

## COURSE OUTLINE OCCUPATIONAL THERAPY IN CHILDREN AND ADOLESCENTS WITH NEUROMUSCULAR DISORDERS

### 1. GENERAL

<b>SCHOOL</b>	SCIENCE OF PHYSICAL EDUCATION, SPORTS AND OCCUPATIONAL THERAPY		
<b>DEPARTMENT/MSc</b>	OCCUPATIONAL THERAPY		
<b>LEVEL OF STUDY</b>	MSc - LEVEL 6		
<b>COURSE CODE</b>		<b>SEMESTER OF STUDIES</b>	4o
<b>COURSE TITLE</b>	OCCUPATIONAL THERAPY IN CHILDREN AND ADOLESCENTS WITH NEUROMUSCULAR DISORDERS		
<b>INDEPENDENT TEACHING ACTIVITIES</b>		<b>TEACHING WEEKS</b>	<b>CREDITS</b>
<i>in case the credits are awarded to distinct parts of the course, e.g. Lectures, Laboratory Exercises, etc. If the credits are awarded uniformly for the entire course, indicate the weekly teaching hours and the total credits</i>			
THEORY		3	6
EXERCISE OF ACTION		2	
<i>Add rows if needed. The organization of teaching and the teaching methods used are described in detail in 4.</i>			
<b>COURSE TYPE</b>	SCIENTIFIC AREA		
<i>Background, General Knowledge, Scientific Area, Skills Development</i>			
<b>PREREQUISITE COURSES:</b>	NO		
<b>LANGUAGE OF INSTRUCTION AND EXAMINATIONS:</b>	GREEK		
<b>THE COURSE IS OFFERED TO ERASMUS STUDENTS</b>	NO		
<b>ONLINE COURSE PAGE (URL)</b>	-		

### 2. LEARNING OUTCOMES

<p><b>Learning Outcomes</b></p> <p><i>The learning outcomes of the course are described, the specific knowledge, skills and abilities of an appropriate level that students will acquire after the successful completion of the course.</i></p> <p><i>Consult Appendix A</i></p> <ul style="list-style-type: none"> <li>● <i>Description of the Level of Learning Outcomes for each cycle of study according to the European Higher Education Area Qualifications Framework</i></li> <li>● <i>Descriptive Indicators of Levels 6, 7 &amp; 8 of the European Qualifications Framework for Lifelong Learning</i></li> </ul> <p><i>and Annex B</i></p> <ul style="list-style-type: none"> <li>● <i>Summary Guide to Writing Learning Outcomes</i></li> </ul> <p>Upon successful completion of the course, participants will be able to:</p> <ul style="list-style-type: none"> <li>● <i>become familiar with the milestones of typical and non-typical sensory-motor development (due to neuromuscular disorders) of children</i></li> <li>● <i>know the basic characteristics of neuromuscular disorders</i></li> </ul>
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- *know the stages of design and implementation of occupational therapy programs in children and adolescents with neuromuscular disorders*
- *know the use of methods used in neuromuscular disorders*
- *understand the value of the child's holistic approach*

### **General Competencies**

*Taking into account the general competencies that the graduate must have acquired (as listed in the Diploma Supplement and listed below), which / which of them is the course aimed at?.*

*Search, analyze and synthesize data and information, using the necessary technologies*

*Project planning and management*

*Respect for diversity and multiculturalism*

*Adapting to new situations*

*Respect for the natural environment*

*Decision-making*

*Demonstrate social, professional and ethical responsibility and gender sensitivity*

*Autonomous work*

*Criticism and self-criticism*

*Teamwork*

*Promoting free, creative and inductive thinking*

*Working in an international environment*

*Working in a multidisciplinary environment*

*Generating new research ideas*

- *Search, analyze and synthesize data and information, using the necessary technologies*
- *Respect for diversity and multiculturalism*
- *Criticism and self-criticism*
- *Autonomous work*
- *Project planning and management*

### **3. COURSE CONTENT**

1. *Principles of occupational therapy practice in children and adolescents*
2. *Typical sensory-motor development, immaturity, pathology*
3. *Neuromuscular disorders in children and adolescents I (cerebral palsy, Down syndrome, muscular dystrophies...)*
4. *Neuromuscular disorders in children and adolescents II (myopathies, brachial plexus injury, spinal cord injury, craniocerebral injuries)*
5. *Neuromuscular disorders through models and reference frameworks in occupational therapy*
6. *Occupational Therapy Evaluation of Children and Adolescents with Neuromuscular Disorders*
7. *Goal setting - setting functional and therapeutic goals;*
8. *Methods, techniques and means of occupational therapy approach*
9. *Neurodevelopmental therapy (NDT) in children with neuromuscular disorders*
10. *Sensory Integration in Children with Neuromuscular Disorders*
11. *Design of intervention programs in children and adolescents with neuromuscular disorders I*
12. *Design of intervention programs in children and adolescents with neuromuscular disorders II*

### 13. The importance of the multidisciplinary team and the role of the family in it

#### 4. TEACHING AND LEARNING METHODS - EVALUATION

<p style="text-align: center;"><b>DELIVERY METHOD</b></p> <p style="text-align: center;"><i>Face-to-face, Distance learning, etc.</i></p>	FACE TO FACE																		
<p style="text-align: center;"><b>USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES</b></p> <p style="text-align: center;"><i>Use of ICT in Teaching, Laboratory Training, Communication with Students</i></p>	<p>Use of ICT in Teaching and Communication with Students</p> <ul style="list-style-type: none"> <li>• Digital slides</li> <li>• video</li> <li>• MsTeams/ e-class, webmail</li> </ul>																		
<p style="text-align: center;"><b>TEACHING ORGANIZATION</b></p> <p><i>The way and methods of teaching are described in detail.</i></p> <p><i>Lectures, Seminars, Laboratory Exercise, Field Exercise, Study &amp; Analysis of Literature, Tutorial, Practice (Placement), Clinical Exercise, Art Workshop, Interactive Teaching, Educational Visits, Project Preparation, Writing a Paper / Paper, Artistic Creation, etc.</i></p> <p><i>The student's study hours for each learning activity as well as the hours of non-guided study are indicated so that the total workload at semester level corresponds to ECTS standards</i></p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #f2f2f2;"> <th style="text-align: center;">Activity</th> <th style="text-align: center;">Semester Workload</th> </tr> </thead> <tbody> <tr> <td>Lectures</td> <td style="text-align: center;">39</td> </tr> <tr> <td>Work</td> <td style="text-align: center;">60</td> </tr> <tr> <td>Literature study and analysis</td> <td style="text-align: center;">78</td> </tr> <tr> <td>Examination</td> <td style="text-align: center;">3</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td><b>Total Course</b></td> <td style="text-align: center;"><b>180</b></td> </tr> </tbody> </table>	Activity	Semester Workload	Lectures	39	Work	60	Literature study and analysis	78	Examination	3							<b>Total Course</b>	<b>180</b>
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<p style="text-align: center;"><b>STUDENT EVALUATION</b></p> <p><i>Description of the evaluation process</i></p> <p><i>Assessment Language, Assessment Methods, Formative or Conclusive, Multiple Choice Test, Short Answer Questions, Essay Development Questions, Problem Solving, Written Paper, Report/Report, Oral Examination, Public Presentation, Laboratory Work, Clinical Examination of a Patient, Artistic Interpretation, Other/Other</i></p> <p><i>Explicitly defined evaluation criteria and whether and where they are accessible by students are mentioned.</i></p>	<p>Work at home (compulsory) 35%</p> <p>Written exam 65%</p>																		

#### 5. RECOMMENDED BIBLIOGRAPHY

1. O'Brien, J.C. & Kuhaneck, H. (2023). *Case-Smith's Occupational Therapy in Children and Adolescents*. Athens: I. Konstantaras.
2. Levitt, S. (2014). *Treatment of Cerebral Palsy and Motor Delay (5th edition)*. Athens: Parisianou Single Member Publishing Publishing Publishing Company.
3. Söderback I. (2015). *International Handbook of Occupational Therapy Interventions*. Springer Cham Heidelberg New York Dordrecht London

4. Alexander M. A., Mathews D. J. (2010). *Pediatric rehabilitation: principles and practice*. 4<sup>th</sup> edition, Demos Medical Publishing, LLC.
5. Case-Smith, J. (2005). *Occupational Therapy for Children*, 5th Ed. St. Louis, MO: Mosby, 960 pages
6. Roger, Silvia and Ziviani, Jenny (2006). *Occupational Therapy With Children: Understanding Children's Occupations and Enabling Participation*, Blackwell Publishing, MA, 299 pages.
7. Sugden, D., & Wade, M. (2013). *Typical and atypical motor development*, Mac Keith Press