



**KHYBER MEDICAL UNIVERSITY**

**AUDIOLOGY CURRICULUM**

**YEAR ONE STUDY GUIDE**

**(SEMESTER 2)**

**16 Weeks Activity Planner**

**2021-22**

**CENTRAL CURRICULUM & ASSESSMENT COMMITTEE FOR  
NURSING, REHABILITATION SCIENCES & ALLIED HEALTH SCIENCES**





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# Introduction

## KMU VISION

Khyber Medical University will be the global leader in health sciences academics and research for efficient and compassionate health care.

## KMU MISSION

Khyber Medical University aims to promote professional competence through learning and innovation for providing comprehensive quality health care to the nation.

## CENTRAL CURRICULUM COMMITTEE

Opened new door, for the beginning of new era under the supervision of Prof Dr. Zia ul Haq, VC Khyber Medical University and Dr. Brekhna Jamil Director IH-PE&R the Central Curriculum & Assessment Committee has been formulated. This is first step taken to change the dynamics of Allied Health Sciences and Nursing Education in Pakistan. Committee by using a craft man approach has developed study guide which will provide pathways for other to follow and KMU will preserve the leadership in providing quality education across Pakistan and will be a reference point of quality in future. Committee has developed curricula to promote inter-professional learning, enhancing and improving the quality of life for people by discovering, teaching and applying knowledge related to Nursing, rehabilitation Sciences & Allied Health sciences.

High-quality education is relevant to patient needs and the changing patterns of skills that are demanded by modern health care and aligning assessment and providing quality training to students will definitely will be the outcome. Which will strengthen and enhance quality of Health System across Pakistan.

The Central Curriculum & Assessment Committee is as follows:

Dr. Brekhna Jamil	Chairperson	Director Institute of Health Professions Education & Research, KMU
Prof. Dr. Zia Ul Islam	Member	Professor ENT
Dr. Syed Hafeez Ahmad	Member	Addl. Controller of Examination Khyber Medical University
Dr. Danish Ali Khan	Member	Director/ Principal Northwest Institute of Health Sciences
Sardar Ali	Member	Assistant Professor Institute of Nursing Khyber Medical University
Muhammad Asif Zeb	Member	Lecturer Institute of ParaMedical Sciences Khyber Medical University
Nazish A Qadir	Member	Lecturer Institute of Physical Medicine & Rehabilitation Khyber Medical University
Syed Amin Ullah	Secretary	Assistant Director Academics Khyber Medical University



## INTRODUCTION

Audiology is a branch of science that studies hearing, balance, and related disorders. Audiologists treat those with hearing loss and proactively prevent related damage. By employing various testing strategies (e.g. behavioral hearing tests, otoacoustic emission measurements, and electrophysiologic tests), audiologists aim to determine whether someone has normal sensitivity to sounds. If hearing loss is identified, audiologists determine which portions of hearing (high, middle, or low frequencies) are affected, to what degree (severity of loss), and where the lesion causing the hearing loss is found (outer ear, middle ear, inner ear, auditory nerve and/or central nervous system). If an audiologist determines that a hearing loss or vestibular abnormality is present he or she will provide recommendations for interventions or rehabilitation (e.g. hearing aids, cochlear implants, appropriate medical referrals).

An Audiologist is the professional who specializes in evaluating and treating people with hearing loss, Audiologists have extensive training and skills to evaluate the hearing of infant, children and adult of all ages. Audiologists conduct a wide variety of tests to determine the exact nature of an individual's hearing problem. Audiologists present a variety of treatment options to patients with hearing impairment. Audiologists dispense and fit hearing aids, administer tests of balance to evaluate dizziness, and provide hearing rehabilitation training. Audiologists refer patients to physicians when the hearing problem needs medical or surgical evaluation.

Audiology is a clinical speciality, allied to medicine, that combines science and state-of-the-art technology to help improve the quality of life of people with hearing or balance problems, as well as their families and carers. Audiologists mostly work on the "frontline" of healthcare, working with people every day in a variety of settings. It is exciting, challenging, and rewarding.

In a nutshell, audiologists identify and assess hearing and balance disorders, and provide appropriate rehabilitation and management. They are responsible for their own case loads (i.e. are autonomous professionals) and work within a multidisciplinary team of professionals. Continuity of care is important in audiology, and audiologists work closely with patients and their families over weeks and even years.

## OBJECTIVES

By the end of this program, students should be able to:

1. **Demonstrate professional identity and ethos, with awareness of the scope and limits of the role of the audiologist.**
2. **Gain knowledge and core theoretical understanding of hearing and related disorders and their management, understanding the effect of hearing impairment on the person and the social contexts**
3. **Cultivate an attitude of professionalism and clear understanding of the audiologist multidimensional role, able to work in trans-disciplinary teams and cross-agencies in contexts across health, education and social care**
4. **Flexible and responsive practitioners, prepared for the workplace and changing patterns of service delivery with the knowledge and skills that will prepare them for working in a changing context**
5. **Demonstrate reasoning and problem solving skills which enable them to apply their learning to the appropriate evidence-based diagnosis and management of hearing and balance disorders in a wide range of clients and settings**
6. **Contribute to knowledge and understanding of hearing, its disorders and their management through the application of research to practice and with skills to engage in research**
7. **Practitioners who value and are committed to continuing professional development**



## SECOND SEMESTER SUBJECTS

S.No	Subjects	Duration
1	AUD- 611 HEAD AND NECK ANATOMY 4(4-0)	16 weeks
2	AUD- 612 MEDICAL AUDIOLOGY I 4(4-0)	16 weeks
3	RSC-626 SOCIOLOGY 2(2-0)	16 weeks
4	AUD -613 BASIC PATHOLOGY 3(3-0)	16 weeks
5	RSC-615 ISLAMIC STUDIES / ETHICS 2(2-0)	16 weeks
6	RSC-614 ENGLISH-II 3(3-0)	16 weeks



# 2<sup>nd</sup> Semester

# AUD-611 HEAD AND NECK ANATOMY 4(4-0)

## Course Description

The focus of this course is an in-depth study and analysis of the regional and systemic organization of the head and neck. Emphasis is placed upon structure and function. A comprehensive study of human anatomy with emphasis on the nervous, musculoskeletal and circulatory systems is incorporated. Introduction to general anatomy lays the foundation of the course. Identification of structures is supplemented with the study of charts, models, prosected materials and radiographs are utilized to identify anatomical landmarks and configurations of the head and neck.

## Cognitive Domain

By the end of this subject, students should be able to:

1. **Explain the basic anatomy of skull bones**
2. **Describe the Parts of lacrimal apparatus and glands**
3. **Describe the vessel of face**
4. **Explain the myology of face**
5. **Discuss deep Cervical facia**
6. **Explain the Triangle of neck**
7. **Explain the Nerves of face**
8. **Describe glands of head and Neck**
9. **Describe the temporomandibular joint**
10. **Discuss Lymphatic drainage of Head and Neck**
11. **Explain structures of oral cavity**
12. **Discuss the structure of Nose**
13. **Discuss the structure of Ear**
14. **Explain Cranial nerves in detail**
15. **Discuss the distribution of all arteries, veins & lymphatic drainage of Head and Neck .**

## Affective Domain

By the end of this subject, students should be able to:

1. **Demonstrate punctuality.**
2. **Follow the specified norms of the IL, SGD teaching & learning.**
3. **Demonstrate the humbleness and use the socially acceptable language during academic and social interactions with human models, colleagues and teachers.**
4. **Make ethically competent decisions when confronted with an ethical, social or moral problem related to professional or personal life.**

**TOS -AUD-611 HEAD AND NECK ANATOMY 4(4-0)**

S.No	Weeks	Content	Learning Outcomes	Domain			MIT's	Hours	Assesment	No of Items	
				C	P	A					
<b>TOPIC: SKULL BONES/ SCALP</b>											
1	Week-1	Bone, sutures, surface land marks	Explain the basic anatomy of skull bones	C2			Interactive Lecture/SGD	4	MCQ's	5	
2		sutures	Describe the sutures	C2							
3		land marks	Explain the exterior and interior of skull	C2							
4		Skull Bones		Explain the land marks of frontal and occipital bone	C2						
5				Explain the land marks of maxilla	C2						
6				Describe the sphenoid and temporal bones	C2						
7				Explain the Foetal skull	C2						
8				Describe the hyoid bone	C2						
9		Scalp		Describe layers of scalp	C2						
10				Explain the vascular supply of scalp	C2						
11				Explain the nerve supply of scalp	C2						
12				Explain the applied aspect of scalp	C2						
13				Discuss the Lymphatic drainage scalp	C2						
<b>TOPIC: EYELID &amp; LACRIMAL APPARATUS/ FACE</b>											
14	Week-2	lacrimal apparatus	Describe the Parts of lacrimal apparatus	C2			Interactive Lecture/SGD	4	MCQ's	5	
15		lacrimal gland	Explain the struture of lacrimal gland anatomy	C2							
16		Nerve supply	Discuss the nerve supply of lacrimal apparatus	C2							
17		Struture	Explain the struture of eyelid	C2							
18		Face fascia	Describe face fascia and Extent	C2							
19		Muscles	Discuss the origin & insertion of muscles of facial expres- sion								
20		Facial expression	Discuss muscles of facial expression with actions	C2							
21		Arterial and Venous supply	Describe the arterial and venous supply of face	C2							
22		Nerve supply	Describe the nerve supply of face	C2							
23		Lymphatic drainage	Describe the Lymphatic drainage of face								
24		Dangerous area	Discuss the dangerous area of face	C2							
25		Facial palsy	Describe the facial palsy	C2							

S.No	Weeks	Content	Learning Outcomes	Domain			MIT's	Hours	Assesment	No of Items
				C	P	A				
<b>TOPIC: DEEP CERVICAL FASCIA/ POSTERIOR TRIANGLE</b>										
26	Week-3	Deep Cervical Fascia	Explain the attachment of Investing layer	C2			Interactive Lecture/SGD	4	MCQ's	5
27			Describe the pre vertebral fascia	C2						
28			Describe the pre tracheal fascia	C2						
29			Describe the carotid sheath and its applied aspect	C2						
30			Explain the Pharyngeal spaces	C2						
31			Discuss the relations of all cervical fascia	C2						
32		Posterior Triangle	Explain subdivision, boundaries & contents of Posterior Triangle	C2						
33			Discuss the applied anatomy of Posterior Triangle	C2						
34			Discuss the origin, insertion, nerve supply and action sternocleido mastoid muscle.	C2						
35			Discuss the relations of sternocleidomastoid	C2						
<b>TOPIC: BACK OF NECK/ ANTERIOR TRIANGLE OF NECK</b>										
36	Week-4	Back of Neck	Explain suboccipital triangle boundaries and its contents	C2			Interactive Lecture/SGD	4	MCQ's	5
37			Describe sub occipital plexus of vein	C2						
38		Anterior triangle of neck	Explain Anterior triangle of neck, sub divisions, boundaries and its contents	C2						
39			Discuss the supra & infra hyoid muscles	C2						
40			Discuss the origin & insertion of supra & infra hyoid muscles	C2						
41			Discuss the applied anatomy of Anterior triangle of neck	C2						
42			Explain the cervical plexus	C2						
43			Describe the carotid body & sinus	C2						
44			Discuss the pre & para vertebral region	C2						

S.No	Weeks	Content	Learning Outcomes	Domain			MIT's	Hours	Assesment	No of Items
				C	P	A				
<b>TOPIC: PAROTID GLAND/ SUBMANDIBULAR GLAND</b>										
45	Week-5	Parotid gland	Explain the location and relations of parotid gland	C2			Interactive Lecture/SGD	4	MCQ's	5
46			Discribe the vascular supply of parotid gland	C2						
47			Discuss the nerve supply of parotid gland	C2						
48			Explain the lymphatic drainage of parotid gland	C2						
49			Explain the development of parotid gland	C2						
50			Discuss the applied aspect of parotid gland	C2						
51		Submandibular gland	Explain the location and relations of Submandibular gland	C2						
52			Discribe the vascular supply of Submandibular gland	C2						
53			Discuss the nerve supply of Submandibular gland	C2						
54			Explain the lymphatic drainage of Submandibular gland	C2						
55			Explain the applied aspect of Submandibular gland	C2						
56	Explain the struture of sublingual gland		C2							
<b>TOPIC: HYPOPHYSIS CEREBRI/ ORBIT</b>										
57	Week-6	Hypophysis cerebri	Explain the location and relations of Hypophysis cerebri	C2			Interactive Lecture/SGD	4	MCQ's	5
58			Discribe the vascular supply of Hypophysis cerebri	C2						
59			Discuss the nerve supply of Hypophysis cerebri	C2						
60			Explain the applied aspect of Hypophysis cerebri	C2						
61			Explain the Hypothalamo and hypophyseal portal system	C2						
62			Describe the Pituitary tumors	C2						
63		Orbit	Explain the extraocular muscles & their actions	C2						
64			Explain the nerve supply of extraocular muscles	C2						
65			Discuss the nerves and vessel of orbit	C2						
66			Explain applied aspect of orbit	C2						
67			Describe the cilliary ganglion	C2						
68			Discuss the demo and bony orbit	C2						
69			Explain origin & insertion of extraocular muscles	C2						
70			Explain the course of ophthalmic artery	C2						
71			Describe sympathetic nerves of the orbit	C2						

S.No	Weeks	Content	Learning Outcomes	Domain			MIT's	Hours	Assesment	No of Items
				C	P	A				
<b>TOPIC: TEMPORAL &amp; INFRA TEMPORAL REGION/ MANDIBULAR NERVE</b>										
72	Week-7	Temporal & infra temporal region	Explain the origin, insertion of muscles of mastication	C2			Interactive Lecture/SGD	4	MCQ's	5
73			Explain the action of muscles of mastication	C2						
74			Describe the nerve supply of mastication	C2						
75			Discuss the relations of muscles of mastication	C2						
76			Describe the mandibular neuralgia	C2						
77		Mandibular nerve	Explain the course and relations of mandibular nerve	C2						
78			Discuss the branches, distribution of mandibular nerve applied aspect	C2						
79			Discuss the applied aspect of mandibular nerve	C2						
<b>TOPIC: MAXILLARY ARTERY &amp; PTERYGOID PLEXUS COURSE/ TEMPOROMANDIBULAR JOINT</b>										
80	Week-8	Maxillary artery & pterygoid plexus course	Explain the branches maxillary artery & pterygoid plexus	C2			Interactive Lecture/SGD	4	MCQ's	5
81			Discuss the distribution maxillary artery & pterygoid plexus	C2						
82			Discuss the applied aspect maxillary artery & pterygoid plexus	C2						
83			Discuss the Pterygoid venous plexus	C2						
84		Temporomandibular joint	Discuss the temporomandibular joint type	C2						
85			Discuss the relations of temporomandibular joint	C2						
86			Describe the ligaments of temporomandibular joint	C2						
87			Describe the blood supply of temporomandibular joint	C2						
88			Describe the nerve supply of temporomandibular joint	C2						
89			Discuss the movements of temporomandibular joint with special emphasis on muscles causing movements	C2						
90			Discuss the applied aspect of temporomandibular joint	C2						

S.No	Weeks	Content	Learning Outcomes	Domain			MIT's	Hours	Assesment	No of Items	
				C	P	A					
<b>TOPIC: THYROID GLAND, PARATHYROID GLAND, THYMUS CERVICAL SYMPATHETIC GANGLIA</b>											
91	Week-9	Thyroid gland	Discuss location and relations thyroid gland with applied aspect	C2			Interactive Lecture/SGD	4	MCQ's	5	
92			Discuss vascular supply of thyroid gland	C2							
93			Discuss nerve supply of thyroid gland	C2							
94		Parathyroid gland	Discuss location and relations parathyroid gland with applied aspect	C2							
95			Discuss vascular supply of parathyroid gland	C2							
96			Discuss nerve supply of parathyroid gland	C2							
97		Subclavian, common carotid and external carotid artery: course & branches	Internal jugular & subclavian vein	Explain the great vessels of neck	C2						
98				Discuss the Internal jugular vein and its tributaries	C2						
99				Explain the subclavian vein and its relation	C2						
100				Explain the Cervical sympathetic ganglia	C2						
<b>TOPIC: LYMPHATIC DRAINAGE OF HEAD&amp; NECK/ ORAL CAVITY AND TONGUE</b>											
101	Week-10	Lymphatic drainage of Head& Neck	Explain the Lymphatic drainage of Head and Neck their location and distributions	C2			Interactive Lecture/SGD	4	MCQ's	5	
102			Discuss the applied anatomy Head and Neck	C2							
103			Describe the Joints of Head and Neck and their types	C2							
104			Describe the ligaments of Head and Neck	C2							
105			Describe the movements of Head and Neck with special emphasis on atlanto-axial & atlanto-occipital joints	C2							
106		Oral cavity	Discuss general description of oral cavity	C2							
107			Explain features of tongue	C2							
108			Explain muscles of tongue	C2							
109			Describe the vascular supply of tongue	C2							
110			Describe the nerve supply of tongue	C2							
111			Discuss the applied aspect tongue	C2							
112			Describe Injury to hypoglossal nerve	C2							



S.No	Weeks	Content	Learning Outcomes	Domain			MIT's	Hours	Assesment	No of Items
				C	P	A				
<b>TOPIC: PALATE/ PHARYNX/ TONSILS AND AUDITORY TUBE</b>										
113	Week-11	Palate	Discuss origin and insertion of Muscles in Palate	C2			Interactive Lecture/SGD	4	MCQ's	5
114			Explain the Muscles action of Palate	C2						
115			Explain the nerve supply of Palate	C2						
116			Discuss demo – sagittal section of head and neck	C2						
117			Explain the Morphology of palatopharyngeus	C2						
118		Pharynx	Discuss naso, oro and layngo pharynx and their relations, muscles	C2						
119			Discuss the muscles of pharynx	C2						
120			Discuss the nerve supply of pharynx	C2						
121			Discuss the applied anotomy of pharynx	C2						
122			Explain Demo – Sagittal section of head and neck	C2						
123			Describe the Killian's Dehiscence	C2						
124			Explain the Deglutition in detail	C2						
125		Tonsils and auditory tube	Explain Features and relations of tonsils and auditory tube with applied anatomy	C2						
126			Explain artries of tonsils and auditory tube	C2						
127			Explain development of tonsils and auditory tube	C2						
128	Discuss the tonsillectomy in detail		C2							
129	Discuss the waldeyer's ring and its applied anatomy		C2							
<b>TOPIC: NOSE &amp; PARANASAL SINUSES/ MAXILLARY NERVE &amp; PTERYGOPALATINE/ LARYNX</b>										
130	Week-12	Nose & Paranasal Sinuses	Explain the struture of Nasal septum	C2			Interactive Lecture/SGD	4	MCQ's	5
131			Discuss the lateral wall of nose with meatuses and chonchae	C2						
132			Describe the Nerve supply of nose and Paranasal sinuses	C2						
133			Describe the vascular supply of nose and Paranasal sinuses	C2						
134			Discuss the Littles's area	C2						
135			Explain the boundaries of pterygopalatine fossa	C2						
136		frontal, ethmoidal, sphenoidals applied anatomy	Discuss the Maxillary air sinusand other paranasal sinuses	C2						
137		Maxillary nerve & pterygopalatine	Explain course, branches, distribution and connection of Maxillary nerve and pterygopalatine distribution	C2						
138			Explain applied anatomy of Maxillary nerve and pterygopalatine	C2						
139			Discuss the relations of maxillary nerve	C2						



S.No	Weeks	Content	Learning Outcomes	Domain			MIT's	Hours	Assesment	No of Items
				C	P	A				
140	Week-13	Larynx	Discuss the cartilages and structures Larynx	C2			Interactive Lecture/SGD	4	MCQ's	5
141			Discuss the muscles of Larynx	C2						
142			Discuss the nerve supply of Larynx	C2						
143			Discuss the applied aspect of Larynx	C2						
144			Explain the movements of vocal cords	C2						
145			Discuss the Demo – Sagittal section of head and neck	C2						
146			Explain the mechanism of speech	C2						
<b>TOPIC: EAR/ PERIPHERAL PARASYMPATHETIC GANGLION CILIARY, OTIC, PTERYGOPALATINE AND SUBMANDIBULAR GANGLION</b>										
146	Week-14	Ear	Explain the parts of Ear	C2			Interactive Lecture/SGD	4	MCQ's	5
147			Discuss the struture of tympanic membrane	C2						
148			Explain middle ear cavity its boundaries and relations	C2						
149			Describe vascular supply of Inner ear	C2						
150			Describe nerve supply of Inner ear	C2						
151			Discuss the Inner ear	C2						
152			Explain the Ear ossicles	C2						
153			Discuss the mastoid antrum	C2						
154		Ciliary, otic, pterygopalatine and submandibular ganglion	Explain the features, connection, branches ciliary and otic ganglion with applied aspect.	C2						
155	Explain the features, connection, branches pterygopalatine and submandibular ganglion with applied aspect.		C2							
<b>TOPIC: CRANIAL NERVES</b>										
156	Week-15	III, IV, VI	Explain the functional components, course, branches, distributions of III, IV, VI cranial nerves with its applied aspect	C2			Interactive Lecture/SGD	4	MCQ's	5
157			Discuss the relations of III, IV, VI cranial nerves	C2						
158		VII	Explain the functional components, course, branches, distributions of VII cranial nerve with its applied aspect	C2						
159			Discuss the relations of VII cranial nerve	C2						
160		IX, X,XI,XII	Explain the functional components, course, branches, distributions of IX, X,XI,XII cranial nerves with its applied aspect	C2						
161			Discuss the relations of IX, X,XI,XII cranial nerves	C2						

S.No	Weeks	Content	Learning Outcomes	Domain			MIT's	Hours	Assesment	No of Items
				C	P	A				
<b>TOPIC: CRANIAL CAVITY/ CAVERNOUS SINUS</b>										
162	Week-16	Cranial cavity	Discuss the folds of dura mater and dural venous sinuses with their applied aspect	C2			Interactive Lecture/SGD	4	MCQ's	5
163			Explain the struture of sphenoparital sinus	C2						
164			Discuss the basilar venous plexus	C2						
165		Cavernous sinus	Discuss the location, relations, tributaries and communications cavernous sinus with applied aspect	C2						



# AUD-612 MEDICAL AUDIOLOGY-I

## 4(4-0)

### Course Description

This course covers the introduce risk factor , symptoms and pathogenesis of various diseases related to external , middle and inner ear.

### Cognitive Domain

By the end of this subject, students should be able to:

1. **Explain different types of hearing loss**
2. **Discuss different diseases of external ear**
3. **Discuss different diseases of middle ear**
4. **Discuss different diseases of inner ear**
5. **Correlate sign and symptoms with diseases of ear**
6. **Justify possible diagnostic option for diseases of ear**
7. **Discuss audiometric findings for diseases of ear**

### Affective Domain

By the end of this subject, students should be able to:

1. **Follow the specified norms of the IL, SGD teaching & learning.**
2. **Demonstrate the humbleness and use the socially acceptable language during academic and social interactions with human models, colleagues and teachers.**
3. **Demonstrate ethically competent decisions when confronted with an ethical, social or moral problem related to professional or personal life.**

**AUD-612 MEDICAL AUDIOLOGY-I 4(4-0)**

S.No	Weeks	Content	Learning Outcome	Domain			MIT's	Time/Hours	Assesment	No of Items
				C	P	A				
TOPIC: TYPES OF HEARING LOSS										
1	Week-1	Conductive hearing	Explain conductive hearing loss	C2			Interactive Lecture/SGD	4	MCQ's	5
2		Sensorineural hearing	Describe sensorineural hearing loss	C2						
3		Mixed hearing	Discuss mixed hearing loss	C2						
4		Behavior	Participate in group discussion			A	Role Play	Formative		
TOPIC: DISEASES OF EXTERNAL EAR										
5	Week-2		Correlate audiological findings and management	C2			Interactive Lecture/SGD	4	MCQ's	5
6		Congenital Malformation	Explain Anotia and its stages in detail	C2						
7			Explain Microtia and its stages in detail	C2						
8		Behavior	Participate in group discussion			A	Role Play	Formative		
9	Week-3		Discuss the Macrotia and its causes in detail	C2			Interactive Lecture/SGD	4	MCQ's	5
10		Congenital Malformation	Discuss the Bat ear deformity	C2						
11			Explain the Cup ear	C2						
12		Behavior	Participate in group discussion			A	Role Play	Formative		
13	Week-4	Traumatic Lesion	Explain the Haematoma	C2			Interactive Lecture/SGD	4	MCQ's	5
14			Discuss the Laceration	C2						
15			Discuss the Avulsion of pinna	C2						
16		Behavior	Participate in group discussion			A	Role Play	Formative		
17	Week-5	Traumatic Lesion	Explain the frostbite	C2			Interactive Lecture/SGD	4	MCQ's	5
18		Inflammatory Disease	Describe the perichondritis	C2						
19			Describe the chondrodermatitis	C2						
20		Behavior	Participate in group discussion			A	Role Play	Formative		
TOPIC: DISEASES OF MIDDLE EAR										
21	Week-6		Explain the etiology of diseases of middle ear	C2			Interactive Lecture/SGD	4	MCQ's	5
22			Discuss the route of infection in middle ear	C2						
23			Explain the predisposing factors in middle ear diseases	C2						
24		Behavior	Participate in group discussion			A	Role Play	Formative		



S.No	Weeks	Content	Learning Outcome	Domain			MIT's	Time/ Hours	Assesment	No of Items
				C	P	A				
25	Week-7	Congenital Malformation	Explain pathology of Congenital Malformation	C2			Interactive Lecture/SGD	4	MCQ's	5
26			Discuss the clinical features Congenital Malformation	C2						
27		Traumatic Lesions	Discuss treatment option for traumatic lesion	C2						
28		Behavior	Participate in group discussion			A				
29	Week-8	Inflammatory Diseases	Discuss the acute necrotizing otitis media	C2			Interactive Lecture/SGD	4	MCQ's	5
30			Discuss the otitis media with effusion	C2						
31		Nonsuppurative Otitis Media	Explain the acute suppurative otitis media	C2						
32		Behavior	Participate in group discussion			A				
33	Week-9	Suppurative Otitis Media	Discuss chronic suppurative otitis media	C2			Interactive Lecture/SGD	4	MCQ's	5
34			Explain complication of suppurative otitis media	C2						
35		Neoplasms	Explain the neoplasms.	C2						
36		Behavior	Participate in group discussion			A				
TOPIC: DISEASES OF INNER EAR										
37	Week-10		Explain clinical features inner ear diseases	C2			Interactive Lecture/SGD	4	MCQ's	5
38			Discuss possible Diagnosis option for inner ear diseases	C2						
39			Correlate treatment option for inner ear diseases	C4						
40		Behavior	Participate in group discussion			A				
41	Week-11	Congenital Malformation	Correlate clinical features of Congenital Malformation with pathology	C4			Interactive Lecture/SGD	4	MCQ's	5
42			Correlate clinical features of Congenital Malformation with proposed treatment plan	C4						
43		Behavior	Participate in group discussion			A				
44	Week-12	Sudden Hearing Loss	Explain Clinical features of Sudden Hearing Loss	C2			Interactive Lecture/SGD	4	MCQ's	5
45			Interpret Audiometric findings for Sudden Hearing Loss	C2						
46			Discuss treatment options for Sudden Hearing Loss	C2						
47		Behavior	Participate in group discussion			A				
48	Week-13	Meneirs Disease	Discuss the audiometric findings for Meneirs Disease	C2			Interactive Lecture/SGD	4	MCQ's	5
49			Explain diagnostic pathway for Meneirs Disease	C2						
50			Discuss treatment options for Meneirs Disease	C2						
51		Behavior	Participate in group discussion			A				

S.No	Weeks	Content	Learning Outcome	Domain			MIT's	Time/Hours	Assesment	No of Items
				C	P	A				
52	Week-14	Noise Induced Hearing Loss	Discuss audiometric findings for Noise Induced Hearing Loss	C2			Interactive Lecture/SGD	4	MCQ's	5
53			Discuss possible Diagnosis option for Induced Hearing Loss	C2						
54			Discuss treatment options for Induced Hearing Loss	C2						
55		Behavior	Participate in group discussion			A	Role Play		Formative	
56	Week-15	Acoustic Trauma	Discuss diagnosis of Acoustic Trauma	C2			Interactive Lecture/SGD	4	MCQ's	5
57		Ototoxicity	Explain ototoxic drugs and their complications	C2						
58		Behavior	Participate in group discussion			A				
59	Week-16	Presbycusis	Discuss audiometric findings for Presbycusis	C2			Interactive Lecture/SGD	4	MCQ's	5
60			Discuss criteria for hearing aids selection	C2						
61		Traumatic Lesion	Expalin clinical features fot traumatic lesion	C2						
62		Behavior	Participate in group discussion			A	Role Play		Formative	



## RSC-626 SOCIOLOGY 2(2-0)

### Course Description

This course covers the basic knowledge and concepts of sociology to with the aim to help them understand the impact of group, culture and environment on the behavior and health of the patients. Make them realize the importance of the relationship of the therapist and the patient and the environment around them

### Cognitive Domain

By the end of this subject, students should be able to:

1. **Explain concepts central to sociology and understand development of different sociological perspective**
2. **Discuss theoretical perspective of sociology in workplace.**
3. **Classify sociological groups and their subtypes**
4. **Explain components of culture and its different concepts relating to society.**
5. **Discuss the importance of socialization both for individuals and society.**
6. **Explain and understand deviance and crime in society in the light of different sociological theories.**
7. **Explain different stratification systems.**

### Affective Domain

By the end of this subject, students should be able to:

1. **Follow the specified norms of the IL, SGD teaching & learning.**
2. **Demonstrate the humbleness and use the socially acceptable language during academic and social interactions with colleagues and teachers.**
3. **Demonstrate ethically competent decisions when confronted with an ethical, social or moral problem related to professional or personal life.**



**RSC-626 SOCIOLOGY 2(2-0)**

S.No	Weeks	Content	Learning Outcome	Domain			MIT's	Time/Hours	Assesment	No of Items
				C	P	A				
TOPIC: INTRODUCTION/ HISTORY OF SOCIOLOGY/										
1	Week-1	Introduction	Explain concepts central to sociology and understand development of different sociological perspective	C2			Interactive Lecture/SGD	2	MCQ's	5
2		History	Discuss why sociology emerged and became a separate academic discipline	C2						
TOPIC: THEORETICAL PERSPECTIVE/ SOCIOLOGY IN WORKPLACE										
3	Week-2	Theoretical Perspective	Illustrate similarities and differences between different perspectives	C2			Interactive Lecture/SGD	2	MCQ's	5
4		Workplace	Identify ways sociology is applied in real world	C2						
TOPIC: SOCIAL ACTION AND SOCIAL INTERACTION/ SOCIAL PROCESS										
5	Week-3	Social Interaction	Explain how individuals present and perceive themselves in a social context	C2			Interactive Lecture/SGD	2	MCQ's	5
6		Social Process	Illustrate the role of environment and people in social change.	C2						
7	Week-4	Elements of social structure	Describe roles and their place in people's daily interactions	C2			Interactive Lecture/SGD	2	MCQ's	5
TOPIC: SOCIAL GROUPS										
8	Week-5	Types of groups	Classify the two sociological groups and their subtypes	C2			Interactive Lecture/SGD	2	MCQ's	5
9		Group size and structure	Discuss group size influence group dynamics and styles of leadership.	C2						
10	Week-6	Formal Organization	Recognize different types and characteristic of formal organization.	C2			Interactive Lecture/SGD	2	MCQ's	5
TOPIC: CULTURE										
11	Week-7		Explain components of culture and its different concepts relating to society.	C2			Interactive Lecture/SGD	2	MCQ's	5
12		Elements of culture	Explain how values and beliefs differ from norms and significance of symbols and language to a culture	C2						
TOPIC: SOCIALIZATION										
13	Week-8	Socialization	Discuss the importance of socialization both for individuals and society.	C2			Interactive Lecture/SGD	2	MCQ's	5
14			Explain the nature versus nurture.	C2						



S.No	Weeks	Content	Learning Outcome	Domain			MIT's	Time/Hours	Assesment	No of Items
				C	P	A				
TOPIC: SOCIALIZATION										
15	Week-9	Theories of development	Illustrate the difference between psychological and sociological theories of self development and the process of moral development	C2			Interactive Lecture/SGD	2	MCQ's	5
16	Week-10	Agents of socialization	Identify the roles of families and peer groups in socialization	C1			Interactive Lecture/SGD	2	MCQ's	5
17			Describe how we are socialized through formal institutions.	C2						
TOPIC: DEVIANCE AND SOCIAL CONTROL										
18	Week-11	Deviance	Define deviance	C1			Interactive Lecture/SGD	2	MCQ's	5
19			Explain the nature of deviant behavior	C2						
20	Week-12	social control	Explain methods of social control	C2			Interactive Lecture/SGD	2	MCQ's	5
21	Week-13	Theoretical perspective on deviance	Explain and understand deviance and crime in society in the light of different sociological theories.	C2			Interactive Lecture/SGD	2	MCQ's	5
TOPIC: SOCIAL STRATIFICATION										
22	Week-14	stratification	Identify different stratification systems.	C1			Interactive Lecture/SGD	2	MCQ's	5
23		Social mobility	Describe several types of social mobility	C2						
			Explain characteristics that define and identify class.	C2						
24	Week-15	Medical Sociology	Define the term medical Sociology	C2			Interactive Lecture/SGD	2	MCQ's	5
25		Cultural meaning of illness	Discuss the cultural meaning of illness and social construction of illness	C2						
26	Week-16	Doctor-patient relationship	Discuss about the patient keeping in view the cultural content.	C2			Interactive Lecture/SGD	2	MCQ's	5

# AUD -613 BASIC PATHOLOGY 3(3-0)

## Course Description

To introduce the student to the general principles of Pathology. Students will develop an understanding of pathology underlying clinical disease states and involving the major organ systems. Epidemiological issues will be presented and discussed.

Students will learn to recognize pathology signs and symptoms that are considered "red flags" for serious disease. Students will use problem-solving skills and information about pathology to decide when referral to another health care provider or alternative intervention is indicated. Students will be expected to develop the ability to disseminate pertinent information and findings, and ascertain the appropriate steps to follow.

## Cognitive Domain

By the end of this subject, students should be able to:

1. **State the cause of common diseases presenting in the audiology clinic**
2. **Describe the signs, symptoms and progression of these diseases on a cellular, tissue, system and whole body level**
3. **Classify diseases according to their cause, system affected or presentation**
4. **Discuss the process of cell injury and death**
5. **Describe inflammation at cellular and vascular level.**
6. **Discuss mechanisms of healing and repairs.**
7. **Explain the different diseases of immunity**

## Affective Domain

By the end of this subject, students should be able to:

1. **Demonstrate punctuality. Follow the specified norms of the IL, SGD teaching & learning.**
2. **Demonstrate the humbleness and use the socially acceptable language during academic and social interactions with human models, colleagues and teachers.**
3. **Demonstrate ethically competent decisions when confronted with an ethical, social or moral problem related to professional or personal life.**

**AUD -613 BASIC PATHOLOGY 3(3-0)**

S.No	Weeks	Content	Learning Outcome	Domain			MIT's	Time/ Hours	Assesment	No of Items
				C	P	A				
TOPIC: CELL INJURY AND DEATH										
1	Week-1	Cell injury	Describe the causes of cell injury	C2			Interactive Lecture/SGD	3	MCQ's	5
2			Discuss the process of Necrosis	C2						
3		Behavior	Participate in group discussion			A	Role Play		Formative	
4	Week-2	Apoptosis	Explain the Apoptosis in detail	C2			Interactive Lecture/SGD	3	MCQ's	5
5		Subcellular response	Discuss the subcellular response to injury	C2						
6		Behavior	Participate in group discussion			A	Role Play		Formative	
TOPIC: INFLAMMATION										
7	Week-3	Vascular events	Explain the Vascular events in acute inflammtion	C2			Interactive Lecture/SGD	3	MCQ's	5
8		Cellular events	Explain the cellular events in acute inflammtion	C2						
9		Chemical mediators	Discuss the chemical mediators	C2						
10		Morphologic patterns	Describe the morphologic patterns of acute inflammation	C2						
11		Behavior	Participate in group discussion			A				
12	Week-4	Chronic inflammation	Explain general features of chronic inflammation	C2			Interactive Lecture/SGD	3	MCQ's	5
13		Granulomatous	Explain in detail granulomatous inflammation	C2						
14		Morphologic patterns	Describe morphologic patterns of chronic inflammation	C2						
15		Behavior	Participate in group discussion			A				
TOPIC: HEALING AND REPAIR										
16	Week-5	Normal control	Describe the normal controls in healing and repair	C2			Interactive Lecture/SGD	3	MCQ's	5
17		Repair process	Explain repair process by connective tissue	C2						
18		Wound healing	Describe wound healing	C2						
19		Behavior	Participate in group discussion			A				
TOPIC: HAEMODYNAMIC DISORDERS										
20	Week-6	Edema	Explain edema and its types	C2			Interactive Lecture/SGD	3	MCQ's	5
21		Hyperemia/Congestion	Differentiate between Hyperemia and congestion	C4						
22		Hyperemia	Describe Hyperaemia	C2						
23			Expain types of Hyperaemia	C2						
24		Behavior	Participate in group discussion			A				

S.No	Weeks	Content	Learning Outcome	Domain			MIT's	Time/Hours	Assesment	No of Items
				C	P	A				
25	Week-7	Hemorrhage	Explain hemorrhage and its classification	C2			Interactive Lecture/SGD	3	MCQ's	5
26		Thrombosis	Discuss thrombosis and its types	C2						
27		Behavior	Participate in group discussion			A				
28	Week-8	Embolism	Explain embolism and its types	C2			Interactive Lecture/SGD	3	MCQ's	5
29		Infarction	Discuss Infarction in detail	C2						
30		Shock	Descibe pathophysiology of Shock	C2						
31		Behavior	Participate in group discussion			A				
TOPIC: DISEASES OF IMMUNITY										
32	Week-9	General features	Describe general features of disease of immunity	C2			Interactive Lecture/SGD	3	MCQ's	5
33		Hypersensitivity	Explain the hypersensitivity reactions	C2						
34		Behavior	Participate in group discussion			A				
35	Week-10	Immune deficiencies	Explain Immune deficiencies and its types	C2			Interactive Lecture/SGD	3	MCQ's	5
36		Autoimmunity	Describe the process of autoimmunity							
37		Amyloidosis	Explain Amyloidosis causes and symptoms	C2						
38		Behavior	Participate in group discussion			A				
TOPIC: NEOPLASIA										
39	Week-11	Nomenclature	Describe the nomenclature of neoplasia	C2			Interactive Lecture/SGD	3	MCQ's	5
40		Molecular basis	Explain the molecular basis neoplasia	C2						
41		Behavior	Participate in group discussion			A				
42	Week-12	Carcinogenic agents	Discuss the carcinogenic agents in neoplasia	C2			Interactive Lecture/SGD	3	MCQ's	5
43		Clinical aspects	Explain the clinical aspects neoplasia	C2						
44		Behavior	Participate in group discussion			A				
45	Week-13	Benign cancers	Explain benign cancers of head and neck.	C2			Interactive Lecture/SGD	3	MCQ's	5
46		Malignant cancers	Explain malignant cancers of head and neck.	C2						
47		Behavior	Participate in group discussion			A				
TOPIC: COMMON PATHOLOGIES										
48	Week-14	Oral cavity	Discuss the pathologies of Oral cavity	C2			Interactive Lecture/SGD	3	MCQ's	5
49		GIT	Describe the Pathology of GIT	C2						
50		Behavior	Participate in group discussion			A				



S.No	Weeks	Content	Learning Outcome	Domain			MIT's	Time/ Hours	Assesment	No of Items
				C	P	A				
51	Week-15	Respiratory system	Explain pathology of respiratory system	C2			Interactive Lecture/SGD	3	MCQ's	5
52		CNS	Explain pathology of CNS	C2						
53		Behavior	Participate in group discussion			A	Role Play	Formative		
54	Week-16	CVS	Describe Pathology of CVS.	C2			Interactive Lecture/SGD	3	MCQ's	5
55		Heart	Describe Pathology of heart	C2						
56		Behavior	Participate in group discussion			A	Role Play	Formative		

# RSC-615 ISLAMIC STUDIES / ETHICS 2(2-0)

## Course Description

This course is aimed at To provide Basic information about Islamic Studies. IT enhance understanding of the students regarding Islamic Civilization. This course will improve Students skill to perform prayers and other worships. it also help and enhance the skill of the students for understanding of issues related to faith and religious life.

## Cognitive Domain

By the end of this subject, students should be able to:

1. **Discuss Pre-Islamic Arabia and Arabs**
2. **Describe the life and times of prophet Muhammad PBUH before prophet-hood.**
3. **Discuss the necessity of Divine guidance in the light of Quran.**
4. **Discuss concept of state in Islam**
5. **Discuss Prophet's mission in medina (Post Hijra Period)**
6. **Explain the concept of worship and spread of Islam**
7. **Explain the moral law of Islam (Qaanon - E - Ikhaq)**

## Affective Domain

By the end of this subject, students should be able to:

1. **Demonstrate punctuality.**
2. **Follow the specified norms of the IL, SGD teaching & learning.**
3. **Demonstrate the humbleness and use the socially acceptable language during academic and social interactions with colleagues and teachers.**
4. **Demonstrate ethically competent decisions when confronted with an ethical, social or moral problem related to professional or personal life.**

**TOS -RSC-615 ISLAMIC STUDIES / ETHICS 2(2-0)**

S.No	Weeks	Content	Learning Outcome	Domain			MIT's	Time/ Hours	Assesment	No of Items
				C	P	A				
<b>TOPIC: THE PRE-ISLAMIC ARABIA AND THE ARABS</b>										
1	Week-1	Geography	Discuss the geography of Arabia	C2			Interactive Lecture/SGD	2	MCQ's	5
2		Peninsula	Explain peninsula	C2						
3		Nature of nomadic life	Discuss a nomadic life	C2						
4	Week-2	Trade	Explain the source of income of the Arabs	C2			Interactive Lecture/SGD	2	MCQ's	5
5		Religion, Politics.	Explain the life of romans.	C2						
6			Discuss the life of Persians.	C2						
7		Discuss the life of Egyptians.	C2							
8	Week-3	Concept of ignorance, Contemporary view.	Discuss the need of change in the age of ignorance	C2			Interactive Lecture/SGD	2	MCQ's	5
<b>TOPIC: THE LIFE AND TIMES OF PROPHET MUHAMMAD PBUH BEFORE PROPHETHOOD.</b>										
9	Week-4	Idol worship,Slavery, Female infanticide, Injustice,Discrimination, Tribal system.	Discuss the social order of the Arabs	C2			Interactive Lecture/SGD	2	MCQ's	5
10	Week-5	Purpose, Promised prophet, Secular level, Religious level.	Discuss the role of prophet.	C2			Interactive Lecture/SGD	2	MCQ's	5
11		570 AC Year of elephants. Quran's view of history.	Describe the major event in the year of birth	C2						
12	Week-6	Idol worship. The Family of Quraysh.	Discuss the background of idol worship.	C2			Interactive Lecture/SGD	2	MCQ's	5
13		Monotheist,Darunadwa,1st business trip,1st marriage Role of Abu talib, Illiterate prophet, Non gentile, In the cave.	Discuss the life of prophet Muhammad before prophet hood.	C2						
<b>TOPIC: THE NECESSITY OF DIVINE GUIDANCE IN THE LIGHT OF QURAN.</b>										
14	Week-7	Questions, Problems, Solutions, Contemporary view.	Discuss the need for divine guidance.	C2			Interactive Lecture/SGD	2	MCQ's	5
15		Reason, Science, Philosophy, Contemporary discoveries in the fields of science.	Discuss revelation with intellect.	C2						



S.No	Weeks	Content	Learning Outcome	Domain			MIT's	Time/Hours	Assesment	No of Items
				C	P	A				
16	Week-8	Introduction, Temporary, Fabrication, Invalidity	Discuss Quran's view about the precious books	C2			Interactive Lecture/SGD	2	MCQ's	5
TOPIC: STATE IN ISLAM										
17	Week-9	Oral Tradition, Compilation, Preservation and propagation, Authenticity, Finality, Itmam e hujjat	Explain the process of perfection of the Qur'an.	C2			Interactive Lecture/SGD	2	MCQ's	5
18		Metaphorical, Makah surahs, Medina surah.	Discuss the style and structure of Qur'an	C2						
19		Definition, Its role in the early development of Islamic narrative, Contemporary world.	Discuss the scope of interfaith.	C2						
TOPIC: PROPHET'S MISSION IN MEDINA (POST HIJRA PERIOD)										
20	Week-10	Territory, Climate, Agriculture, The Ansar	Analyze the territory medina	C2			Interactive Lecture/SGD	2	MCQ's	5
21		Background, Significance, Scope.	Discuss the hijrah	C2						
22	Week-11	Change of qibla, Inter religious dialogue.	Discuss the qibla controversy.	C2			Interactive Lecture/SGD	2	MCQ's	5
23		Chief hypocrite.	Discuss the role of hypocrites	C1						
24		Incident of necklace.	Explain the moral teachings of Islam	C1						
25	Week-12	Banu Israel Difference between jews and banu Israel.	Discuss the history of the Jews (of medina).	C2			Interactive Lecture/SGD	2	MCQ's	5
26		Introduction, Significance, Sovereignty, Adam A.S and satan.	Discuss the concept of khilafat.	C2						
27		Purpose, Charter of medina People of the book, The Khilafat e Rashida period.	Discuss the concept of state.	C2						

S.No	Weeks	Content	Learning Outcome	Domain			MIT's	Time/Hours	Assesment	No of Items
				C	P	A				
<b>TOPIC: THE CONCEPT OF WORSHIP AND SPREAD OF ISLAM</b>										
28	Week-13	Definition, Scope, Philosophy of Unity. (TAWHEED)	To discuss the concept of worship	C2			Interactive Lecture/SGD	2	MCQ's	5
29		Spiritual Aspect,Social Aspect.	Discuss the scope of Namaz	C2						
30			Discuss the scope of Zakaat	C2						
31			Discuss the scope of hajj	C2						
32	Week-14	Preaching and Persuasion. Concept of IKRAH	Discuss the concept of da'wah	C2			Interactive Lecture/SGD	2	MCQ's	5
33		Letters of the prophet to the kings.	Discuss the letters of the prophet to the kings.	C2						
34		Purpose of da'wah.	Explain the purpose of da'wah.	C2						
35		From Medina to idea of Pakistan.	Explain the spread of Islam.	C2						
36		Purpose of da'wah.	Explain the purpose of da'wah.	C2						
<b>TOPIC: THE MORAL LAW OF ISLAM (QAANON - E - IKHAQ)</b>										
37	Week-15	Purpose of creation. Believe in Allah Believe in the last prophet	Discuss the purpose of creation.	C2			Interactive Lecture/SGD	2	MCQ's	5
38		Individual human rights.	Explain the basic rights of individual human.	C2						
39		Ethics	Discuss the importance of ethics	C2						
40	Week-16	Equality,Justice, Brotherhood, Respect, Empowerment	Discuss the dignity of human life	C2			Interactive Lecture/SGD	2	MCQ's	5
41		International level.	Explain the scope of Islam	C2						
42		Amar bil maroof, Nahi anil munkar, Hadd, Ta'zir, Role of qazi OR judge	Discuss the moral of Islam.	C2						

## RSC-614 ENGLISH-II 3(3-0)

### Course Description

The course gives a thorough understanding of the four skills: listening, speaking, reading and writing with special focus on skimming, scanning, intensive and extensive reading and presentation skill. In addition it encompasses the letter writing: memorandum, meeting minutes, job application and CV to assist them in their real life communication needs.

### Cognitive Domain

By the end of this subject, students should be able to:

1. **Distinguish Descriptive, narrative, expository and Narrative Paragraphs**
2. **Differentiate Narrative, Descriptive, Reflective and Expository Essay**
3. **Design the format of Job Application**
4. **Understand the types of translation**
5. **Discuss Skimming and Scanning, intensive and Extensive, and speed reading**
6. **Construct a formal format of letter and memo**
7. **Differentiate Letter and Memo**
8. **Understand the Do's and Don'ts in Presentation**

### Skills Domain

By the end of this subject, students should be able to:

1. **Practice on general topics and every-day conversation with questions answers sessions.**
2. **Give presentations individually and in groups to showcase the latent talent**
3. **Organize the procedure to improve their communication skills**

### Affective Domain

By the end of this subject, students should be able to:

1. **punctuality. Follow the specified norms of the IL, SGD teaching & learning.**
2. **Demonstrate the humbleness and use the socially acceptable language during academic and social interactions with human models, colleagues and teachers.**
3. **Demonstrate ethically competent decisions when confronted with an ethical, social or moral problem related to professional or personal life.**

**TOS -RSC-614 ENGLISH-II 3(3-0)**

S.No	Weeks	Content	Learning Outcome	Domain			MIT's	Time/Hours	Assesment	No of Items
				C	P	A				
<b>TOPIC: PARAGRAPH WRITING</b>										
1	Week-1	Definition	Define Paragraph	C1			Interactive Lecture/SGD	3	MCQ's	5
2		Principles	Explain Unity, Order and Variety of Paragraph	C2						
3		Structure/Organization	Identify Topic sentence, supporting sentences and concluding sentence	C2						
4		Loose and Periodic Sentences	Discuss Loose and Periodic Sentences.	C2						
5	Week-2	Types	Distinguish Descriptive, narrative, expository and Narrative Paragraphs	C4			Interactive Lecture/SGD	3	MCQ's	5
6		Essentials	Discuss echo words, connectives and diction in paragraph writing	C2						
<b>TOPIC: ESSAY WRITING</b>										
7	Week-3	Writing process	Explain writing process	C2			Interactive Lecture/SGD	3	MCQ's	5
8		Introduction	Explain Essay Writing							
9		Planning	Explain Brainstorming, Clustering, outline and Thesis Statement in Essay	C2						
10	Week-4	Essentials	Explain Unity, coherence and Balance/Proportion of an Essay	C2			Interactive Lecture/SGD	3	MCQ's	5
11		Structure/Format	Understand Introduction, Body and Conclusion of an Essay							
12	Week-5	Tone and Diction	Comprehend the tone and diction of an essay	C2			Interactive Lecture/SGD	3	MCQ's	5
13		Classes	Differentiate Narrative, Descriptive, Reflective and Expository Essay	C4						
<b>TOPIC: CV AND JOB APPLICATION</b>										
14	Week-6	Definition	Define CV and Job Application	C1			Interactive Lecture/SGD	3	MCQ's	5
15		CV Format	Design the format of CV	C6						
16		Job Application Format	Design the format of Job Application	C6						
17		Function	Understand the use of CV and Job Application	C2						
18	Week-7	Do's and Don'ts	Discuss the Do's and Don'ts in CV and Job Application	C2			Interactive Lecture/SGD	3	MCQ's	5
19		Differentiation	Differentiate CV and Résumé	C4						
<b>TOPIC: TRANSLATION SKILLS</b>										

S.No	Weeks	Content	Learning Outcome	Domain			MIT's	Time/Hours	Assesment	No of Items
				C	P	A				
20	Week-8	Definition	Define Translation	C1			Interactive Lecture/SGD	3	MCQ's	5
21		Function	Explain the function of translation	C2						
22		Classification	Understand the types of translation	C2						
TOPIC: PARAGRAPH WRITING										
23	Week-9	Exercise	Translate Idiomatic texts from Urdu to English	C2			Interactive Lecture/SGD	3	MCQ's	5
24		Meaning Types	Discuss different shades of meaning	C2						
25		Practice	Practice on translating texts from Source to Target Language		P4					
TOPIC: STUDY SKILLS										
26	Week-10	Reading Process	Understand the Reading Process	C2			Interactive Lecture/SGD	3	MCQ's	5
27		Types of reading	Discuss Skimming and Scanning, intensive and Extensive, and speed reading	C2						
28		Comprehension procedure	Explain Comprehension and its procedure	C2						
29		Definition	Define Summary and précis writing	C1						
30		Essentials	Know the essentials in Summary and précis writing	C2						
31		Differentiation	Differentiate summary and précis	C4						
32	Week-11	Practice	Practice on different reading exercises		P4		Demo	Formative assessment		
TOPIC: ACADEMIC SKILLS										
33	Week-12	Introduction	Introduce academic skills	C1			Interactive Lecture/SGD	3	MCQ's	5
34		Formal Format	Construct a formal format of letter and memo	C6						
35		Differentiation	Differentiate Letter and Memo	C4						
36	Week-13	Abbreviation in formal letter	Understand the abbreviations used in writing a formal letter	C2			Interactive Lecture/SGD	3	MCQ's	5
37		Definition	Define Minutes of meeting	C1						
38		Contents in Meeting Minutes	Discuss the contents of meeting minutes	C2						
39	Week-14	Importance	Know the Importance of library and internet	C2			Interactive Lecture/SGD	3	MCQ's	5
40		Practice	Utilize the Library and internet		P4					
TOPIC: PRESENTATION SKILLS										



S.No	Weeks	Content	Learning Outcome	Domain			MIT's	Time/ Hours	Assesment	No of Items
				C	P	A				
41	Week-15	Definition	Define Presentation Skills	C1			Interactive Lecture/SGD	3	MCQ's	5
42		Types	Discuss different types of presentation	C2						
43		Structure	Explain the structure presentation	C2						
44		Essentials	Discuss the stage fright and its antidotes	C2						
45		Do's and Don'ts in Presentation	Understand the Do's and Don'ts in Presentation	C2						
46	Week-16	Practice	Give presentations individually and in groups to showcase the latent talent		P4		Demo	3	Formative assessment	5
47		Body Language	Communicate through body language		P1					
48		Communication Skills	Organize the procedure to improve their communication skills			A				
49		Q & A Session	Respond to different questions in the Q & A session			A				

## Recommended Text Books

### HEAD AND NECK ANATOMY

- Neuroanatomy by Richard S. Snell.
- Anatomy by Ross and Wilson
- BD Chaurasia Human Anatomy, 8th edition

### MEDICAL AUDIOLOGY

- Dhingra ENT 7th Edition
- Essentials of Audiology by Gilfrend 4th Edition

### SOCIOLOGY

- Text book of Community Medicine by: Park J. E. Latest Edition
- David, Tucket (ed), 1976, An Introduction to Medical Sociology, Lahore, Tavistock Publication.
- Horton, Paul B. and Chester L. Hunt, 1984 Sociology, Singapore: McGraw Hill Book Co.
- Moon, Graham, 1995. Society and Health; An introduction to Social Science for Professionals, London: Routledge.
- Smelter Heil J. 1993. Sociology, New Delhi, Prentice Hall of India:

### BASIC PATHOLOGY

- Robbins Basic Pathology - 10th Edition - Elsevier

### ISLAMIC STUDIES/ ETHICS

- Hameed ullah Muhammad, "Emergence of Islam" , IRI, Islamabad
- Hameed ullah Muhammad, "Muslim Conduct of State"
- Hameed ullah Muhammad, "Introduction to Islam"

- Mulana Muhammad Yousaf Islahi,"
- Hussain Hamid Hassan, "An Introduction to the Study of Islamic Law" leaf Publication Islamabad, Pakistan.
- Ahmad Hasan, "Principles of Islamic Jurisprudence" Islamic Research Institute, International Islamic University, Islamabad (1993)
- Mir Waliullah, "Muslim Jurisprudence and the Quranic Law of Crimes" Islamic Book Service (1982)
- H.S. Bhatia, "Studies in Islamic Law, Religion and Society" Deep & Deep Publications New Delhi (1989)
- Dr. Muhammad Zia-ul-Haq, "Introduction to Al Sharia Al Islamia" Allama Iqbal Open University, Islamabad (2001)

### ENGLISH

- Practical English Grammar by A.J. Thomson and A.V. Martinet. Exercises 1. Third edition. Oxford University Press. 1997. ISBN 0194313492
- Practical English Grammar by A.J. Thomson and A.V. Martinet. Exercises 2. Third edition. Oxford University Press. 1997. ISBN 0194313506
- Writing. Intermediate by Marie-Christine Boutin, Suzanne Brinand and Françoise Grellet. Oxford Supplementary Skills. Fourth Impression 1993. ISBN 0 19 435405 7 Pages 20-27 and 35-41.
- Reading. Upper Intermediate. Brian Tomlinson and Rod Ellis. Oxford Supplementary Skills. Third Impression 1992. ISBN 0 19 453402 2.
- Reading. Advanced. Brian Tomlinson and Rod Ellis. Oxford Supplementary Skills. Third Impression 1991. ISBN 0 19 453403 0.
- Reading and Study Skills by John Langan
- Study Skills by Richard Yorky.







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