



Jordan Univesity of Science & Technology
Faculty of Applied Medical Sciences

Curriculum for the Bachelor's Degree
In
AUDIOLOGY & SPEECH PATHOLOGY

2024



About the Program

Vision

Mission

Objectives

Outcomes



The University Codes are as follows:

Code	Department
MED	DOCTOR OF MEDICINE (MD)
AS	AUDIOLOGY & SPEECH PATHOLOGY
LM	ALLIED MEDICAL SCIENCES
HSS	BASIC SCIENCES AND HUMANITIES
P.T	PHYSICAL THERAPY
LG	language center
NUR	NURSING
BT	BIOTECHNOLOGY & GENETIC ENGINEERING
CHEM	CHEMISTRY
PH	PUBLIC HEALTH

Study Plan of The Bachelor's Degree in AUDIOLOGY & SPEECH PATHOLOGY

The Bachelor's Degree in AUDIOLOGY & SPEECH PATHOLOGY is awarded from Department of Rehabilitation Sciences at the Faculty of Applied Medical Sciences in Jordan University of Science & Technology (JUST) after the successful completion of 136 credit hours distributed as shown in the following table:

Requirements	Credit Hours		
	Compulsory Hours	Elective Hours	Total
University Requirements	16	9	25
Faculty Requirements	17	0	17
Department Requirements	94	0	94
Total	127	9	136

After fulfilling the requirements stipulated in the instructions for granting a Bachelor's degree (revised edition) at the Jordan university of Science and Technology issued by the Dean's Council abiding by the regulation concerned with issuing scientific degrees and diplomas at the Jordan university of Science and Technology for 1987.



Firstly: University Requirements

Allocated to it (25 CHs) as stipulated in the instructions for granting a bachelor's degree, distributed as follows:

- a. Compulsory Requirements (16 CHs)
- b. Elective Requirements (9 CHs)

Secondly: Faculty Requirements

Allocated to it (17 CHs) Compulsory as shown in the following table:

Course Number	Course Title	Credit Hours	Hrs Distribution		Prerequisite/Concurrent
			Theoritic	Lab	
MED230A	Human Physiology	3	3	0	HSS103BT.
MED230B	Human Physiology (Lab)	1	0	2	(MED230A OR Concurrent).
HSS103BT	General Biology	3	3	0	
HSS103CHEM	General Chemistry	3	3	0	
HSS311PH	Biostatistics	2	2	0	
HSS391PARA	Ethics In Applied Medical Careers	1	1	0	
HSS491LM	Scientific Research Methods	1	1	0	HSS311PH.
P.T218	Gross Anatomy & Histology	2	2	0	HSS103BT.
P.T220	Gross Anatomy And Histology (Lab)	1	0	2	Concurrent with P.T218.



Thirdly: Department Requirements

Allocated to it (94 CHs) Compulsory as shown in the following table:

Course Number	Course Title	Credit Hours	Hrs Distribution		Prerequisite/Concurrent
			Theoretic	Lab	
LM202	Pathology	3	3	0	P.T218 AND MED230A AND MED230B.
NUR252	Growth And Development	3	3	0	
HSS499LM	Graduation Project	3	0	3	
P.T226	Neuroscience (1)	2	2	0	P.T218 AND MED230A.
P.T228	Neuroscience (1) (Lab)	1	0	2	(P.T226 OR Concurrent).
AS102	Introduction To Audiology &Speech Pathology	2	2	0	
AS122	Medical Speech Pathology	1	1	0	
AS201	Special Education And Learning Disabilities	2	2	0	
AS202	Clinical Psychology	1	1	0	
AS221	Anatomy And Physiology Of Speech	2	2	0	(P.T218 OR Concurrent).
AS223	Anatomy And Physiology Of Speech Practical	1	0	2	Concurrent with AS221.
AS225	Anatomy And Physiology Of Hearing	1	1	0	(P.T218 OR Concurrent).
AS232	Neurogenic Speech Disorders	1	1	0	AS122 AND AS221.
AS234	Neurogenic Speech Disorders Practical	1	1	2	Concurrent with AS232.
AS236	Acoustics	1	1	0	LG103AS.
AS331	Articulation And Phonological Disorders	2	2	0	LG281A S.
AS332	Swallowing Disorders	1	1	0	AS221.
AS333	Articulation And Phonological Disorders Practical	1	0	2	Concurrent with AS331.
AS334	Swallowing Disorders Practical	1	0	2	Concurrent with AS332.
AS336	Fluency Disorders	1	1	0	AS102.
AS338	Fluency Disorders Practical	1	0	2	Concurrent with AS336.
AS342	Language Disorders	1	1	0	LG302A S.
AS344	Language Disorders Practical	1	0	2	Concurrent with AS342.
AS351	Audiological Evaluation (1)	1	1	0	AS225.
AS352	Audiological Evaluation (2)	1	1	0	AS351.
AS353	Audiological Evaluation 1 Practical	1	0	2	Concurrent with AS351.
AS354	Audiological Evaluation 2 Practical	1	0	2	Concurrent with AS352.
AS362	Hearing Aids	1	1	0	AS351.
AS364	Hearing Aids (Practical)	1	0	2	Concurrent with AS362.
AS371	Clinical Practicum Speech (1)	3	0	6	(AS331 OR Concurrent).
AS372	Clinical Practicum Speech (2)	4	0	8	(AS371 OR Concurrent).



Course Number	Course Title	Credit Hours	Hrs Distribution		Prerequisite/Concurrent
			Theoretic	Lab	
AS381	Clinical Practicum Audiology (1)	3	0	6	(AS351 OR Concurrent).
AS382	Clinical Practicum Audiology (2)	4	0	8	(AS381 OR Concurrent).
AS431	Cleft Palate	1	1	0	AS221.
AS433	Cleft Palate Practical	1	0	2	(AS431 OR Concurrent).
AS435	Voice Disorders	1	1	0	AS221.
AS437	Voice Disorders Practical	1	0	2	Concurrent with AS435.
AS441	Aural Rehabilitation	2	2	0	AS331 AND AS342.
AS442	Neurogenic Language Disorders	2	2	0	AS102 AND P.T226.
AS443	Aural Rehabilitation Practical	1	0	2	Concurrent with AS441.
AS444	Neurogenic Language Disorders Practical	1	0	2	Concurrent with AS442.
AS452	Paediatric Audiology	1	1	0	AS351.
AS454	Paediatric Audiology Practical	1	0	2	Concurrent with AS452.
AS456	Vestibular Assessment	1	1	0	AS352.
AS458	Vestibular Assessment Practical	1	0	1	Concurrent with AS456.
AS461	Cochlear Implant	1	1	0	AS362.
AS462	Hearing Disorders	2	0	0	LM202 AND AS225.
AS463	Cochlear Implant (Practical)	1	0	2	Concurrent with AS461.
AS471	Clinical Practicum Speech (3)	3	0	6	(AS372 OR Concurrent).
AS472	Clinical Practicum Speech (4)	3	0	6	(AS471 OR Concurrent).
AS481	Clinical Practicum Audiology (3)	4	0	8	(AS382 OR Concurrent).
AS482	Clinical Practicum Audiology (4)	3	0	6	(AS481 OR Concurrent).
LG103AS	General Linguistics	3	3	0	
LG281A S	Phonetics	3	3	0	LG103AS.
LG302A S	Language Acquisition And Development	3	3	0	LG103AS.



Guidance Plan

First Year

First Semester

Course Number & Title	Credit Hours	Prerequisite/Concurrent
ARB102 Communication Skills In Arabic	3	
AS102 Introduction To Audiology & Speech Pathology	2	
HSS103BT General Biology	3	
HSS103CHEM General Chemistry	3	
NUR252 Growth And Development	3	
University Elective Requisite	3	
Total Hours	17	

Second Semester

Course Number & Title	Credit Hours	Prerequisite/Concurrent
AS122 Medical Speech Pathology	1	
LG101 Communication Skills In English	3	Passing LG099 OR Passing ENG099. OR Passing the Placement Test with a mark of 50 or above.
MED230A Human Physiology	3	HSS103BT.
MED230B Human Physiology (Lab)	1	(MED230A OR Concurrent).
MS100 Military Sciences	3	
P.T218 Gross Anatomy & Histology	2	HSS103BT.
P.T220 Gross Anatomy And Histology (Lab)	1	Concurrent with P.T218.
University Elective Requisite	3	
Total Hours	17	



Second Year

First Semester

Course Number & Title	Credit Hours	Prerequisite/Concurrent
AS201 Special Education And Learning Disabilities	2	
AS202 Clinical Psychology	1	
AS221 Anatomy And Physiology Of Speech	2	(P.T218 OR Concurrent).
AS223 Anatomy And Physiology Of Speech Practical	1	Concurrent with AS221.
AS225 Anatomy And Physiology Of Hearing	1	(P.T218 OR Concurrent).
HSS110 Leader And Social Responsibility	3	
LG103AS General Linguistics	3	
LM202 Pathology	3	P.T218 AND MED230A AND MED230B.
Total Hours	16	

Second Semester

Course Number & Title	Credit Hours	Prerequisite/Concurrent
AS232 Neurogenic Speech Disorders	1	AS122 AND AS221.
AS234 Neurogenic Speech Disorders Practical	1	Concurrent with AS232.
AS236 Acoustics	1	LG103AS.
HSS311PH Biostatistics	2	
LG281A S Phonetics	3	LG103AS.
LG302A S Language Acquisition And Development	3	LG103AS.
P.T226 Neuroscience (1)	2	P.T218 AND MED230A.
P.T228 Neuroscience (1) (Lab)	1	(P.T226 OR Concurrent).
University Elective Requisite	3	
Total Hours	17	



Third Year

First Semester

Course Number & Title	Credit Hours	Prerequisite/Concurrent
AS331 Articulation And Phonological Disorders	2	LG281A S.
AS332 Swallowing Disorders	1	AS221.
AS333 Articulation And Phonological Disorders Practical	1	Concurrent with AS331.
AS334 Swallowing Disorders Practical	1	Concurrent with AS332.
AS351 Audiological Evaluation (1)	1	AS225.
AS353 Audiological Evaluation 1 Practical	1	Concurrent with AS351.
AS371 Clinical Practicum Speech (1)	3	(AS331 OR Concurrent).
AS381 Clinical Practicum Audiology (1)	3	(AS351 OR Concurrent).
HSS119 Entrepreneurship And Innovation	2	
HSS391 PARA Ethics In Applied Medical Careers	1	
Total Hours	16	

Second Semester

Course Number & Title	Credit Hours	Prerequisite/Concurrent
AS336 Fluency Disorders	1	AS102.
AS338 Fluency Disorders Practical	1	Concurrent with AS336.
AS342 Language Disorders	1	LG302A S.
AS344 Language Disorders Practical	1	Concurrent with AS342.
AS352 Audiological Evaluation (2)	1	AS351.
AS354 Audiological Evaluation 2 Practical	1	Concurrent with AS352.
AS362 Hearing Aids	1	AS351.
AS364 Hearing Aids (Practical)	1	Concurrent with AS362.
AS372 Clinical Practicum Speech (2)	4	(AS371 OR Concurrent).
AS382 Clinical Practicum Audiology (2)	4	(AS381 OR Concurrent).
LG103 Life Skills	2	
Total Hours	18	



Forth Year

First Semester

Course Number & Title	Credit Hours	Prerequisite/Concurrent
AS431 Cleft Palate	1	AS221.
AS433 Cleft Palate Practical	1	(AS431 OR Concurrent).
AS435 Voice Disorders	1	AS221.
AS437 Voice Disorders Practical	1	Concurrent with AS435.
AS441 Aural Rehabilitation	2	AS331 AND AS342.
AS443 Aural Rehabilitation Practical	1	Concurrent with AS441.
AS461 Cochlear Implant	1	AS362.
AS463 Cochlear Implant (Practical)	1	Concurrent with AS461.
AS471 Clinical Practicum Speech (3)	3	(AS372 OR Concurrent).
AS481 Clinical Practicum Audiology (3)	4	(AS382 OR Concurrent).
HSS491LM Scientific Research Methods	1	HSS311PH.
Total Hours	17	

Second Semester

Course Number & Title	Credit Hours	Prerequisite/Concurrent
AS442 Neurogenic Language Disorders	2	AS102 AND P.T226.
AS444 Neurogenic Language Disorders Practical	1	Concurrent with AS442.
AS452 Paediatric Audiology	1	AS351.
AS454 Paediatric Audiology Practical	1	Concurrent with AS452.
AS456 Vestibular Assessment	1	AS352.
AS458 Vestibular Assessment Practical	1	Concurrent with AS456.
AS462 Hearing Disorders	2	LM202 AND AS225.
AS472 Clinical Practicum Speech (4)	3	(AS471 OR Concurrent).
AS482 Clinical Practicum Audiology (4)	3	(AS481 OR Concurrent).
HSS499LM Graduation Project	3	
Total Hours	18	



Description of Courses

AS102: Introduction To Audiology & Speech Pathology (2 CHs)

Prerequisite: None

This course provides an introduction to the communication disorders. By the end of this course, the student should be able to identify the development of normal communication in humans; be able to recognize and categorize any disorders that might interrupt normal communication both in production or reception; and to analyze the possible effects of these disorders on the overall day to day life of the affected person and the society in general.

AS122: Medical Speech Pathology (1 CHs)

Prerequisite: None

This course focuses on understanding the general disabling conditions of infants and young children. The course provides education to the students of the clinical picture of developmental disabilities. The course also provides major emphasis of childhood disorders and the most common acquired disorders of adulthood. Presentation of the diagnostic and therapeutic guidelines of the developmental and acquired health disabilities will be acknowledged.

AS201: Special Education And Learning Disabilities (2 CHs)

Prerequisite: None

The concept of special education and the foundations on which it is based, the individual educational program, team work, family participation, and supporting services such as physical and occupational therapy, special physical education, and social service. The course also addresses the concepts associated with human behaviors and learning difficulties in terms of their causes, types, and methods. Diagnosis and treatment. As well as distinguishing between developmental and acquired learning difficulties, presenting the symptoms of each type, and providing family and school advice and guidance to raise the level of school and university achievement, and the positive economic aspect for the individual and society.

AS202: Clinical Psychology (1 CHs)

Prerequisite: None

This course provides clear descriptions of psychopathological disorders in order to enable clinicians to diagnose, communicate about, study and treat people with various mental disorders.

AS221: Anatomy And Physiology Of Speech (2 CHs)

Prerequisite: (P.T218 OR Concurrent).

This course provides an introduction to the physiology of normal hearing mechanism. This course also provides an explanation to the pathophysiological changes accompany different kinds of hearing loss.

AS223: Anatomy And Physiology Of Speech Practical (1 CHs)

Prerequisite: Concurrent with AS221.

Demonstration of 3D models and a video files on the vital organs of speech production including the respiratory, phonatory and articulatory systems in addition to neuroanatomy pertaining to speech production. Drawing speech organs and structures from different views and orientations. Demonstration of recent material and technology that explains coordination between speech subsystems during speech production.

AS225: Anatomy And Physiology Of Hearing (1 CHs)

Prerequisite: (P.T218 OR Concurrent).



AS232: Neurogenic Speech Disorders (1 CHs)

Prerequisite: AS122 AND AS221.

The course provides a description of developmental and acquired motor speech disorders in children and adults including disorders of motor speech planning and programming, motor execution, and motor feedback. The course also includes a description of the assessment and diagnosis procedures as well as treatment protocols for motor speech disorders.

AS234: Neurogenic Speech Disorders Practical (1 CHs)

Prerequisite: Concurrent with AS232.

This course provides the acoustic properties of sounds, speech, and the dynamics of speech sound production. The basic principles of acoustics related to speech and hearing including: sound generation, transmission, and measurement; frequency, intensity and duration, and waveform composition.

AS236: Acoustics (1 CHs)

Prerequisite: LG103AS.

This course provides the acoustic properties of sounds, speech, and the dynamics of speech sound production. The basic principles of acoustics related to speech and hearing including: sound generation, transmission, and measurement; frequency, intensity and duration, and waveform composition.

AS331: Articulation And Phonological Disorders (2 CHs)

Prerequisite: LG281A S.

This course provides an introduction to articulation and phonological disorders and their significance. Reviewing the articulators and place and manner of articulation. Studying phonetic development and the subject of intelligibility. Studying phonologic processes and development. Studying types and the etiology of articulatory and phonological disorders. Assessment and diagnosis of articulatory and phonological development and treatment of their disorders.

AS332: Swallowing Disorders (1 CHs)

Prerequisite: AS221.

This course includes basic information of the underlying causes of swallowing disorders; the course also provides the classical as well as the up-to-date treatment approaches of dysphagia.

AS333: Articulation And Phonological Disorders Practical (1 CHs)

Prerequisite: Concurrent with AS331.

Practical application of using different assessment tools such as standardized and non-standardized tests to diagnose articulation and phonological disorders. Training students on preparing and writing treatment plans and periodic reports with a focus on how to write short- and long-term goals to match the needs of each case. Displaying videotapes and patient cases on the processes of assessment, diagnosis and treatment articulation and phonological disorders .

AS334: Swallowing Disorders Practical (1 CHs)

Prerequisite: Concurrent with AS332.

Practical training on using various tools for the assessment and diagnosis of swallowing disorders including as clinical an instrumental (radiological and endoscopic) methods. The course also includes training students on different rehabilitative and compensatory approaches for the management of swallowing disorders. The course also includes videotapes and case studies on the evaluation, diagnosis and treatment of swallowing difficulties, with a presentation of the normal swallowing process and case studies of various disease cases



AS336: Fluency Disorders (1 CHs)

Prerequisite: AS102.

The theoretical foundations of non-fluent behavior have to be reviewed. Topics taught are: symptomatology, incidence variables, characteristics of the person who stutter, the stuttering response, theories of stuttering, and normal dysfluencies. Differential diagnosis, principles of therapeutic techniques, and management procedures for children and adults will be studied. Various treatment approaches are to be examined and compared.

AS338: Fluency Disorders Practical (1 CHs)

Prerequisite: Concurrent with AS336.

A practical training on the use of different assessment tools such as standardized and non-standardized tests to evaluate and diagnose fluency disorders. Students practice providing counselling to parents and teachers who deal with cases of stuttering. Training students on preparing and writing treatment plans and periodic reports with a focus short- and long-term goals to match the needs of each case. The course also includes the presentation of videotapes and cases on the processes of assessment, diagnosis and treatment of fluency disorders.

AS342: Language Disorders (1 CHs)

Prerequisite: LG302A S.

This course provides basic principles, methods and procedures for assessment and intervention of child language disorders. Qualitative and quantitative approaches to the evaluation of linguistic proficiency will be explored. Topics will also include: establishment of rapport, data collection (using interview, behavioral observation, informal assessment, and standardized testing) and differential diagnosis. Psychometric considerations in the selection, administration, and interpretation of test data will be discussed.

AS344: Language Disorders Practical (1 CHs)

Prerequisite: Concurrent with AS342.

Practical training on the use of different assessment tools such as standardized and non-standardized tests to diagnose language disorders. Training students on preparing and writing treatment plans and periodic reports with a focus on writing short- and long-term goals to match the needs of each case. Displaying videotapes and cases on the processes of assessment, diagnosis and treatment of language disorders.

AS351: Audiological Evaluation (1) (1 CHs)

Prerequisite: AS225.

This course provides basic principles of the techniques and interpretation of conventional hearing investigations: pure tone audiometry, masking, tympanometry, speech audiometry, acoustic reflexes, reflex decay, and acoustic reflex decay. Interpretation and reporting the results of hearing assessment for medical legal aspects. Supervised clinical training on the use of different audiometric equipment, performance and interpretation of conventional Audiological investigations of adults and children over five years old.

AS352: Audiological Evaluation (2) (1 CHs)

Prerequisite: AS351.

This course provides basic principles of adult speech audiometry as well as the whole test battery for adults to diagnose the site of lesion in sensorineural hearing loss. Special attention is paid to the different subjective tests as well as the objective evoked potential tests. Moreover, special tests to diagnose non-organic hearing loss are discussed.



AS353: Audiological Evaluation 1 Practical (1 CHs)

Prerequisite: Concurrent with AS351.

Display of videotapes and examples of normal and abnormal results of hearing tests including pure tone testing. Demonstration of the process of conducting conventional hearing investigations: pure tone audiometry, masking, tympanometry, speech audiometry, acoustic reflexes, reflex decay, and acoustic reflex decay. Practice using the tuning fork in the process of detecting hearing loss and determining its type and degree.

AS354: Audiological Evaluation 2 Practical (1 CHs)

Prerequisite: Concurrent with AS352.

Presentation of videotapes and examples of normal and abnormal results of audiological examinations including auditory evoked potential, hearing level for speech discrimination, and the use of clinical quantification. Presentation of the speech audiometry procedure to determine the type of central hearing loss. Also, a presentation of the cochlear mapping process to diagnose patients with Meniere's disease. Training on hearing devices used in the examination process on normal people.

AS362: Hearing Aids (1 CHs)

Prerequisite: AS351.

This course provides an introduction to basic description of hearing aids components. It also describes the different kinds and styles of hearing aids and provides explanation of indication of hearing aids. This course introduces to the different hearing aid's fitting strategies including real-ear measurements

AS364: Hearing Aids (Practical) (1 CHs)

Prerequisite: Concurrent with AS362.

The course provides the students with video tapes demonstrating the different types of hearing aids, hearing aids dispensing and fitting process

AS371: Clinical Practicum Speech (1) (3 CHs)

Prerequisite: (AS331 OR Concurrent).

The course provides the students with observation of clinical activities in conjunction with discussion of clinical issues. The clinical process and nature of the client-clinician relationship are stressed. Students are acquainted with basic concepts of clinical practice including models of diagnosis, fundamentals of clinical data collection and measurement, treatment planning, professional writing.

AS372: Clinical Practicum Speech (2) (4 CHs)

Prerequisite: (AS371 OR Concurrent).

The course provides the students with supervised clinical practice; further observations of clinical activities and investigation of the clinical process with an emphasis on diagnostics, assessment tools, and methodologies in speech pathology. Advanced concepts of clinical practice, including principles of human behavior change, clinical decision making, generalization, transfer and maintenance, models of service delivery, ethical practice, advanced professional writing.

AS381: Clinical Practicum Audiology (1) (3 CHs)

Prerequisite: (AS351 OR Concurrent).

The course provides the students with observation of clinical activities in conjunction with discussion of clinical issues. The clinical process and nature of the client-clinician relationship are stressed. Students are acquainted with basic concepts of clinical practice, including models of diagnosis, fundamentals of clinical data collection and measurement, treatment planning, professional writing.



AS382: Clinical Practicum Audiology (2) (4 CHs)

Prerequisite: (AS381 OR Concurrent).

The course provides the students with supervised clinical practicum that enable them to conduct primary Audiological testing and deal with patients at hospitals. Writing diagnostic reports.

AS431: Cleft Palate (1 CHs)

Prerequisite: AS221.

This course provides students with information on the different types of and causes of clefts. It also sheds light on the medical aspects of repairing cleft lip and palate and velopharyngeal insufficiency and other related problems and the techniques and strategy used in speech assessment and intervention. The course highlights different types of resonance disorders resulting from velopharyngeal insufficiency and other disorders with emphasis on clinical and instrumental tools of assessment.

AS433: Cleft Palate Practical (1 CHs)

Prerequisite: (AS431 OR Concurrent).

Practical training on clinical and instrumental assessment techniques used to diagnose cases of resonance disorders resulting from inadequate velopharyngeal closure including nasometry, pressure flow technique, endoscopy, radiology and other low tech tools.

AS435: Voice Disorders (1 CHs)

Prerequisite: AS221.

This course focuses on the acoustic, physiologic, and psychological factors contributing to normal and abnormal phonation and resonance of speech. The course presents fundamental knowledge of cleft palate and other cranio-facial anomalies. Assessment and intervention strategies for organic and functional voice disorders will be explored.

AS437: Voice Disorders Practical (1 CHs)

Prerequisite: Concurrent with AS435.

Practical training with using various assessment tools, devices and techniques used to diagnose cases of voice disorders and the techniques used in measuring and analyzing the human voice. Training students on the methods used in treating cases of human voice disorders based on their underlying causes, whether neurological, psychological, functional or resulting from surgical intervention. Videos and case studies on the evaluation, diagnosis and treatment of voice disorders

AS441: Aural Rehabilitation (2 CHs)

Prerequisite: AS331 AND AS342.

This course introduces principals Aural Rehabilitation, Auditory Verbal Therapy, Hearing Impairment, Hearing Impaired Children (characteristics, assessment & therapy approaches) and adult with hearing loss. Students will learn about the impact of hearing impairment on the development of speech, language, social, and functional aspect of an individual. Students will be introduced to different communication modalities and approaches of intervention for hearing impaired individuals. Particular Emphasis will be dedicated to Auditory Verbal Therapy to develop spoken language in hearing impaired children.

AS442: Neurogenic Language Disorders (2 CHs)

Prerequisite: AS102 AND P.T226.

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AS443: Aural Rehabilitation Practical (1 CHs)

Prerequisite: Concurrent with AS441.

The course aims to provide the student with videotapes that show the different types of aural rehabilitation with a focus on auditory verbal therapy.

AS444: Neurogenic Language Disorders Practical (1 CHs)

Prerequisite: Concurrent with AS442.

This course includes basic information of neural basis of language and their interaction of multiple anatomical region, the neuropathology of aphasia, classification of aphasia, the severity of aphasia (mild, moderate, severe), the assessment methods and differential diagnosis of aphasia various types. The right hemisphere impairment and language disorders.

AS452: Paediatric Audiology (1 CHs)

Prerequisite: AS351.

This course aims to enabling the students to understand and be able to assess the hearing mechanism and value the importance of evaluating hearing abilities in this population. This course provides the latest information in the diagnosis and remediation of hearing loss in pediatric population. This course especially focuses on early identification of hearing loss.

AS454: Paediatric Audiology Practical (1 CHs)

Prerequisite: Concurrent with AS452.

Displaying videos and case studies on conducting hearing tests and screenings in children and newborns using otoacoustic emission devices and auditory evoked potentials, and methods of performing these hearing examination. Methods of diagnosis and referral to the medical team, training students to provide family guidance and counselling to prevent hearing loss by presenting genetic factors and their effect on the occurrence of hearing loss.

AS456: Vestibular Assessment (1 CHs)

Prerequisite: AS352.

This course introduces vestibular anatomy and physiology, different vestibular testing strategies, the effect of different peripheral and central pathologies on the overall balance function and an overview of different rehabilitative treatment protocols. —

AS458: Vestibular Assessment Practical (1 CHs)

Prerequisite: Concurrent with AS456.

Practical training for students on the use of vestibular assessment devices, in addition to displaying videotapes and various pathological cases of balance disorders

AS461: Cochlear Implant (1 CHs)

Prerequisite: AS362.

This course introduces the importance of rehabilitation of hearing impaired children and adults with hearing aids. Verification techniques of the hearing aids are also included. Special attention is paid to appropriateness of hearing aids and the age of rehabilitation. Moreover, the different fitting methods of hearing aids will be presented. The digital hearing aid technology and its advantages will be discussed. Furthermore, the course includes assistive listening devices and the aspects of cochlear implants, their importance, the patients in need for them, and the determinants of success.



AS462: Hearing Disorders (2 CHs)

Prerequisite: LM202 AND AS225.

Diseases that affect the function of the auditory system. The role of the audiologist and speech-language pathologist in the pre-evaluation of the otolaryngologist's procedures and the subsequent audiological treatment of his medical intervention. Training students to know the medical, pharmacological and surgical interventions for most diseases of the auditory system to help understand the roles among the medical team

AS463: Cochlear Implant (Practical) (1 CHs)

Prerequisite: Concurrent with AS461.

The course provides the students with video tapes demonstrating the different types of cochlear implants and surgical intervention of the implantation procedure and the role of the audiologist in the rehabilitation team

AS471: Clinical Practicum Speech (3) (3 CHs)

Prerequisite: (AS372 OR Concurrent).

Students taking this course will have the opportunity to be placed in a facility outside the University. Differential diagnosis of speech disorders. Methods involved in complete diagnostic speech pathology and liaison with medical personnel. The course provides advanced clinical procedures for assessment of speech disorders in adult and pediatric populations; experience in test administration through supervised laboratory & clinical sessions in educational or clinical settings. Students will have flexibility in scheduling and be supervised onsite by the coordinator of the program.

AS472: Clinical Practicum Speech (4) (3 CHs)

Prerequisite: (AS471 OR Concurrent).

Dealing and treating advanced and specialized cases. Dealing with different voice, speech and language disorders and habilitating them independently. Reporting a case of each of these disorders and writing reports for final evaluation.

AS481: Clinical Practicum Audiology (3) (4 CHs)

Prerequisite: (AS382 OR Concurrent).

The course provides advanced hearing testing that enable the students to deal with different cases and write professional reports. The course provides major focus on vestibular testing and ABR testing.

AS482: Clinical Practicum Audiology (4) (3 CHs)

Prerequisite: (AS481 OR Concurrent).

The students will work with advanced hearing testing, deal with challenging cases, and write professional reports. The course also provides major focus on vestibular and ABR testing.