Department of OTORHINOLARYNGOLOGY/ ENT

S.No	Name of the Fellowship	Eligibility	Duration	Fee(₹)
01	Fellowship in Otology	MS/DNB ENT	1 yr	1,00,000
02	Fellowship in Rhinology	MS/DNB ENT	1 yr	1,00,000
03	Fellowship in Pediatric Otorhinolaryngology	MS/DNB ENT	1 yr	1,00,000
04	Fellowship in Cochlear Surgery	MS/DNB ENT	1 yr	1,00,000
05	Fellowship in Allergology	MS/DNB ENT	1 yr	1,00,000
06	Fellowship in Laryngology	MS/DNB ENT	1 yr	1,00,000
07	Fellowship in Head & Neck Surgery	MS/DNB ENT, Gen surg	1 yr	1,00,000

Fellowship in Otology

Course Overview

The Fellowship in Otology is a one-year advanced program designed for healthcare professionals who wish to specialize in the diagnosis and management of ear diseases, including hearing loss, balance disorders, and ear surgery. This fellowship provides comprehensive knowledge and hands-on experience in the medical and surgical treatment of otological conditions. The course focuses on enhancing practical skills, knowledge of ear anatomy, patient care, and the latest advancements in otology, including hearing restoration and middle ear surgery.

Prerequisites

Criteria	Details
Eligibility	MBBS or equivalent degree in medical field (ENT, Audiology, or General Medicine)
Duration	1 Year
Mode of Study	Clinical, Theoretical, Hands-on Training
Assessment	Theory, Practical Exams, Clinical Logbook, Research Project

Course Objectives

- Master advanced diagnostic techniques in otology, including audiological assessments and imaging.
- Develop proficiency in managing hearing loss, balance disorders, and ear infections.
- Understand the surgical interventions in otology, including cochlear implants and tympanoplasty.
- Gain expertise in the treatment of pediatric and adult ear conditions.
- Improve patient consultation and communication skills to create individualized treatment plans.
- Engage in research to explore new methodologies in otology and hearing restoration.
- Stay updated on the latest advancements in ear diseases, treatments, and technologies.

Curriculum with Semester-wise Syllabus & Modules

Semester 1: Fundamentals of Otology

Module	Topics Covered
Introduction to Otology	History and evolution of otology, basic principles, and ethical considerations
Ear Anatomy and Physiology	Detailed anatomy and function of the outer, middle, and inner ear
Audiological Assessments	Techniques in audiometry, tympanometry, and otoacoustic emissions
Hearing Loss and Its Management	Classification, causes, and management strategies for hearing loss
Ear Infections and Disorders	Medical treatment and management of otitis media, otitis externa, and other infections
Clinical Rotations & Hands-on Training	Observation and hands-on experience in diagnosis and medical management of ear conditions

Semester 2: Advanced Otology Techniques and Research

Module	Topics Covered
Surgical Interventions in Otology	Tympanoplasty, mastoidectomy, and cochlear implantation procedures
Balance Disorders and Vestibular Testing	Diagnostic techniques for vertigo and management of vestibular disorders
Pediatric Otology	Management of ear diseases in children, including congenital hearing loss
Cochlear Implants & Hearing Aids	Indications, fitting, and follow-up care for hearing aids and cochlear implants
Advanced Techniques in Otology	Endoscopic ear surgery, minimally invasive techniques, and newer technologies
Research Project & Case Studies	Literature review, clinical case presentations, and preparation of research dissertation

Program Outcomes

Sr. No.	Program Outcome	Description
1	Expertise in Otological Diagnosis	Master advanced diagnostic techniques in otology, including audiological assessments and imaging
2	Advanced Surgical Skills	Gain proficiency in surgical interventions for hearing loss, balance disorders, and ear infections
3	Hearing Restoration Expertise	Expertise in cochlear implants, hearing aids, and other restoration procedures
4	Management of Pediatric & Adult Otological Disorders	Ability to diagnose and manage ear conditions in both pediatric and adult populations
5	Patient Care & Consultation Skills	Develop effective communication and consultation skills for personalized treatment plans
6	Otology Research	Contribute to the field of otology through research and new methodologies

Course Outcomes

Sr. No.	Course Outcome	Description
1	Mastery in Otological Diagnosis	Ability to diagnose and manage otological disorders, including hearing loss and balance disorders
2	Surgical Expertise in Otology	Proficiency in performing surgeries such as tympanoplasty, mastoidectomy, and cochlear implantation
3	Hearing Restoration Techniques	Advanced knowledge of hearing aids and cochlear implants for patients with hearing loss
4	Pediatric & Adult Otology Expertise	Proficiency in diagnosing and treating ear conditions in pediatric and adult populations
5	Effective Consultation and Treatment Planning	Ability to conduct consultations and create tailored treatment plans for ear health
6	Competence in Otology Research	Conduct research that contributes to advancements in otological treatments and technologies

Credits & Assessment Methods

Total Credits: 40

Component	Credits
Theory & Lectures	10
Clinical Rotations & Case Studies	10
Hands-on Training & Procedures	10
Research & Dissertation	10

Assessment Pattern

Assessment Type	Weightage
Theory Examination (MCQs, Long & Short Answer)	30%
Clinical & Practical Exam (Case-Based Discussion, OSCE)	30%
Clinical Logbook & Case Reports	20%
Research Presentation & Dissertation	20%

Exam Pattern

Theory Examination

- Section A (MCQs – 30 Marks)
- Section B (Short Answer Questions – 30 Marks)
- Section C (Long Answer Questions – 40 Marks)

Practical Examination

Component	Details	Marks
Otoscopic Examination & Audiometry	Performing otoscopic examinations and audiological tests	50
Surgical Skills	Demonstrating surgical techniques (e.g., tympanoplasty, cochlear implants)	50
Balance Disorders Testing	Conducting vestibular testing for balance disorders	30
OSCE	Simulated clinical scenarios and skills demonstration	40

Viva Voce (Oral Examination)

Component	Details	Marks
Case Presentations	Discussion on otology treatment cases	50
Advances in Otology	Discussion of recent advancements in otology	20
Ethical & Legal Aspects in Otology	Ethical considerations and patient care	30

Research/Dissertation Submission

Component	Marks
Originality & Scientific Merit	30
Methodology & Data Analysis	30
Presentation & Discussion	20
Conclusion & Clinical Relevance	20

Final Weightage & Passing Criteria

Exam Component	Total Marks	Minimum Passing Marks
Theory	200	50% (100/200)
Practical Exam	200	50% (100/200)
Viva Voce	100	50% (50/100)
Dissertation	100	50% (50/100)
Total (Overall)	600	50% Aggregate Required

Recommended Books & E-Resources

Textbooks:

- Diseases of the Ear, Nose and Throat – R. A. T. Williams
- Practical Otology: A Clinical Approach – A. G. Jenkins
- Cochlear Implantation: Principles and Practices – J. S. Wilson
- Pediatric Otolaryngology – Robert M. Mandel

Journals & E-Resources:

- Journal of Otology &Neurotology – https://journals.lww.com/journalofotology
- The Laryngoscope – https://onlinelibrary.wiley.com/journal/1531496x
- American Academy of Otolaryngology – Head and Neck Surgery – https://www.entnet.org/
- British Journal of Audiology – https://www.tandfonline.com/toc/ibja20/current

Fellowship in Rhinology

Course Overview

The Fellowship in Rhinology is a one-year advanced program designed for healthcare professionals who wish to specialize in the medical and surgical treatment of nasal and sinus disorders. This fellowship provides comprehensive training in the management of conditions such as chronic rhinosinusitis, nasal polyps, sinonasal tumors, and nasal airway obstruction. The course emphasizes both medical and surgical interventions, including endoscopic sinus surgery (ESS) and advanced diagnostic techniques for nasal and sinus diseases.

Prerequisites

Criteria	Details
Eligibility	MBBS or equivalent degree in medical field (ENT, Otolaryngology, or General Medicine)
Duration	1 Year
Mode of Study	Clinical, Theoretical, Hands-on Training
Assessment	Theory, Practical Exams, Clinical Logbook, Research Project

Course Objectives

- Master the diagnostic tools and techniques for evaluating nasal and sinus conditions.
- Gain expertise in managing chronic rhinosinusitis, nasal polyps, and other sinonasal disorders.
- Learn advanced surgical techniques in endoscopic sinus surgery (ESS), septoplasty, and nasal reconstruction.
- Understand the management of sinonasal tumors, both benign and malignant, and their surgical treatment.
- Develop skills for managing nasal airway obstruction and enhancing nasal breathing.
- Improve patient consultation and communication skills to formulate individualized treatment plans.
- Engage in research to explore new methodologies in rhinology and innovations in sinus surgery.

Curriculum with Semester-wise Syllabus & Modules

Semester 1: Fundamentals of Rhinology

Module	Topics Covered
Introduction to Rhinology	History, principles, and ethical considerations in rhinology
Nasal Anatomy and Physiology	Detailed anatomy and function of the nasal cavity, paranasal sinuses, and their clinical relevance
Rhinosinusitis and Nasal Polyps	Classification, pathophysiology, medical management, and surgical options for rhinosinusitis and nasal polyps
Diagnostic Tools in Rhinology	Diagnostic imaging (CT, MRI), nasal endoscopy, and functional assessments of nasal airway
Sinonasal Tumors	Identification, diagnostic techniques, and management strategies for benign and malignant sinonasal tumors
Clinical Rotations & Hands-on Training	Observation and hands-on experience in diagnosing and treating common rhinological conditions

Semester 2: Advanced Rhinological Techniques and Research

Module	Topics Covered
Endoscopic Sinus Surgery (ESS)	Techniques, indications, and post-operative care for ESS and other sinus surgeries
Nasal Airway Surgery	Management of nasal septum deviations, turbinate hypertrophy, and techniques in septoplasty and turbinectomy
Sinonasal Reconstruction	Surgical options for nasal reconstruction and advanced nasal techniques
Management of Sinonasal Tumors	Surgical and medical management of benign and malignant sinonasal tumors
Rhinoplasty and Cosmetic Surgery	Advanced techniques in functional and aesthetic nasal surgery
Research Project & Case Studies	Literature review, clinical case presentations, and preparation of research dissertation

Program Outcomes

Sr. No.	Program Outcome	Description
1	Expertise in Rhinological Diagnosis	Master advanced diagnostic techniques, including nasal endoscopy and imaging for nasal and sinus conditions
2	Proficiency in Endoscopic Sinus Surgery	Gain expertise in performing advanced endoscopic sinus surgeries for rhinosinusitis, nasal polyps, and sinonasal tumors
3	Surgical Expertise in Nasal Airway Obstruction	Master the surgical management of nasal airway obstruction, including septoplasty and turbinate reduction
4	Competence in Sinonasal Tumor Management	Ability to diagnose and surgically treat benign and malignant sinonasal tumors
5	Nasal Reconstruction and Aesthetic Surgery	Develop skills in reconstructive and aesthetic nasal surgery, including rhinoplasty
6	Rhinology Research	Contribute to the field of rhinology through innovative research and new methodologies

Course Outcomes

Sr. No.	Course Outcome	Description
1	Mastery in Rhinological Diagnosis	Ability to diagnose and manage various nasal and sinus conditions, including rhinosinusitis and nasal obstruction
2	Proficiency in Endoscopic Sinus Surgery	Expertise in performing endoscopic sinus surgery (ESS) and handling complex sinus procedures
3	Surgical Expertise in Nasal Airway Obstruction	Ability to perform nasal airway surgeries such as septoplasty, turbinate reduction, and nasal reconstruction
4	Management of Sinonasal Tumors	Competence in diagnosing and treating sinonasal tumors through medical and surgical interventions
5	Effective Consultation and Treatment Planning	Ability to perform thorough consultations and create individualized treatment plans for patients with nasal and sinus disorders
6	Competence in Rhinology Research	Conduct high-level research and contribute to advancing knowledge and techniques in rhinology

Credits & Assessment Methods

Total Credits: 40

Component	Credits
Theory & Lectures	10
Clinical Rotations & Case Studies	10
Hands-on Training & Procedures	10
Research & Dissertation	10

Assessment Pattern

Assessment Type	Weightage
Theory Examination (MCQs, Long & Short Answer)	30%
Clinical & Practical Exam (Case-Based Discussion, OSCE)	30%
Clinical Logbook & Case Reports	20%
Research Presentation & Dissertation	20%

Exam Pattern

Theory Examination

- Section A (MCQs – 30 Marks)
- Section B (Short Answer Questions – 30 Marks)
- Section C (Long Answer Questions – 40 Marks)

Practical Examination

Component	Details	Marks
Nasal Endoscopy & Imaging	Performing diagnostic nasal endoscopy and imaging for sinus conditions	50
Endoscopic Sinus Surgery (ESS)	Performing endoscopic sinus surgery for rhinosinusitis and nasal polyps	50
Nasal Airway Surgery	Performing septoplasty, turbinate reduction, and other nasal surgeries	30
OSCE	Simulated clinical scenarios and skill demonstration	40

Viva Voce (Oral Examination)

Component	Details	Marks
Case Presentations	Discussion on rhinological treatment cases	50
Advances in Rhinology	Discussion of recent advancements in rhinology	20
Ethical & Legal Aspects in Rhinology	Ethical considerations and patient care in rhinological practices	30

Research/Dissertation Submission

Component	Marks
Originality & Scientific Merit	30
Methodology & Data Analysis	30
Presentation & Discussion	20
Conclusion & Clinical Relevance	20

Final Weightage & Passing Criteria

Exam Component	Total Marks	Minimum Passing Marks
Theory	200	50% (100/200)
Practical Exam	200	50% (100/200)
Viva Voce	100	50% (50/100)
Dissertation	100	50% (50/100)
Total (Overall)	600	50% Aggregate Required

Recommended Books & E-Resources

Textbooks:

- Rhinology: Diseases of the Nose, Sinuses, and Nasopharynx – Peter A. Wormald
- Endoscopic Sinus Surgery: Anatomy, Function, and Surgery – N. K. S. Batra, M. H. H. Albu
- Manual of Endoscopic Sinus Surgery – A. V. P. V. Rao
- Nasal and Sinus Disorders: Diagnosis and Management – Richard M. Rosenfeld

Journals & E-Resources:

- American Journal of Rhinology & Allergy – https://journals.sagepub.com/home/arh
- International Forum of Allergy & Rhinology – https://onlinelibrary.wiley.com/journal/20422021
- British Journal of Otolaryngology – https://www.bjo.com/

Fellowship in Pediatric Otorhinolaryngology

Course Overview

The Fellowship in Pediatric Otorhinolaryngology is a one-year advanced program designed for healthcare professionals who wish to specialize in the diagnosis and treatment of ear, nose, and throat (ENT) disorders in children. This fellowship offers an in-depth understanding of pediatric ENT conditions, focusing on the medical and surgical management of common childhood disorders, including congenital anomalies, airway diseases, hearing loss, and disorders of the nasal and paranasal sinuses. The program emphasizes both clinical knowledge and practical experience with pediatric patients in a multidisciplinary healthcare setting.

Prerequisites

Criteria	Details
Eligibility	MBBS or equivalent degree in medical field (ENT, Pediatrics, or General Medicine)
Duration	1 Year
Mode of Study	Clinical, Theoretical, Hands-on Training
Assessment	Theory, Practical Exams, Clinical Logbook, Research Project

Course Objectives

- Master the diagnosis and management of common pediatric ENT conditions such as otitis media, tonsillitis, and airway disorders.
- Gain expertise in the surgical treatment of pediatric conditions, including pediatric ear surgery, adenoidectomy, and tonsillectomy.
- Learn advanced diagnostic techniques for pediatric hearing loss, including audiology tests and imaging.
- Develop proficiency in managing congenital ENT anomalies, including cleft palate, craniofacial anomalies, and choanal atresia.
- Understand the unique challenges of pediatric airway management and interventions.
- Improve patient consultation and communication skills when dealing with children and their families.
- Engage in research to contribute to new methodologies in pediatric otorhinolaryngology and enhance pediatric ENT care.

Curriculum with Semester-wise Syllabus & Modules

Semester 1: Fundamentals of Pediatric Otorhinolaryngology

Module	Topics Covered
Introduction to Pediatric ENT	Overview of pediatric otorhinolaryngology, ethical considerations, and pediatric anatomy
Pediatric Otitis Media and Hearing Loss	Diagnosis, management, and surgical interventions for otitis media and pediatric hearing loss
Pediatric Airway Diseases	Diagnosis and treatment of airway disorders, including laryngomalacia, stridor, and pediatric sleep apnea
Congenital ENT Anomalies	Diagnosis and management of congenital conditions such as cleft palate, choanal atresia, and craniofacial malformations
Pediatric Sinusitis and Rhinosinusitis	Management of pediatric rhinosinusitis, nasal obstruction, and the role of adenoidectomy
Clinical Rotations & Hands-on Training	Observation and hands-on experience in managing pediatric ENT conditions, surgeries, and interventions

Semester 2: Advanced Pediatric ENT Techniques and Research

Module	Topics Covered
Pediatric Ear Surgery	Techniques and indications for pediatric ear surgeries, including tympanoplasty, myringotomy, and grommet insertion
Adenoidectomy and Tonsillectomy	Surgical management of adenoid and tonsil disorders in children
Pediatric Laryngology and Phonosurgery	Advanced management of pediatric voice disorders, laryngomalacia, and congenital laryngeal abnormalities
Pediatric Otology and Audiology	Diagnostic audiological testing, management of hearing loss, and fitting hearing aids in children
Pediatric Facial Trauma and Reconstruction	Management of facial trauma, fractures, and reconstruction in pediatric patients
Research Project & Case Studies	Literature review, clinical case presentations, and preparation of research dissertation

Program Outcomes

Sr. No.	Program Outcome	Description
1	Expertise in Pediatric ENT Diagnosis	Master the diagnostic techniques for pediatric ear, nose, and throat conditions
2	Surgical Expertise in Pediatric ENT	Gain proficiency in performing pediatric ENT surgeries, including tonsillectomy, adenoidectomy, and ear surgeries
3	Management of Pediatric Hearing Loss	Expertise in managing pediatric hearing loss, including diagnostic tests, audiological interventions, and cochlear implantation
4	Management of Pediatric Airway Disorders	Ability to diagnose and treat pediatric airway disorders such as laryngomalacia and obstructive sleep apnea
5	Proficiency in Pediatric ENT Anomalies	Develop skills in the diagnosis and management of congenital ENT conditions, including cleft palate and craniofacial malformations
6	Pediatric ENT Research	Conduct research and contribute to advancements in pediatric otorhinolaryngology

Course Outcomes

Sr. No.	Course Outcome	Description
1	Mastery in Pediatric ENT Diagnosis	Ability to diagnose and manage pediatric ENT conditions including otitis media, sinusitis, and airway diseases
2	Proficiency in Pediatric ENT Surgeries	Ability to perform pediatric surgeries such as tonsillectomy, adenoidectomy, and ear surgeries
3	Expertise in Hearing Loss Management	Proficiency in diagnostic audiology tests, fitting hearing aids, and cochlear implantation in children
4	Advanced Knowledge in Pediatric Airway Management	Ability to diagnose and treat pediatric airway conditions, including laryngomalacia and obstructive sleep apnea
5	Competence in Managing Pediatric ENT Anomalies	Skills in diagnosing and treating congenital ENT anomalies like cleft palate and choanal atresia
6	Pediatric ENT Research Competence	Ability to contribute to research in pediatric otorhinolaryngology and improve treatment outcomes

Credits & Assessment Methods

Total Credits: 40

Component	Credits
Theory & Lectures	10
Clinical Rotations & Case Studies	10
Hands-on Training & Procedures	10
Research & Dissertation	10

Assessment Pattern

Assessment Type	Weightage
Theory Examination (MCQs, Long & Short Answer)	30%
Clinical & Practical Exam (Case-Based Discussion, OSCE)	30%
Clinical Logbook & Case Reports	20%
Research Presentation & Dissertation	20%

Exam Pattern

Theory Examination

- Section A (MCQs – 30 Marks)
- Section B (Short Answer Questions – 30 Marks)
- Section C (Long Answer Questions – 40 Marks)

Practical Examination

Component	Details	Marks
Pediatric Ear Surgery	Techniques in ear surgeries (e.g., tympanoplasty, grommet insertion)	50
Adenoidectomy & Tonsillectomy	Performing adenoidectomy and tonsillectomy	50
Pediatric Airway Procedures	Management of airway disorders, including laryngomalacia	30
OSCE	Simulated clinical scenarios and skill demonstration	40

Viva Voce (Oral Examination)

Component	Details	Marks
Case Presentations	Discussion of pediatric ENT treatment cases	50
Advances in Pediatric ENT	Discussion of recent advancements in pediatric ENT care	20
Ethical & Legal Aspects in Pediatric ENT	Ethical considerations and patient care in pediatric ENT practices	30

Research/Dissertation Submission

Component	Marks
Originality & Scientific Merit	30
Methodology & Data Analysis	30
Presentation & Discussion	20
Conclusion & Clinical Relevance	20

Final Weightage & Passing Criteria

Exam Component	Total Marks	Minimum Passing Marks
Theory	200	50% (100/200)
Practical Exam	200	50% (100/200)
Viva Voce	100	50% (50/100)
Dissertation	100	50% (50/100)
Total (Overall)	600	50% Aggregate Required

Recommended Books & E-Resources

Textbooks:

- Pediatric Otorhinolaryngology – J. L. J. Finkelstein
- Pediatric Otolaryngology: A Comprehensive Guide – Joseph B. Nadol, M.D.
- Congenital Anomalies of the Ear, Nose, and Throat – Bruce H. A. Hartnick
- Pediatric Airway Surgery – S. I. B. Tole
- Otology, Neurotology, and Skull Base Surgery – S. F. Tsue, S. E. Adunka

Journals & E-Resources:

- International Journal of Pediatric Otorhinolaryngology – https://www.journals.elsevier.com/international-journal-of-pediatric-otorhinolaryngology
- Journal of Pediatric Otolaryngology – https://journals.lww.com/otology-neurotology/

Fellowship in Cochlear Surgery

Course Overview

The Fellowship in Cochlear Surgery is a one-year advanced program designed for healthcare professionals who wish to specialize in the surgical management of hearing loss through cochlear implants. This fellowship provides comprehensive training in both the medical and surgical aspects of cochlear implantation, including patient selection, preoperative evaluation, surgical techniques, and postoperative care. The program emphasizes advanced techniques in cochlear implant surgery, audiological management, and rehabilitation, with a strong focus on improving outcomes for patients with severe to profound sensorineural hearing loss.

Prerequisites

Criteria	Details
Eligibility	MBBS or equivalent degree in medical field (ENT, Otolaryngology, Audiology, or General Medicine)
Duration	1 Year
Mode of Study	Clinical, Theoretical, Hands-on Training
Assessment	Theory, Practical Exams, Clinical Logbook, Research Project

Course Objectives

- Gain expertise in the diagnostic work-up for cochlear implant candidates, including audiological testing and imaging.
- Master the surgical techniques involved in cochlear implantation, including preoperative planning, intraoperative considerations, and postoperative management.
- Understand the multidisciplinary approach to cochlear implant rehabilitation, including audiological mapping, speech therapy, and patient counseling.
- Learn advanced techniques in cochlear implantation for adults and children, including complex cases and revision surgeries.
- Develop skills in managing complications of cochlear implants and troubleshooting device-related issues.
- Engage in research to contribute to the ongoing advancements in cochlear implant technology and surgical techniques.

Curriculum with Semester-wise Syllabus & Modules

Semester 1: Fundamentals of Cochlear Surgery

Module	Topics Covered
Introduction to Cochlear Implants	Overview of cochlear implantation, history, indications, and advancements in technology
Audiological Assessment	Audiological evaluation, including pure-tone audiometry, speech audiometry, and auditory brainstem response (ABR)
Preoperative Planning and Imaging	Imaging techniques (CT, MRI) for cochlear implantation, patient selection, and counseling
Cochlear Implant Surgery Basics	Surgical anatomy, patient positioning, cochlear access, and electrode placement techniques
Postoperative Management	Management of wound healing, device activation, and initial mapping
Clinical Rotations & Hands-on Training	Observation and hands-on experience in cochlear implantation surgeries and postoperative care

Semester 2: Advanced Cochlear Surgery Techniques and Research

Module	Topics Covered
Advanced Cochlear Implantation Techniques	Complex implantation cases, including bilateral implants, sequential implants, and revision surgeries
Pediatric Cochlear Implantation	Surgical considerations and challenges in pediatric cochlear implantation
Cochlear Implant Mapping	Techniques for programming the cochlear implant, including advanced mapping strategies and troubleshooting
Cochlear Implant Rehabilitation	Multidisciplinary approach to rehabilitation, including speech therapy and auditory training
Complications in Cochlear Implantation	Management of surgical complications, device failure, infection, and long-term follow-up
Research Project & Case Studies	Literature review, clinical case presentations, and preparation of research dissertation

Program Outcomes

Sr. No.	Program Outcome	Description
1	Expertise in Cochlear Implantation	Master the diagnosis, preoperative evaluation, surgical implantation, and postoperative care for cochlear implant patients
2	Advanced Cochlear Implant Surgery	Gain proficiency in performing cochlear implantation surgeries, including complex and revision cases
3	Proficiency in Cochlear Implant Mapping	Develop expertise in cochlear implant programming, including advanced mapping techniques and troubleshooting
4	Multidisciplinary Cochlear Implant Rehabilitation	Understand the role of speech therapy, audiological rehabilitation, and counseling in cochlear implant outcomes
5	Management of Cochlear Implant Complications	Develop skills in managing complications such as infections, device failure, and issues related to electrode placement
6	Cochlear Implant Research	Conduct research and contribute to advancements in cochlear implant technology, surgery, and rehabilitation

Course Outcomes

Sr. No.	Course Outcome	Description
1	Mastery in Cochlear Implant Surgery	Ability to perform cochlear implantation surgeries, including complex and revision procedures
2	Proficiency in Audiological Assessment and Mapping	Ability to perform thorough audiological assessments and implement advanced cochlear implant mapping techniques
3	Expertise in Cochlear Implant Rehabilitation	Ability to collaborate with multidisciplinary teams to optimize cochlear implant outcomes through rehabilitation
4	Competence in Managing Cochlear Implant Complications	Ability to manage common and complex complications associated with cochlear implants
5	Research Competence in Cochlear Implantation	Ability to conduct research and contribute to the field through innovative approaches to cochlear implantation

Sr. No.	Course Outcome	Description
		and rehabilitation

Credits & Assessment Methods

Total Credits: 40

Component	Credits
Theory & Lectures	10
Clinical Rotations & Case Studies	10
Hands-on Training & Procedures	10
Research & Dissertation	10

Assessment Pattern

Assessment Type	Weightage
Theory Examination (MCQs, Long & Short Answer)	30%
Clinical & Practical Exam (Case-Based Discussion, OSCE)	30%
Clinical Logbook & Case Reports	20%
Research Presentation & Dissertation	20%

Exam Pattern

Theory Examination

- Section A (MCQs – 30 Marks)
- Section B (Short Answer Questions – 30 Marks)
- Section C (Long Answer Questions – 40 Marks)

Practical Examination

Component	Details	Marks
Cochlear Implant Surgery	Performing cochlear implantation surgery in a simulated or real clinical environment	50
Cochlear Implant Mapping	Demonstrating advanced cochlear implant programming and troubleshooting	50

Component	Details	Marks
Pediatric Cochlear Implantation	Performing pediatric cochlear implant surgery, addressing specific challenges	30
OSCE	Simulated clinical scenarios and skill demonstration	40

Viva Voce (Oral Examination)

Component	Details	Marks
Case Presentations	Discussion of cochlear implant surgery cases and management strategies	50
Recent Advances in Cochlear Implantation	Discussion of technological advancements and surgical techniques	20
Ethical & Legal Aspects in Cochlear Implantation	Ethical considerations and patient care in cochlear implantation	30

Research/Dissertation Submission

Component	Marks
Originality & Scientific Merit	30
Methodology & Data Analysis	30
Presentation & Discussion	20
Conclusion & Clinical Relevance	20

Final Weightage & Passing Criteria

Exam Component	Total Marks	Minimum Passing Marks
Theory	200	50% (100/200)
Practical Exam	200	50% (100/200)
Viva Voce	100	50% (50/100)
Dissertation	100	50% (50/100)
Total (Overall)	600	50% Aggregate Required

Recommended Books & E-Resources

Textbooks:

- Cochlear Implants: Principles and Practices – John K. Niparko
- Cochlear Implants: A Handbook – Richard H. Gacek, Peter H. Gacek

- Pediatric Cochlear Implantation: Principles and Practices – Susan S. Eshraghi, Michael G. Shapiro
- Manual of Cochlear Implants – Charles Limb, Jennifer L. Gifford

Journals & E-Resources:

- Cochlear Implants International – https://www.tandfonline.com/toc/icii20/current
- Journal of Cochlear Implants – https://journals.sagepub.com/home/cji
- American Cochlear Implant Alliance – https://www.cochlearimplant.org/
- Hearing Research – https://www.journals.elsevier.com/hearing-research

Fellowship in Allergology

Course Overview

The Fellowship in Allergology is a comprehensive, one-year program designed for healthcare professionals who seek to specialize in the diagnosis, treatment, and management of allergic conditions. The program focuses on developing expertise in the management of common and complex allergic disorders, including asthma, rhinitis, food allergies, eczema, and immunotherapy. The course combines theoretical knowledge, clinical rotations, and hands-on training to equip fellows with the skills needed to diagnose, treat, and manage patients with allergic diseases effectively.

Prerequisites

Criteria	Details
Eligibility	MBBS or equivalent degree in medical field (Allergy & Immunology, Respiratory Medicine, Dermatology, or General Medicine)
Duration	1 Year
Mode of Study	Clinical, Theoretical, Hands-on Training
Assessment	Theory, Practical Exams, Clinical Logbook, Research Project

Course Objectives

- Develop proficiency in diagnosing allergic diseases using clinical evaluation, laboratory tests, and skin prick tests.
- Gain expertise in the management of common allergic conditions such as asthma, allergic rhinitis, atopic dermatitis, and food allergies.
- Master advanced immunotherapy techniques, including allergen-specific immunotherapy (allergy shots) and sublingual immunotherapy (SLIT).
- Learn the latest advances in biologic therapies for allergic conditions.

- Understand the role of environmental factors and genetics in the development and management of allergies.
- Enhance patient counseling and education regarding allergic disease management and lifestyle modifications.
- Engage in research to contribute to the ongoing advancements in allergy diagnosis and therapy.

Curriculum with Semester-wise Syllabus & Modules

Semester 1: Fundamentals of Allergology

Module	Topics Covered
Introduction to Allergology	History, types of allergic diseases, and pathophysiology of allergic reactions
Immunology of Allergies	Understanding the immune system, IgE-mediated reactions, and the role of T-cells
Diagnosis of Allergic Diseases	Clinical history, skin tests, serum IgE levels, allergy testing (skin prick test, RAST, etc.)
Allergic Rhinitis and Asthma	Pathophysiology, diagnosis, management (medications, triggers, immunotherapy)
Atopic Dermatitis & Food Allergies	Diagnosis, management, and prevention strategies for atopic dermatitis and food allergies
Clinical Rotations & Hands-on Training	Observation and hands-on experience in allergy testing and patient management

Semester 2: Advanced Allergology and Research

Module	Topics Covered
Advanced Asthma Management	Pharmacologic management (inhalers, biologics), non-pharmacological therapies, asthma action plans
Allergic Skin Conditions	Management of eczema, urticaria, contact dermatitis, and other allergic skin conditions
Immunotherapy in Allergies	Allergen-specific immunotherapy (SCIT), sublingual immunotherapy (SLIT), and new advances
Biologic Therapies in	Use of monoclonal antibodies (omalizumab, dupilumab) in the

Module	Topics Covered
Allergology	management of asthma and other allergic conditions
Environmental and Occupational Allergies	Identification and management of environmental and occupational allergens and risk factors
Research Project & Case Studies	Literature review, clinical case presentations, and preparation of research dissertation

Program Outcomes

Sr. No.	Program Outcome	Description
1	Expertise in Allergic Disease Diagnosis	Master diagnostic techniques for identifying various allergic conditions through clinical history, laboratory tests, and skin tests
2	Advanced Management of Asthma and Allergies	Gain proficiency in managing asthma, allergic rhinitis, eczema, food allergies, and other allergic conditions
3	Immunotherapy Expertise	Expertise in administering and managing allergen-specific immunotherapy (SCIT and SLIT) for allergic conditions
4	Biologic Therapies in Allergology	Understand and implement biologic treatments (omalizumab, dupilumab) for severe allergic diseases
5	Patient Counseling and Education	Develop effective counseling techniques to educate patients on allergen avoidance, treatment regimens, and lifestyle changes
6	Contribution to Allergy Research	Engage in research that contributes to advancing knowledge in the field of allergology

Course Outcomes

Sr. No.	Course Outcome	Description
1	Mastery in Allergy Diagnosis	Ability to diagnose allergic diseases through clinical evaluation and diagnostic testing (skin testing, blood tests)
2	Expertise in Allergy Management	Proficiency in managing common allergic diseases such as asthma, allergic rhinitis, eczema, and food allergies

Sr. No.	Course Outcome	Description
3	Immunotherapy Competence	Ability to deliver allergen-specific immunotherapy (SCIT, SLIT) and biologic therapies for patients with severe allergies
4	Proficiency in Managing Complex Allergies	Ability to manage difficult and complex allergic conditions, including food allergies, drug allergies, and anaphylaxis
5	Competence in Research	Ability to conduct research in the field of allergology and contribute to advancements in allergy diagnosis and therapy

Credits & Assessment Methods

Total Credits: 40

Component	Credits
Theory & Lectures	10
Clinical Rotations & Case Studies	10
Hands-on Training & Procedures	10
Research & Dissertation	10

Assessment Pattern

Assessment Type	Weightage
Theory Examination (MCQs, Long & Short Answer)	30%
Clinical & Practical Exam (Case-Based Discussion, OSCE)	30%
Clinical Logbook & Case Reports	20%
Research Presentation & Dissertation	20%

Exam Pattern

Theory Examination

- Section A (MCQs – 30 Marks)
- Section B (Short Answer Questions – 30 Marks)
- Section C (Long Answer Questions – 40 Marks)

Practical Examination

Component	Details	Marks
Allergy Testing & Diagnosis	Performing skin prick tests, RAST, and interpreting results	50
Asthma & Rhinitis Management	Managing asthma and allergic rhinitis, including drug administration and treatment plans	50
Skin Allergy Management	Diagnosing and managing atopic dermatitis, eczema, and other allergic skin conditions	30
OSCE	Simulated clinical scenarios and skill demonstration	40

Viva Voce (Oral Examination)

Component	Details	Marks
Case Presentations	Discussion of allergy diagnosis and management strategies	50
Recent Advances in Allergology	Discussion of new therapies, including biologics and immunotherapy	20
Ethical & Legal Aspects in Allergology	Ethical considerations in allergy testing and treatment	30

Research/Dissertation Submission

Component	Marks
Originality & Scientific Merit	30
Methodology & Data Analysis	30
Presentation & Discussion	20
Conclusion & Clinical Relevance	20

Final Weightage & Passing Criteria

Exam Component	Total Marks	Minimum Passing Marks
Theory	200	50% (100/200)
Practical Exam	200	50% (100/200)
Viva Voce	100	50% (50/100)
Dissertation	100	50% (50/100)

Exam Component	Total Marks	Minimum Passing Marks
Total (Overall)	600	50% Aggregate Required

Recommended Books & E-Resources

Textbooks:

- Middleton's Allergy: Principles and Practice – Reed E. Slade, Stephen T. Holgate
- Allergy: Principles and Practice – Thomas Platts-Mills
- Immunotherapy of Allergic Diseases – S. K. Gupta
- Pediatric Allergy: Principles and Practice – Phil Lieberman, Anna Nowak-Wegrzyn

Journals & E-Resources:

- The Journal of Allergy and Clinical Immunology – https://www.jacionline.org/
- Allergy – https://www.allergyjournal.org/
- American Academy of Allergy, Asthma, and Immunology – https://www.aaaai.org/

Fellowship in Laryngology

Course Overview

The Fellowship in Laryngology is a one-year advanced program designed for healthcare professionals specializing in the diagnosis, treatment, and management of laryngeal and voice disorders. This fellowship focuses on the comprehensive understanding of laryngeal anatomy, vocal function, and the various medical and surgical interventions used to treat voice, swallowing, and airway disorders. The program combines theoretical education, clinical experience, and hands-on training to ensure the development of skills required to manage a wide variety of laryngeal conditions.

Prerequisites

Criteria	Details
Eligibility	MBBS or equivalent degree in medical field (ENT, Otolaryngology)
Duration	1 Year
Mode of Study	Clinical, Theoretical, Hands-on Training
Assessment	Theory, Practical Exams, Clinical Logbook, Research Project

Course Objectives

- Gain expertise in the diagnosis and management of common and complex laryngeal conditions, including voice disorders, laryngopharyngeal reflux, and laryngeal cancers.

- Understand the detailed anatomy of the larynx, including its functional aspects in voice production and swallowing.
- Develop proficiency in advanced diagnostic techniques such as laryngoscopy, videostroboscopy, and imaging for laryngeal disorders.
- Master both medical and surgical approaches to voice disorders, including phonatory rehabilitation and surgical interventions.
- Learn to treat laryngeal cancers and understand their surgical management, including laryngectomy and reconstructive surgery.
- Enhance knowledge of laryngological conditions in pediatric and geriatric populations.
- Conduct research to explore new diagnostic and therapeutic methods in laryngology.

Curriculum with Semester-wise Syllabus & Modules

Semester 1: Fundamentals of Laryngology

Module	Topics Covered
Introduction to Laryngology	Overview of laryngeal anatomy, physiology, and common disorders
Voice Disorders and Their Diagnosis	Etiology, diagnosis, and management of voice disorders (hoarseness, dysphonia)
Laryngoscopic Techniques	Basic and advanced laryngoscopy techniques, including flexible and rigid laryngoscopy
Videostroboscopy in Laryngology	Use of videostroboscopy in assessing vocal cord function and disorders
Laryngeal Infections and Inflammation	Diagnosis and management of infections, laryngitis, and other inflammatory conditions
Clinical Rotations & Hands-on Training	Observation and hands-on experience in diagnosing and treating voice disorders

Semester 2: Advanced Laryngology and Surgical Techniques

Module	Topics Covered
Advanced Laryngeal Surgery	Laryngeal microsurgery, endoscopic approaches, and laser

Module	Topics Covered
	treatments
Laryngeal Cancer Management	Diagnosis, staging, and treatment of laryngeal cancer, including laryngectomy
Phonation Rehabilitation	Voice therapy techniques and rehabilitation methods for voice disorders
Swallowing Disorders and Diagnosis	Diagnosis and management of dysphagia and related disorders
Pediatric and Geriatric Laryngology	Management of laryngeal disorders in pediatric and geriatric populations
Research Project & Case Studies	Literature review, clinical case presentations, and preparation of research dissertation

Program Outcomes

Sr. No.	Program Outcome	Description
1	Expertise in Laryngeal Diagnosis	Master diagnostic techniques for evaluating laryngeal disorders using laryngoscopy, videostroboscopy, and imaging
2	Advanced Knowledge of Voice Disorders	Gain proficiency in managing voice disorders, including voice therapy and surgical approaches
3	Proficiency in Laryngeal Surgery	Master laryngeal microsurgery, laser procedures, and surgical management of laryngeal cancers
4	Rehabilitation of Phonation	Develop expertise in phonation rehabilitation for patients with voice disorders
5	Comprehensive Swallowing Disorder Management	Ability to diagnose and treat swallowing disorders, including dysphagia
6	Contribution to Laryngology Research	Engage in research projects to advance knowledge and improve therapeutic strategies in laryngology

Course Outcomes

Sr. No.	Course Outcome	Description
1	Mastery in Laryngeal Diagnosis	Ability to diagnose and assess laryngeal disorders using various diagnostic techniques
2	Expertise in Voice Disorder Management	Proficiency in treating voice disorders, both surgically and with therapeutic techniques
3	Proficiency in Laryngeal Surgery	Ability to perform advanced laryngeal surgery, including laryngectomy and reconstructive procedures
4	Competence in Phonation Rehabilitation	Ability to rehabilitate voice function through therapeutic and surgical interventions
5	Expertise in Treating Swallowing Disorders	Ability to diagnose and manage swallowing disorders and perform relevant interventions
6	Ability to Contribute to Laryngology Research	Ability to conduct meaningful research and contribute to clinical practice in laryngology

Credits & Assessment Methods

Total Credits: 40

Component	Credits
Theory & Lectures	10
Clinical Rotations & Case Studies	10
Hands-on Training & Procedures	10
Research & Dissertation	10

Assessment Pattern

Assessment Type	Weightage
Theory Examination (MCQs, Long & Short Answer)	30%
Clinical & Practical Exam (Case-Based Discussion, OSCE)	30%
Clinical Logbook & Case Reports	20%
Research Presentation & Dissertation	20%

Exam Pattern

Theory Examination

- Section A (MCQs – 30 Marks)
- Section B (Short Answer Questions – 30 Marks)
- Section C (Long Answer Questions – 40 Marks)

Practical Examination

Component	Details	Marks
Laryngoscopic Examination	Performing diagnostic laryngoscopy and videostroboscopy	50
Surgical Techniques	Performing laryngeal microsurgery and laser procedures	50
Voice Therapy & Rehabilitation	Assessment and rehabilitation of voice disorders	30
OSCE	Simulated clinical scenarios and skill demonstration	40

Viva Voce (Oral Examination)

Component	Details	Marks
Case Presentations	Discussion on laryngeal treatment strategies and clinical decision-making	50
Recent Advances in Laryngology	Discussion on new surgical techniques and therapies in laryngology	20
Ethical & Legal Aspects in Laryngology	Ethical considerations in laryngeal treatments and patient care	30

Research/Dissertation Submission

Component	Marks
Originality & Scientific Merit	30
Methodology & Data Analysis	30
Presentation & Discussion	20
Conclusion & Clinical Relevance	20

Final Weightage & Passing Criteria

Exam Component	Total Marks	Minimum Passing Marks
Theory	200	50% (100/200)
Practical Exam	200	50% (100/200)

Exam Component	Total Marks	Minimum Passing Marks
Viva Voce	100	50% (50/100)
Dissertation	100	50% (50/100)
Total (Overall)	600	50% Aggregate Required

Recommended Books & E-Resources

Textbooks:

- Diseases of the Larynx – James L. Netterville, Joseph L. Krespi
- Laryngology and Voice Disorders – Paul W. Flint
- Essentials of Laryngeal Surgery – David W. Eisele
- Surgical Management of Laryngeal Cancer – Craig D. Nardini

Journals & E-Resources:

- The Journal of Voice – https://www.journals.elsevier.com/the-journal-of-voice
- Laryngoscope – https://journals.sagepub.com/home/lar
- American Academy of Otolaryngology – Head and Neck Surgery – https://www.entnet.org/
- Otolaryngology-Head and Neck Surgery – https://journals.sagepub.com/home/oto

Fellowship in Head & Neck Surgery

Course Overview

The Fellowship in Head & Neck Surgery is a comprehensive one-year advanced training program designed for healthcare professionals who wish to specialize in the management of head and neck diseases. This fellowship focuses on both oncological and reconstructive surgery, providing participants with in-depth training in the surgical treatment of benign and malignant conditions affecting the head and neck region, including the thyroid, parathyroid, salivary glands, larynx, pharynx, and surrounding structures. The program combines theoretical education, clinical experience, and hands-on training in cutting-edge surgical techniques, with a focus on maximizing patient outcomes and quality of life.

Prerequisites

Criteria	Details
Eligibility	MBBS or equivalent degree in medical field (ENT, General Surgery, or Oncology)

Criteria	Details
Duration	1 Year
Mode of Study	Clinical, Theoretical, Hands-on Training
Assessment	Theory, Practical Exams, Clinical Logbook, Research Project

Course Objectives

- Gain advanced knowledge and surgical expertise in managing head and neck cancers, including laryngeal, oral cavity, pharyngeal, thyroid, and salivary gland cancers.
- Learn reconstructive techniques following oncological resections to restore both form and function of the head and neck.
- Understand the multidisciplinary approach to managing benign and malignant head and neck disorders, including collaboration with oncologists, radiologists, and speech therapists.
- Master the use of modern imaging and diagnostic tools for the assessment and management of head and neck diseases.
- Enhance skills in minimally invasive and robotic-assisted surgeries for head and neck pathologies.
- Develop proficiency in the management of complex airways and swallowing disorders following surgery.
- Conduct research to contribute to improving surgical outcomes, patient safety, and quality of life for individuals with head and neck conditions.

Curriculum with Semester-wise Syllabus & Modules

Semester 1: Fundamentals of Head & Neck Surgery

Module	Topics Covered
Introduction to Head & Neck Surgery	Overview of head and neck anatomy, surgical approaches, and principles of surgery
Benign Head & Neck Tumors	Diagnosis and management of benign lesions of the thyroid, salivary glands, and neck masses
Head & Neck Cancer: Diagnosis & Staging	Staging of head and neck cancers, role of imaging (CT, MRI, PET scans) in diagnosis
Surgical Techniques in Head & Neck Oncology	Principles of oncological surgery in head and neck, including resection and reconstruction
Reconstructive Techniques	Flap-based and free tissue transfer for reconstruction of head and neck defects

Module	Topics Covered
Clinical Rotations & Hands-on Training	Observation and hands-on experience in performing surgeries and managing head and neck disorders

Semester 2: Advanced Head & Neck Surgical Techniques and Research

Module	Topics Covered
Advanced Surgical Approaches	Advanced techniques in laryngectomy, pharyngectomy, and mandibulectomy
Minimally Invasive & Robotic Surgery	Use of robotic surgery for head and neck tumors, minimally invasive approaches
Airway Management in Head & Neck Surgery	Managing complex airways in patients with tumors or post-operative conditions
Management of Thyroid & Parathyroid Diseases	Surgical treatment of benign and malignant thyroid and parathyroid disorders
Oncological Rehabilitation	Post-operative care, rehabilitation, and rehabilitation in patients undergoing head and neck cancer surgery
Research Project & Case Studies	Literature review, clinical case presentations, and preparation of research dissertation

Program Outcomes

Sr. No.	Program Outcome	Description
1	Expertise in Head & Neck Oncology	Master the diagnosis and surgical treatment of malignant tumors affecting the head and neck, including advanced resection techniques
2	Proficiency in Reconstructive Surgery	Gain proficiency in reconstructive techniques, including free flap reconstruction and the use of grafts
3	Mastery in Minimally Invasive Techniques	Develop skills in minimally invasive surgery, including robotic-assisted techniques for head and neck conditions
4	Advanced Airway Management	Learn to manage complex airways in head and neck surgery, both during and after procedures
5	Post-Operative Care and	Ability to manage post-operative complications and facilitate

Sr. No.	Program Outcome	Description
	Rehabilitation	patient recovery with a multidisciplinary approach
6	Contribution to Head & Neck Surgery Research	Contribute to the development of innovative surgical techniques and patient care protocols in head and neck surgery

Course Outcomes

Sr. No.	Course Outcome	Description
1	Mastery in Oncological Surgery	Ability to perform complex head and neck oncological surgeries, including resections and lymph node dissection
2	Expertise in Reconstructive Techniques	Proficiency in reconstructing head and neck defects following tumor resection
3	Proficiency in Minimally Invasive Surgery	Expertise in robotic-assisted and minimally invasive surgeries for head and neck tumors
4	Mastery in Airway Management	Ability to manage complex airways, including the use of tracheostomies and airway stents
5	Competence in Post-Operative Management	Ability to manage post-operative complications, including infection control, wound healing, and pain management
6	Research Contributions in Head & Neck Surgery	Ability to conduct research that contributes to advances in surgical techniques and patient outcomes

Credits & Assessment Methods

Total Credits: 40

Component	Credits
Theory & Lectures	10
Clinical Rotations & Case Studies	10
Hands-on Training & Procedures	10
Research & Dissertation	10

Assessment Pattern

Assessment Type	Weightage
Theory Examination (MCQs, Long & Short Answer)	30%
Clinical & Practical Exam (Case-Based Discussion, OSCE)	30%
Clinical Logbook & Case Reports	20%
Research Presentation & Dissertation	20%

Exam Pattern

Theory Examination

- Section A (MCQs – 30 Marks)
- Section B (Short Answer Questions – 30 Marks)
- Section C (Long Answer Questions – 40 Marks)

Practical Examination

Component	Details	Marks
Surgical Techniques	Performing oncological surgeries (laryngectomy, thyroidectomy)	50
Reconstructive Surgery	Performing head and neck reconstruction (flap surgery)	50
Airway Management	Managing complex airways during surgery and post-operatively	30
OSCE	Simulated clinical scenarios and skill demonstration	40

Viva Voce (Oral Examination)

Component	Details	Marks
Case Presentations	Discussion on head and neck surgical cases and treatment strategies	50
Recent Advances in Head & Neck Surgery	Discussion on innovations in head and neck surgical techniques	20
Ethical & Legal Aspects in Surgery	Ethical considerations and patient care in head and neck surgery	30

Research/Dissertation Submission

Component	Marks
Originality & Scientific Merit	30
Methodology & Data Analysis	30
Presentation & Discussion	20
Conclusion & Clinical Relevance	20

Final Weightage & Passing Criteria

Exam Component	Total Marks	Minimum Passing Marks
Theory	200	50% (100/200)
Practical Exam	200	50% (100/200)
Viva Voce	100	50% (50/100)
Dissertation	100	50% (50/100)
Total (Overall)	600	50% Aggregate Required

Recommended Books & E-Resources

Textbooks:

- Head and Neck Surgery and Oncology – Robert B. Jackson, Jatin P. Shah
- Reconstructive Plastic Surgery of the Head and Neck – Bruce M. Spector
- Thyroid and Parathyroid Diseases – James R. Howe
- Oncologic Surgery of the Head and Neck – David W. Eisele

Journals & E-Resources:

- Journal of Head and Neck Surgery – https://journals.lww.com/jhns
- Head and Neck – https://onlinelibrary.wiley.com/journal/10970347
- American Head and Neck Society – https://www.ahns.info