

AUDIOLOGY

(1) GENERAL

SCHOOL	Health Sciences		
ACADEMIC UNIT	Speech and Language Therapy		
LEVEL OF STUDIES	Undergraduate Programme (Level 6)		
COURSE CODE	slt – 31	SEMESTER	3
COURSE TITLE	Audiology		
INDEPENDENT TEACHING ACTIVITIES <i>if credits are awarded for separate components of the course, e.g. lectures, laboratory exercises, etc. If the credits are awarded for the whole of the course, give the weekly teaching hours and the total credits</i>	WEEKLY TEACHING HOURS	CREDITS	
Lectures	2	5	
Laboratory Exercises	1		
COURSE TYPE <i>general background, special background, specialised general knowledge, skills development</i>	Special background		
PREREQUISITE COURSES:			
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek and English		
IS THE COURSE OFFERED TO ERASMUS STUDENTS	Yes		
COURSE WEBSITE (URL)	http://moodle.teiep.gr		

(2) LEARNING OUTCOMES

Learning outcomes

The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.

Consult Appendix A

- Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area
- Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B
- Guidelines for writing Learning Outcomes

The students at the end of the semester will have a good understanding of the auditory and vestibular pathway, the hearing mechanism, and the main diseases related with it, as well as all modern diagnostic detection methods of hearing impairment. The course aims to give students the necessary knowledge about the hearing mechanism and its relation with the speech development, disorders of the auditory system and its modern methods of early diagnosis and treatment in neonates, infants and adults.

Upon successful completion of the course, the student will be able to:

- Recognize, describe and understand the anatomy and physiology of the typical auditory and vestibular pathway. (Levels 1 & 2: Knowledge/Remembering & Understanding)
- Discriminate the basic etiology and symptoms of the hearing mechanism Levels 1 & 2: Knowledge/Remembering & Understanding)
- Interpret the basic diagnostic audiological tests (pure tone audiometry, tympanometry, otoacoustic emissions, ABR) and interpret the results in clinical practice in the spectrum of their concern with regards to the speech and language development. (Levels 1 to 6: Knowledge/Remembering, Understanding, Applying, Analyzing, Creating & Evaluating)

General Competences

Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the course aim?

Search for, analysis and synthesis of data and information, with the use of the necessary technology

Adapting to new situations

Decision-making

Working independently

Team work

Working in an international environment

Working in an interdisciplinary environment

Production of new research ideas

Project planning and management

Respect for difference and multiculturalism

Respect for the natural environment

Showing social, professional and ethical

responsibility and sensitivity to gender issues

Criticism and self-criticism

Production of free, creative and inductive

thinking.....

Others.....

- *Search for, analysis and synthesis of data and information, with the use of the necessary technology*
- *Team work*
- *Working in an interdisciplinary environment*
- *Production of new research ideas*
- *Project planning and management*

(3) SYLLABUS

1. Central and Peripheral auditory pathways.
2. Pure tone audiometry.
3. Tympanometry, Acoustic Reflexes
4. Tuning Forks- Audiometry in children (Behavioral audiometry, Play audiometry, VRA)
5. Otoacoustic emissions (OAE)
6. Auditory Brainstem Responses (ABR)
7. Peripheral and Central Vestibular System
8. Vertigo
9. Vestibular testing (Vemps, ENG etc)
10. Audiological Diseases Part 1
11. Audiological diseases, Part 2
12. Hearing aids
13. Cochlear implants

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY <i>Face-to-face, Distance learning, etc.</i>	Face to face
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY <i>Use of</i>	Use of audio-visual methods (e.g. PowerPoint presentations)

<i>ICT in teaching, laboratory education, communication with students</i>	Support the learning process through the e-class platform.													
<p align="center">TEACHING METHODS</p> <p><i>The manner and methods of teaching are described in detail.</i></p> <p><i>Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.</i></p> <p><i>The student's study hours for each learning activity are given as well as the hours of non-directed study according to the principles of the ECTS</i></p>	<table border="1"> <thead> <tr> <th data-bbox="783 159 1058 197">Activity</th> <th data-bbox="1066 159 1326 197">Semester workload</th> </tr> </thead> <tbody> <tr> <td data-bbox="783 197 1058 235">Lectures</td> <td data-bbox="1066 197 1326 235">26</td> </tr> <tr> <td data-bbox="783 235 1058 273">Laboratory practice</td> <td data-bbox="1066 235 1326 273">13</td> </tr> <tr> <td data-bbox="783 273 1058 311">Essay writing</td> <td data-bbox="1066 273 1326 311">23</td> </tr> <tr> <td data-bbox="783 311 1058 349">Personal study</td> <td data-bbox="1066 311 1326 349">66</td> </tr> <tr> <td data-bbox="783 349 1058 387">Course total</td> <td data-bbox="1066 349 1326 387">125</td> </tr> </tbody> </table>		Activity	Semester workload	Lectures	26	Laboratory practice	13	Essay writing	23	Personal study	66	Course total	125
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<p align="center">STUDENT PERFORMANCE EVALUATION</p> <p><i>Description of the evaluation procedure</i></p> <p><i>Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions, open-ended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical examination of patient, art interpretation, other</i></p> <p><i>Specifically-defined evaluation criteria are given, and if and where they are accessible to students.</i></p>	<p>I. Written or oral final exam (75-100%) consisting of:</p> <ul style="list-style-type: none"> - multiple choice questions - short answer questions <p>II. Optional teamwork clinical research essay (25%).</p> <p>The final exams will be offered in Greek & English</p>													

(5) ATTACHED BIBLIOGRAPHY

<p>- <i>Suggested bibliography:</i></p> <ul style="list-style-type: none"> • Ωτορινολαρυγγολογία, Στοιχεία Ανατομίας Φυσιολογίας και Παθολογίας Ναυσικά Ζιάβρα, Αντώνιος Σκεύας, University Studio Press • Κλινική Ακοολογία James W. Hall, III, Εκδόσεις Πασχαλίδης, Broken Hill. • Current Ωτορινολαρυγγολογία Χειρουργική Κεφαλής και Τραχήλου Anil K. Lalwani, Εκδόσεις Πασχαλίδης, Broken Hill. • Εγχειρίδιο Λογοθεραπείας, Froma P.Roth, Collen K. Worthington, Εκδόσεις Πασχαλίδης, Broken Hill. • Εισαγωγή στις Διαταραχές Επικοινωνίας, Norma B. Anderson, George H. Shames, Εκδόσεις Πασχαλίδης, Broken Hill. • Handbook of clinical audiology, Jack Katz <p>- <i>Related academic journals:</i></p> <ul style="list-style-type: none"> • European Archives of Oto-Rhino-Laryngology https://www.springer.com/medicine/otorhinolaryngology/journal/405 • Otolaryngology Head and Neck Surgery https://journals.sagepub.com/home/oto • Journal of Laryngology and Otology https://www.jlo.co.uk • Audiology and Neurootology https://www.karger.com/Journal/Home/224213

- **International Journal of Pediatric Otorhinolaryngology**
<https://www.journals.elsevier.com/international-journal-of-pediatric-otorhinolaryngology>