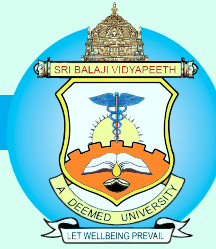


SRI BALAJI

ACCREDITED BY NAAC
WITH 'A' GRADE



VIDYAPEETH

DEEMED TO BE UNIVERSITY
DECLARED U/S 3 OF THE UGC ACT, 1956

NIRF - INDIA RANKINGS 2019 : 72 among Universities in India

FELLOWSHIP IN OTOLOGY

Department of ENT

SYLLABUS & REGULATIONS



2019-2020 ONWARDS

(As Approved in the Academic Council at the Meeting held on 22.05.2019)

**Sri Balaji Vidyapeeth
Mahatma Gandhi Medical College & Research Institute**

DEPARTMENT OF ENT

FELLOWSHIP IN OTOLOGY

2019-2020



DEPARTMENT OF ENT

Fellowship in OTOLOGY

2019-2020 Onwards

**Sri Balaji Vidyapeeth
Mahatma Gandhi Medical College & Research Institute**

SYLLABUS FOR FELLOWSHIP IN OTOTOLOGY

Sl no	Specific Learning Objectives
	At the end of the courses, the candidates will be able to:
1.	This course will enable the participants to develop skills in doing basic otology procedures and peruse a carrier as competent otologists.
2.	This course will give adequate exposure in both clinical and research work in the field of otology.
3.	This course will provide adequate exposure for the participants with basic otology Emergencies and how to treat them.

S no	Theory Syllabus	TL strategy	Number of hours	Credits

1.	<p>I. SPECIALISED KNOWLEDGE - the trainee will be expected to have in-depth knowledge in the following areas:</p> <p>BASIC SCIENCES: -</p> <ol style="list-style-type: none"> 1. Anatomy, Ultra structure of Human Ear. 2. Pathophysiology of Ear 3. Physiology & Reception of Speech. 4. Surgical Anatomy of Skull Base. 5. Clinical Neuro-Anatomy. 6. Imaging & Radiology in otological diseases 7. Principles of Radiotherapy in Head & Neck Cancer. 8. Principles of Chemotherapy in Head & Neck Cancer. 9. Principles & Use of Nuclear Medicine. 10. Principles of Laser Surgery. 11. Intensive & High Dependency Care 12. Anaesthesia in ENT & HEAD, NECK Surgery. 	Direct Contact Sessions	104 Hours	7 Credits
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	<p>13. Biomaterials.</p> <p>14. Medical Negligence in Otorhinolaryngology.</p> <p>OTOLOGY:</p> <ol style="list-style-type: none">1. Aetiopathology of Inflammatory Conditions of External & Middle Ear.2. Pathology of Cochlea.3. Pathology of Vestibular System.4. Diseases of External Ear.5. Ear Trauma.6. Plastic Surgery of the Ear.7. Acute Suppurative Otitis Media.8. Management of Acute Suppurative Otitis Media9. Chronic Suppurative Otitis Media.10. Management of Chronic Suppurative Otitis Media.11. Reconstruction of the Ear.12. Complication of Suppurative Otitis Media.13. Otalgia.			
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	<p>14. Otosclerosis.</p> <p>15. Diseases of Temporal Bone.</p> <p>16. Sensorineural Hearing Loss.</p> <p>17. Sudden & Fluctuant Sensorineural Hearing Loss.</p> <p>18. Vertigo.</p> <p>19. Meniere's disease.</p> <p>20. Ototoxicity.</p> <p>21. Vestibular Schwannoma.</p> <p>22. Epithelial Tumours of External Auditory Meatus.</p> <p>23. Glomus & Other Tumours of the Ear.</p> <p>24. Disorders of Facial Nerve.</p> <p>25. Surgery of the Vestibular System.</p> <p>26. Cochlear Implants.</p> <p>27. Presbycusis.</p> <p>28. Implantable Hearing Devices.</p> <p>AUDIOLOGY</p> <p>1. Basic and Advanced Audiological testing - overview</p>			
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	<p>2. Etiology of Audiological Disorders</p> <p>3. Identification and Differential diagnosis of auditory disorders</p> <p>4. Middle ear disorders</p> <p>5. Inner ear disorders (including NIHL, Meniere disease, Otonicity, presbycusis)</p> <p>6. Neuro Audiology</p> <p>7. Identification, Differential diagnosis and management of</p> <p>8. Auditory neuropathy and other conditions AV nerve</p> <p>9. Central auditory disorders</p> <p>10. Pediatric Audiological assessment (including Infants and Children) - interpretation of information obtained from Behavioral Electrophysiology assessment procedure</p> <p>11. Screening for Hearing Disorders</p> <p>12. Neonatal Hearing Screening</p> <p>13. Screening for Middle ear</p>			
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	<p>Disorders</p> <p>14. Self assessments of Hearing Handicap</p> <p>15. Aural Rehab</p> <p>16. Candidacy for hearing aids indication and contra indications</p> <p>17. Recent trends in the Hearing technology</p> <p>18. Assessing benefits of Hearing Aids</p> <p>19. Implantable devices (Cochlear implant and middle ear implants)</p> <p>20. Candidacy, audiological assessments and post surgical management including Rehab</p> <p>21. Prevention of Hearing Loss</p> <p>22. Strategies of prevention</p> <p>23. National Government programs for prevention of deafness and other Welfare measures for hearing impaired</p> <p>24. Noise and its effects on the ear</p> <p>25. Assessing noise inducing hearing loss</p> <p>26. Hearing conservation</p>			
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- 27. Tinnitus
- 28. Tinnitus evaluation
- 29. Tinnitus restraining therapy
- 30. Overview of balances disorders - causes, evaluation and prevention

PAEDIATRIC OTOLOGY

- 1. Genetic Factors & Deafness.
- 2. The Causes of Deafness.
- 3. Testing Hearing in Children.
- 4. Screening & Surveillance for Hearing Impairment in Preschool Children.
- 5. Otitis Media with Effusion.
- 6. Acute Suppurative Otitis Media in Children.
- 7. Chronic Suppurative Otitis Media in Children.
- 8. Surgery of Congenital Abnormalities of the External & Middle Ear.
- 9. Management of Hearing Impaired Child.

	<p>10. Cochlear Implantation in Children.</p> <p>11. Vestibular Disorders in Children.</p> <p>12. Speech & Language.</p> <p>13. Foreign Bodies in the Ear</p>			
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S no	Practical Syllabus	Number of hours	Credits
1	Temporal bone dissections: a minimum of 5 dry bones and 5 wet bones will have to be dissected.	128 Hours	4 Credits

S no	Clinical Syllabus	Number	Credits
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		of hours	
1.	<p>SKILLS - the trainee will be expected to have acquired skills in at least the following domains:</p> <p>A. Clinical Skills</p> <p>i. Clinical examination</p> <p>ii. Surgical Skills- Should assist in all otologic surgeries and imbibe the nuances of tissue handling, instrumentation and decision making in the operating theatre. Should be committed to post operative care and counselling directed towards better outcomes of the treatment.</p> <p>iii. Should be trained in the use of endoscopes in Otology and neuro otology</p> <p>B. Diagnostic Skills</p> <p>i. Audiological Use and interpretation of results of audiological investigations with reference to diagnostics and rehabilitation imaging Role of specialized investigations, e.g. MRI, CT, DSA etc. Interpretation of acute otological conditions.</p> <p>ii. Laboratory medicine Ordering and interpretation of common</p>	480 Hours	15 Hours

	<p>investigations.</p> <p>iii. Microbiology Common bacteriological implications in otological diseases.</p> <p>Role of investigation, interpretation of clinical and laboratory information.</p> <p>Investigation of sensori neural hearing loss.</p>		
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S no	Assignments/ Projects/ Self-Study	Number of hours	Credits
1.	E-Portfolio	128 Hours	4 Credits
2.	Self Study	480 Hours	15 Credits

S no	Assessment method (FORMATIVE)	Eligibility requirement
1.	360 ⁰ Assessment from faculty and patients.	Positive feedbacks.

S no	Assessment method (SUMMATIVE)	Maximum marks	Eligibility requirement
1.	Assignment	30	18
2.	Portfolio	30	18
3.	Test	40	24
	Total	100	60

S no	Reference Books/ Journals
1.	<p>TEXTBOOKS</p> <ol style="list-style-type: none"> 1. Scott-Browns Otolaryngology-Seventh edition (2007) 2. Paparella Otolaryngology-Third edition 3. Shambaugh/Glasscock - Surgery of Ear - Fifth edition 4. Otologic surgery Derald E Brackmann and others- Second edition (2001) 5. Manual of Middle ear Surgery Mirko Toss (2001) 6. Manual of Middle ear Surgery by Ugo Fisch 7. Gelfand, S. A. (2007). Essentials of Audiology (2nd ed.). New York: Thieme Medical Publishers. 8. Hall, J.W., & Mueller, H.G., (1997). Audiologist`s Desk Reference (Vol 1). San Diego: Singular Publishing Group. 9. Hall, J.W., & Mueller, H.G., (1997). Audiologist`s Desk Reference (Vol 2). San Diego: Singular Publishing Group. 10. Katz, J. (Ed.). Handbook of Clinical Audiology. (5th ed.). Baltimore: Williams & Wilkins Company. 11. Lipscomb, D.M. (1994). Hearing Conservation in Industry, Schools and the Military. San Diego: Singular Publishing Group. <p>2.</p> <ol style="list-style-type: none"> 12. Northern, J.L., & Downs, M.P. (1984). Hearing in Children (3rd ed.). Baltimore: William & Wilkins. <p>JOURNALS</p> <ol style="list-style-type: none"> 1. Indian Journal of Otolaryngology and Head neck Surgery. 2. American Journal of Otology &Neurotology.

3. Journal of Laryngology & Otology.
4. Laryngoscope.
5. Annals of Otorhinolaryngology.
6. Archives of Otorhinolaryngology.
7. Otolaryngology Clinics of North America.
8. Otology & Neurotology.
9. Laryngology & Otology.
10. Otolaryngology Head and Neck Surgery.
11. Archives of Otolaryngology-Head & Neck Surgery.
12. Annals of Otology, Rhinology & Laryngology.
13. American journal of Otololaryngology
14. Acta Oto- Laryngologica.
15. Asian Journal of Ear, Nose and Throat
16. Ear and Hearing.
17. Journal of Speech Language and Hearing Research.
18. American journal of Speech-Language Pathology.
19. Seminars in Hearing.
20. Seminars in Speech and Language.
21. American journal of Audiology.
22. International Journal of Audiology.

3.

DATABASES AND SEARCH ENGINES

Internet Grateful Med

PubMed

ISI Citation Database

OMIM

Medical Photographic Library

4.	<p>Images from the History of Medicine</p> <p>Grand rounds and lecture notes on various topics</p> <p>Other Resources</p> <p>Biomednet</p> <p>Internet Tutorials</p> <p>Medscape</p>
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SEB V