



**Jordan University of Science and Technology**  
**Faculty of Applied Medical Sciences**  
**Audiology & Speech Pathology Department**

AS452 Paediatric Audiology

Second Semester 2020-2021

**Course Catalog**

2 Credit Hours. This course consists of the knowledge about the normal and pathologic development of the hearing system, different pediatric audiologic tests, early identification of the congenital hearing loss in newborns with detection of the acquired forms during the childhood, and the communication and audiological aspects related to rehabilitation of hearing-impaired children

**Text Book**

<b>Title</b>	Comprehensive Handbook of Pediatric Audiology,
<b>Author(s)</b>	Tharpe, A.M. and Seewald, R.
<b>Edition</b>	1st Edition
<b>Short Name</b>	Ref# 1
<b>Other Information</b>	

**Instructor**

<b>Name</b>	<b>Dr. Safa Alqudah</b>
<b>Office Location</b>	-
<b>Office Hours</b>	Sun : 12:30 - 14:30 Mon : 12:30 - 13:30 Tue : 12:30 - 14:30 Wed : 12:30 - 13:30
<b>Email</b>	salqudah@just.edu.jo

**Class Schedule & Room**

Section 1:

Lecture Time: Sun, Tue : 09:30 - 10:30

Room: منصة الكترونية

**Prerequisites**

Line Number	Course Name	Prerequisite Type
1143512	AS351 Audiological Evaluation 1	Prerequisite / Study

**Tentative List of Topics Covered**

Weeks	Topic	References
Week 1	Syllabus/ Introduction to Course	
Week 2	Embryology & Development of the Auditory	Ch 19 From Ref# 1
Week 3	Special Populations of Pediatric Patients	Ch 6, 24 From Ref# 1
Week 4	Early Identification of Hearing Loss and Screening for Newborns	Ch 1, 2 From Ref# 1
Weeks 5, 6	Audiologic Assessment: Auditory Evoked Potentials	Ch 21 From Ref# 1
Week 7	Audiologic Assessment: Otoacoustic Emission	Ch 20 From Ref# 1
Weeks 8, 9	Audiologic Assessment: Immittance Audiometry Visual Reinforcement Audiometry	Ch 22 From Ref# 1
Weeks 10, 11	Play Audiometry and Speech Audiometry	Ch 21,23 From Ref# 1
Week 12	Audiologic Management: Introduction to Pediatric Amplification and Early Intervention in Home	Ch 1, 2, 25, 26, 29 From Ref# 1
Week 13	Syndromes Related to Hearing Loss (Part 1)	Ch 6 From Ref# 1
Week 14	Syndromes Related to Hearing Loss (Part 2)	Ch 6 From Ref# 1
Week 15	Syndromes Related to Hearing Loss (Part 3)	Ch 6 From Ref# 1
Week 16	Final Review for the Course	

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Demonstrate the normal embryology and development of the auditory system.	5%	Midterm Exam
Identify the abnormal development of hearing and the related genetic and environmental effects.	7%	Midterm Exam

Compare normal hearing and hearing-impaired infants' speech perception skills.	3%	
Know the epidemiology of childhood deafness and hearing impairment	2%	Midterm Exam
Define the most common genetic syndromes associated with hearing loss.	20%	Midterm Exam
List the main risk factors for neonatal and late onset hearing loss.	4%	Midterm Exam
Describe the universal hearing screening for neonatal using AOA and AABR.	7%	
State the effectiveness and limitations of conducting the current universal hearing screening.	2%	
Conduct behavioral observation audiometry (BOA) and address the problems associated with it.	1%	
Learn how to apply visual reinforcement audiometry in clinical practice.	7%	
Assess speech perception skills in children using special test materials.	5%	
Discuss the differences between the immittance test procedures for adult and pediatric populations.	6%	
Explain the recommended procedures to test the infants objectively through OAE and ABR.	15%	
Learn the differences in hearing amplification systems to select the best option for each hearing-impaired child.	4%	
Explain the advantages of early intervention to manage pediatric hearing loss.	4%	Midterm Exam
Understand the importance of engaging the families, who have children with hearing loss, as a partner in the language development process.	4%	
Give the necessary guidelines and counseling to families of infants and children with hearing loss	4%	

Evaluation	
Assessment Tool	Weight
Midterm Exam	50%
Final Exam	50%

Policy	
Exams	The course will be broken into 2 exams. Exams will include: short essay, multiple-choice, matching, and true/ false questions make-up exam will be granted for excused absence only The student has one week from the time any test is returned to appeal the grade. Extenuating circumstances (PRIOR approval should be obtained or direct contact made with the instructor within 24 hours)
Cheating	The instructor will follow JUST's rules and regulation

Attendance	Attendance will not count for points in this class. The student is responsible for any information discussed in the lecture. It is imperative to attend most of the classes! The allowed number of absences is 6 days
Expected work load	Students are expected to work hard to ensure a high-quality learning
Feedback	Concerns or complaints should be expressed in the first instance to the course instructor. Questions about the material covered in the lecture, notes on the content of the course, and its teaching and assessment methods can be also sent by e-mail to the following address: <a href="mailto:salqudah@just.edu.jo">salqudah@just.edu.jo</a>

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