**SEMINAR: NEUROLINGUISTICS – PSYCHOLINGUISTICS**

## (1) GENERAL

| | | | |
|---|---|---|---|
| **SCHOOL** | HEALTH SCIENCES | | |
| **ACADEMIC UNIT** | SPEECH LANGUAGE THERAPY | | |
| **LEVEL OF STUDIES** | Undergraduate Programme (Level 6) | | |
| **COURSE CODE** | **slt -85** | **SEMESTER** | 8 |
| **COURSE TITLE** | SEMINAR: NEUROLINGUISTICS – PSYCHOLINGUISTICS | | |
| **INDEPENDENT TEACHING ACTIVITIES** *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* | **WEEKLY TEACHING HOURS** | | **CREDITS** |
| Lectures | 2 | | 4 |
| **COURSE TYPE** *general background, special background, specialised general knowledge, skills development* | General Background | | |
| **PREREQUISITE COURSES:** | | | |
| **LANGUAGE OF INSTRUCTION and EXAMINATIONS:** | Greek | | |
| **IS THE COURSE OFFERED TO ERASMUS STUDENTS** | No | | |
| **COURSE WEBSITE (URL)** | https://moodle.ioa.teiep.gr/course/index.php?categoryid=11 | | |

## (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*

This course describes the mechanisms of the human brain that are responsible for understanding, producing and acquiring language. It makes reference to an interdisciplinary field that draws on its methodology and theory from various fields of science such as neuroscience, linguistics, cognitive science, neurobiology, neuropsychology, communication disorders, and computer science. Also, the course examines the linguistic phenomenon in the light of the neurobiological factors that allow speakers to use and understand their language.

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

- acquire a comprehensive knowledge for neuro-linguistics and psycholinguistics and understand how they work as applied and theoretical science. (Levels 1 & 2: Knowledge/Remembering & Understanding)

- Understand the main interdisciplinary components of neuro-linguistics and psycholinguistics, to formulate an analytical way of thinking that will help students to interpret the linguistic phenomena from the point of view of these two sciences. (Levels 2-6: Understanding, Applying, Analyzing, Creating & Evaluating)
- has a supervisory understanding of the connection of specific areas of the brain with specific functions of the linguistic phenomenon (Levels 1, 2, 3 & 5: Knowledge Knowledge/Remembering, Understanding, Applying & Creating)
- distinguish the basic principles and currents that led to the formulation of neurolinguistics and psycholinguistic models in relation to speech and communication. (Levels 3-6: Applying, Analysing, 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…*

| | |
|---|---|
| • *Adapting to new situations*<br>• *Decision-making*<br>• *Working independently*<br>• *Team work* | • *Production of new research ideas Respect for difference and multiculturalism*<br>• *Production of free, creative and inductive thinking* |

**(3) SYLLABUS**

1. Introduction to Neurolinguistics.
2. Cognitive Neuroscience and Language: Challenges and Future Approaches.
3. Functional Neuroimaging in Neurolinguistics.
4. Structured and Interactive Representation of Linguistic Function.
5. Cognitive Architecture of the Language. Descriptive Models
6. Speech Production: The Speaker Action Plan.
7. Understanding Oral and Written Language: The Audience and Reader Action Plan.
8. Nervous and Functional Architecture of Writing and Oral Lexical Representation and the Importance of Words.
9. The Neurocognitive Background of Syntactic Processing.
10. The Mapping of the Language in the Brain.
11. Introduction to the Psycholinguistics Science.
12. The Biological Background of Human Language Behavior.

13. Psycholinguistic Approaches in the Language of Deaf (Sign Language).

**(4) TEACHING and LEARNING METHODS - EVALUATION**

<table>
<tr><td>DELIVERY<br>Face-to-face, Distance learning, etc.</td><td>Face-to-face: In class</td></tr>
<tr><td>USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY<br>Use of ICT in teaching, laboratory education, communication with students</td><td>Use of audio-visual methods (e.g. PowerPoint presentations)<br>Support the learning process through the e-class platform.</td></tr>
<tr><td>TEACHING METHODS<br>The manner and methods of teaching are described in detail.<br>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.<br><br>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</td><td><table><tr><th>Activity</th><th>Semester workload</th></tr><tr><td>Lectures</td><td>26</td></tr><tr><td>Essay Writing</td><td>22</td></tr><tr><td>Personal Study</td><td>52</td></tr><tr><td>Course total</td><td>100</td></tr></table></td></tr>
<tr><td>STUDENT PERFORMANCE EVALUATION<br>Description of the evaluation procedure<br><br>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<br><br>Specifically-defined evaluation criteria are given, and if and where they are accessible to students.</td><td>I. Written final exam (80%):<br>- Multiple choice test<br>- Short answer questions<br>- Problem Solving<br>II. Written Essay-Individual (20%)<br>(with Pass, Merit and Distinction criterion accessible by students)<br>The final exams will be offered in Greek</td></tr>
</table>

**(5) ATTACHED BIBLIOGRAPHY**

*- Suggested bibliography:*


- Ahlsén, E. (2006). *Introduction to neurolinguistics.* John Benjamins Publishing.
- Caplan, D. (2010). *Neurolinguistics and linguistic aphasiology: An introduction.* Cambridge University Press.
- Fabbro, F. (2013). *The neurolinguistics of bilingualism: An introduction.* Psychology Press.
- Ingram, J. C. (2007). *Neurolinguistics: An introduction to spoken language processing and its disorders.* Cambridge University Press.
- Menn, L., & Dronkers, N. F. (2016). Psycholinguistics: Introduction and applications. Plural Publishing.


*- Related academic journals:*

- **Journal of Neurolinguistics, Elsevier**

https://www.journals.elsevier.com/journal-of-neurolinguistics

- **Journal of Psycholinguistic Research**
  https://link.springer.com/journal/10936
- **Applied Psycholinguistics**
  https://www.cambridge.org/core/journals/applied-psycholinguistics
- **Annual Review of Applied Linguistics**
  https://www.cambridge.org/core/journals/annual-review-of-applied-linguistics
- **Journal of Linguistics**
  https://www.cambridge.org/core/journals/journal-of-linguistics