA 	DOAP session	Written/Viva
EN 4.17 – Enumerate the indications and interpret the results of an audiogram	S	SH	<ol style="list-style-type: none"> 1. Describe indications of PTA 2. Discuss the interpretation of PTA 	DOAP session	Skill assessment
EN 4.18 – describe the clinical features, choose the correct investigations and describe the principles of management of Facial Nerve palsy	K	KH	<ol style="list-style-type: none"> 1. Discuss anatomy of Facial nerve 2. Clinical features, investigation in case of facial nerve paralysis 3. How to chech the site of lesions in case of facial nerve paralysis 4. Landmarks to prevent facial nerve damage during different surgery 5. Discuss the management of facial nerve palsy 	Lecture, Small group discussion, DOAP session, Bedside clinic	Written/Viva Voce/ Skill assessment

EN 4.19 – describe the clinical features, choose the correct investigations and describe the principles of management of Vertigo	K	KH	<ol style="list-style-type: none"> 1. Define Vertigo 2. Discuss the causes of Vertigo 3. Discuss the clinical features, investigations in a case of vertigo 4. Discuss the management in a case of vertigo 	Lecture, Small group discussion, DOAP session, Bedside clinic	Written/Viva Voce/ Skill assessment
EN 4.20 – describe the clinical features, choose the correct investigations and describe the principles of management of Meniere's Disease	K	KH	<ol style="list-style-type: none"> 1. Describe classical symptoms of Meniere's disease 2. Discuss clinical features, investigation in a case of Meniere's disease 3. Discuss management of case of Meniere's disease 	Lecture, Small group discussion, DOAP session, Bedside clinic	Written/Viva Voce/ Skill assessment
EN 4.21 – describe the clinical features, choose the correct investigations and describe the principles of management of Tinnitus	K	KH	<ol style="list-style-type: none"> 1. Define Tinnitus 2. Discuss the causes of Tinnitus 3. Discuss clinical features, investigation management of Tinnitus 	Lecture, Small group discussion, DOAP session, Bedside clinic	Written/Viva Voce/ Skill assessment
EN 4.22 – Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of squamosal type of Nasal Obstruction	K/S	SH	<ol style="list-style-type: none"> 1. Describe clinical features, in a case of squamosal types of nasal obstruction 2. Causes of squamosal type of nasal obstruction 3. Discuss the management of squamosal type of nasal obstruction 	Lecture, Small group discussion, DOAP session, Bedside clinic	Written/Viva Voce/ Skill assessment
EN 4.23 - Describe the Clinical features, investigations and principles of management of DNS	K	KH	<ol style="list-style-type: none"> 1. Describe the Anatomy of Nasal Septum 2. Discuss the etiology. 3. List the type of DNS. 	Lecture, Small group discussion, Demonstration	Written/Viva Voce/ Skill assessment

			4. Discuss the clinical features, treatment of DNS.		
EN 4.24 - Enumerate the indications observe and describe the steps in a septoplasty	K/S	KH	<ol style="list-style-type: none"> 1. List of indication of septoplasty 2. Identity contraindication instrument. 3. Describe the step of septoplasty. 4. Enumerate complication. 	DOAP session	Written/Viva voce
EN 4.25 – Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of squamosal type of Nasal Polyps	K/S	SH	<ol style="list-style-type: none"> 1. Elicit <ul style="list-style-type: none"> • Document • Present history of a case of nasal Polyposis. 2. Demonstrate examination of nasal Polyps. 3. Describe Clinical features, investigation, treatment of nasal Polyps. 4. Differentiate Antrochoanal, ethmoid Polyps. 	Lecture, Small group discussion, DOAP session, Bedside clinic	Written/Viva voce/ Skill assessment
EN 4.26 – Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of squamosal type of Adenoid	K/S	SH	<ol style="list-style-type: none"> 1. Elicit documents, present history of a case of Adenoid. 2. Demonstrate examination of adenoid. 3. Described clinical features, investigation, treatment of adenoid. 	Lecture, Small group discussion, DOAP session, Bedside clinic	Written/Viva voce/ Skill assessment
EN 4.27 – Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of	K/S	SH	<ol style="list-style-type: none"> 1. Elicit documents, present history of a case of allergic Rhinitis. 2. Demonstrate examination of allergic Rhinitis. 	Lecture, Small group discussion, DOAP session, Bedside clinic	Written/Viva voce/ Skill assessment

squamosal type of Allergic Rhinitis			3. Described clinical features, investigation, treatment of allergic rhinitis.		
EN 4.28 – Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of squamosal type of Vasomotor Rhinitis	K/S	SH	<ol style="list-style-type: none"> 1. Elicit document, present of a case of vasomotor rhinitis. 2. Demonstrate examination of vasomotor rhinitis. 3. Describe clinical features, investigation, treatment of vasomotor rhinitis. 	Lecture, Small group discussion, DOAP session, Bedside clinic	Written/Viva voce/ Skill assessment
EN 4.29 – Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of squamosal type of Acute & Chronic Rhinitis	K/S	SH	<ol style="list-style-type: none"> 1. Elicit document, present of a case of Acute/Chronic Rhinitis 2. Demonstrate examination of Acute/Chronic Rhinitis. 3. Describe, clinical features, investigation, treatment of Acute/Chronic Rhinitis. 	Lecture, Small group discussion, DOAP session, Bedside clinic	Written/Viva voce/ Skill assessment
EN 4.30 – Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of squamosal type of Epistaxis.	K/S	SH	<ol style="list-style-type: none"> 1. Elicit document, present of a case of epistaxis 2. Demonstrate examination of epistaxis 3. Describe, clinical features, investigation, treatment of epistaxis 	Lecture, Small group discussion, Demonstration	Written/Viva voce/ Skill assessment
EN 4.31 - Describe the Clinical features, investigations and principles of management of trauma of the face & neck.	K/S	KH	<ol style="list-style-type: none"> 1. List the various type of fracture of face/neck 2. Describe the clinical feature, investigation, treatment of fracture of face/neck 	Lecture, Small group discussion, Demonstration	Written/Viva voce
EN 4.32 - Describe the Clinical features, investigations and principles of management of nasopharyngeal	K	KH	<ol style="list-style-type: none"> 1. Discuss he etiology, site of origin of Nasopharngal Angiofibroma 	Lecture, Small group discussion, Demonstration	Written/Viva voce

Angiofibroma.			2. Describe the clinical features, investigation, treatment of nasopharyngeal Angiofibroma		
EN 4.33 – Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of squamousal type of Acute & Chronic Sinusitis.	K/S	SH	1. Elicit, document, present of a case of Acute/chronic sinusitis 2. Demonstrate examination of Acute/ Chronic Sinusitis 3. Describe, clinical features, investigation, treatment of Acute/Chronic Sinusitis	Lecture, Small group discussion, Demonstration	Written/Viva voce/ Skill assessment
EN 4.34 - Describe the Clinical features, investigations and principles of management of Tumors of Maxilla.	K	KH	1. Describe, clinical features, investigation, treatment of tumors of maxilla 2. Demonstrate examination of tumors of maxilla	Lecture, Small group discussion, Demonstration	Written/Viva voce
EN 4.35 - Describe the Clinical features, investigations and principles of management of Tumors of Nasopharynx.	K	KH	1. Describe, clinical features, investigation, treatment of tumors of nasopharynx 2. Discuss the etiology of tumor of nasopharynx 3. Demonstrate examination of tumor of nasopharynx	Lecture, Small group discussion, Demonstration	Written/Viva voce/ Skill assessment
EN 4.36 - Describe the Clinical features, investigations and principles of management of Salivary glands	K	KH	1. Discuss the etiology of disease of salivary gland 2. Describe the clinical features, investigation, treatment of salivary gland 3. Demonstrate the examination of salivary gland	Lecture, Small group discussion, Demonstration	Written/Viva voce/ Skill assessment
EN 4.37 - Describe the Clinical features, investigations and principles of management of Ludwig's angina	K	KH	1. Discuss etiology of Ludwig angina 2. Describe the clinical features,	Lecture, Small group discussion, Demonstration	Written/Viva voce/ Skill assessment

			investigation, treatment of Ludwig angina 3. Demonstrate the examination of Ludwig angina		
EN 4.38 – Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of type of dysphagia	K/S	SH	1. Elicit, document, present of a case of dysphagia 2. Demonstrate examination of dysphagia 3. Describe the clinical features, investigation, treatment of dysphagia	Lecture, Small group discussion, Demonstration	Written/Viva voce/ Skill assessment
EN 4.39 – Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of squamosal type of Acute & Chronic Tonsillitis	K/S	SH	1. Elicit /Document/Present history, examination of a case of acute tonsillitis 2. Elicit /Document/Present history, examination of a case of Chronic tonsillitis 3. Describe the type, Clinical features, etiology investigation, treatment of acute tonsillitis 4. Discuss d/d of acute membranous tonsillitis	Lecture, Small group discussion, DOAP session, Bedside clinic	Written/Viva voce/ Skill assessment
EN 4.40 – Observe and describe the indications for and steps involved in a tonsillectomy / adenoidectomy	S	KH	1. Enumerate the indications, contraindications of tonsillectomy/ adenoidectomy 2. Identify the instruments used in surgery 3. Describe the steps of tonsillectomy /adenoidectomy 4. Discuss the complications of surgery	DOAP session	Written/Viva voce

<p>EN 4.41 – Describe the clinical features, investigations and principles of management of Acute & chronic abscesses in relation to Pharynx</p>	<p>K/S</p>	<p>KH</p>	<ol style="list-style-type: none"> 1. Describe important spaces in relation to pharynx 2. Enumerate abscesses in relation to Pharynx 3. Describe the Clinical features investigation, treatment of quinsy 4. Describe the Clinical features investigation, treatment of retropharyngeal abscess 5. Describe the Clinical features investigation, treatment of parapharyngeal abscess 	<p>Lecture, Small group discussion, Demonstration</p>	<p>Written/Viva voce</p>
<p>EN 4.42 – Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of hoarseness of voice</p>	<p>K/S</p>	<p>SH</p>	<ol style="list-style-type: none"> 1. Describe the Clinical features treatment of phonoaesthesia 2. Enumerate causes of rhinolalia clausa 3. Enumerate causes rhinolalia aperta 4. Enumerate causes of hoarseness of voice 5. Discuss approach to a case of hoarseness of voice 6. Describe the Clinical features, investigation treatment of dysphasia plica venricularis 7. Describe the Clinical features, investigation treatment of puberphonia 8. Describe the Clinical features, investigation treatment of rhinolalia clausa 	<p>Lecture, Small group discussion, DOAP session, Bedside clinic</p>	<p>Written/Viva voce/ Skill assessment</p>

			9. Describe the Clinical features, investigation treatment of rhinolalia aperta		
EN 4.43 – Describe the clinical features, investigations and principles of management of Acute & chronic Laryngitis	K	KH	<ol style="list-style-type: none"> 1. Identity common inflammatory conditions of larynx 2. Describe the Clinical features, investigation treatment of acute laryngotracheo bronchitis 3. Describe the Clinical features, investigation treatment of laryngeal diphtheria 4. Describe the Clinical features, investigation treatment of acute laryngitis 5. Describe the Clinical features, investigation treatment of chronic laryngitis 6. Describe the Clinical features, investigation treatment of acute epiglottitis 7. Describe the Clinical features, investigation treatment of Reinke's edema 8. Describe the Clinical features, investigation treatment of Atrophic laryngitis 9. Describe the Clinical features, investigation treatment of Tuberculosis of larynx 10. Differentiate between acute 	Lecture, Small group discussion, Demonstration	Written/Viva voce

			epiglottitis and acute laryngotracheo bronchitis		
EN 4.44 – Describe the clinical features, investigations and principles of management of Benign lesions of the vocal cord	K	KH	<ol style="list-style-type: none"> 1. Enumerate common benign lesions of vocal cord 2. Describe the Clinical features, investigation treatment of vocal nodules 3. Describe the Clinical features, investigation treatment of laryngocele 4. Describe the Clinical features, investigation treatment of laryngeal papilloma 	Lecture, Small group discussion, Demonstration	Written/Viva voce
EN 4.45 – Describe the clinical features, investigations and principles of management of Vocal cord palsy	K	KH	<ol style="list-style-type: none"> 1. Discuss nerve supply of larynx 2. Enumerate causes of laryngeal palsy 3. Describe the Clinical features, investigation treatment of Unilateral recurrent laryngeal nerve paralysis 4. Describe the Clinical features, investigation treatment of Bilateral recurrent laryngeal nerve 5. Describe the Clinical features, investigation treatment of Unilateral superior laryngeal nerve paralysis 6. Describe the Clinical features, investigation treatment of Bilateral superior laryngeal nerve paralysis 	Lecture, Small group discussion, Demonstration	Written/Viva voce/ Skill assessment

			<ol style="list-style-type: none"> 7. Describe the Clinical features, investigation treatment of complete laryngeal paralysis 8. Discuss thyroplasties 		
EN 4.46 – Describe the clinical features, investigations and principles of management of Malignancy of the Larynx & Hypopharynx	K	KH	<ol style="list-style-type: none"> 1. Classify Cancer larynx 2. Describe clinical features, investigations required, treatment of Cancer supra glottis larynx 3. Describe clinical features, investigations, treatment of Cancer glottis 4. Describe clinical features, investigations, treatment of Cancer sub glottis 5. Describe clinical features, investigations, treatment of Cancer hypo pharynx 6. Discuss vocal rehabilitation after total Laryngectomy 	Lecture, Small group discussion, Demonstration	Written/Viva voce/ Skill assessment
EN 4.47 – Describe the clinical features, investigations and principles of management of Stridor	K	KH	<ol style="list-style-type: none"> 1. Enumerate / classify causes of stridor 2. Discuss management including investigation of various causes of stridor 	Lecture, Small group discussion, Demonstration	Written/Viva voce/ Skill assessment
EN 4.48 – Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Airway Emergencies	S	SH	<ol style="list-style-type: none"> 1. List airway emergencies 2. Document history examination of patient with airway emergencies 3. Describe clinical features, investigations, treatment of laryngotracheal trauma 	Lecture, Small group discussion, Demonstration	Written/Viva voce/ Skill assessment

			4. Describe approach to a case of airway emergencies		
EN 4.49 – Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of foreign bodies in the air & food passages	S	SH	<ol style="list-style-type: none"> 1. Elicit history of foreign bodies of aerodigestive tract 2. List clinical features of foreign body ingestion & inhalation 3. Discuss management including investigation of foreign body esophagus airway 4. Identify foreign body in X-rays 	Lecture, Small group discussion, Demonstration	Written/Viva voce/ Skill assessment
EN 4.50 – Observe and describe the indications for and steps involved in tracheostomy	S	KH	<ol style="list-style-type: none"> 1. List indications of tracheostomy 2. Enumerate functions of tracheostomy 3. List complications of tracheostomy 	DOAP session	Written/Viva voce
EN 4.51 – Observe and describe the care of the patient with a tracheostomy	S	KH	<ol style="list-style-type: none"> 1. Identify types of tracheostomy tubes 2. Identify instruments used in tracheostomy 3. Document tracheostomy care 	DOAP session	Written/Viva voce
EN 4.52 – Describe the clinical features, investigations and principles of management of Oesophagus	K	ENT	<ol style="list-style-type: none"> 1. List common esophageal disorders 2. Discuss the etiology, clinical features, investigation treatment of esophageal perforation 3. Discuss the etiology, clinical features,, management including investigation of corrosive burns of esophagus 4. Discuss the etiology, clinical 	Lecture, Small group discussion, Demonstration	Written/Viva voce/ Skill assessment

			<p>features, management including investigation of stricture esophagus</p> <ol style="list-style-type: none"> 5. Discuss the types, clinical features, investigation of hiatus hernia 6. Discuss the clinical features, investigation, treatment of Plummer Vinson syndrome 7. List clinical features, treatment of globus Hystericus 8. Enumerate mobility disorders of esophagus 9. Discuss the clinical features, management including investigations of cardiac achalasia 10. Discuss the etiology, spread, clinical features, investigation treatment of carcinoma esophagus 		
EN 4.53 – Describe the clinical feature, investigations and principles of management of HIV manifestations of the ENT	K	KH	<ol style="list-style-type: none"> 1. Enumerate ENT manifestationS of AIDS 2. Discuss modes of transmission of AIDS 3. List the investigations for diagnosis of AIDS 4. Discuss the management of AIDS 	Lecture, Small group discussion, Demonstration	Written/Viva voce/ Skill assessment