COURSE OUTLINE NEUROLOGICAL DISEASES: DISORDERS & ASSESSMENT

1. GENERAL

SCHOOL	PHYSICAL EDUCATION, SPORT SCIENCE AND OCCUPATIONAL THERAPY		
DEPARTMENT	PHYSICAL EDUCATION AND SPORT SCIENCE		
LEVEL OF STUDIES	ISCED level 6 – Bachelor's or equivalent level		
COURSE CODE	C661	**SEMESTER**	5th
COURSE TITLE	NEUROLOGICAL DISEASES: DISORDERS & ASSESSMENT		

TEACHING ACTIVITIES *If the ECTS Credits are distributed in distinct parts of the course e.g. lectures, labs etc. If the ECTS Credits are awarded to the whole course, then please indicate the teaching hours per week and the corresponding ECTS Credits.*	**TEACHING HOURS PER WEEK**	**ECTS CREDITS**
	3	6

COURSE TYPE *Background, General Knowledge, Scientific Area, Skill Development*	Scientific Area,
PREREQUISITES:	Functional anatomy - Kinesiology
TEACHING & EXAMINATION LANGUAGE:	Hellenic (Greek) English for Erasmus+ students
COURSE OFFERED TO ERASMUS STUDENTS:	YES
COURSE URL:	

2. LEARNING OUTCOMES

Learning Outcomes
Please describe the learning outcomes of the course: Knowledge, skills and abilities acquired after the successful completion of the course.

Specifically, after the successful completion of the course students will be able to:
- *know the causes and symptoms of the most common neurological diseases*
- *understand the mechanisms of motor problems in people with neurological diseases*
- *assess the severity of motor and functional problems of people with neurological diseases*
- *analyze the effect of exercise interventions and retraining of movement on the function of the motor mechanism of people with neurological diseases*
- *delimit the goals of exercise programs to address the main problems of people with neurological diseases*
- *The aim of the course is to familiarize students with the pathophysiology and symptoms of the most common neurological diseases, as well as the methods of evaluating movement-related problems in patients with neurological diseases.*

General Skills
Name the desirable general skills upon successful completion of the module

Search, analysis and synthesis of data and information,	*Project design and management*
ICT Use	*Equity and Inclusion*
Adaptation to new situations	*Respect for the natural environment*

Decision making	*Sustainability*
Autonomous work	*Demonstration of social, professional and moral responsibility*
Teamwork	*and sensitivity to gender issues*
Working in an international environment	*Critical thinking*
Working in an interdisciplinary environment	*Promoting free, creative and inductive reasoning*
Production of new research ideas	

The general skills that are supported involve:
- *Search, analysis and synthesis of data and information, using appropriate ICT*
- *Decision making*
- *Autonomous work*
- *Teamwork*
- *Working in an interdisciplinary environment*
- *Production of new research ideas*
- *Practice of criticism and self-criticism*
- *Promoting free, creative and inductive reasoning*

3. COURSE CONTENT

1. *Introduction - Structure and function of the nervous system*
2. *Sensory-motor subsystems of the nervous system*
3. *Mechanism of production and control of posture and movement*
4. *Stroke*
5. *Basal ganglia disorders (Parkinson's & Huntignton's disease)*
6. *Multiple sclerosis*
7. *Cerebral palsy*
8. *Dementia*
9. *Mobility assessment scales and tests for people with neurological disorders*
10. *Clinical assessment of posture and gait*
11. *Laboratory analysis of posture and gait*
12. *Exercise and neuroplasticity*
13. *Modern approach to the rehabilitation of movement disorders*

4. LEARNING & TEACHING METHODS - EVALUATION

TEACHING METHOD *Face to face, Distance learning, etc.*	Face to face Theoretical lectures Laboratory courses Distance learning
USE OF INFORMATION & COMMUNICATIONS TECHNOLOGY (ICT) *Use of ICT in Teaching, in Laboratory Education, in Communication with students*	Use of ICT in teaching and communication with students: digital slides videos MsTeams/ e-class, webmail

TEACHING ORGANIZATION *The ways and methods of teaching are described in detail.* *Lectures, Seminars, Laboratory Exercise, Field Exercise, Bibliographic research & analysis, Tutoring, Internship (Placement), Clinical Exercise, Art Workshop, Interactive learning,*	Activity	Workload/semester
	Lectures	39
	Lab exercises	30

Study visits, Study / creation, project, creation, project. Etc. The supervised and unsupervised workload per activity is indicated here, so that total workload per semester complies to ECTS standards.	Study and analysis of the literature	78
	Examinations	3
	Total Course	**150**

STUDENT EVALUATION *Description of the evaluation process* *Assessment Language, Assessment Methods, Formative or Concluding, Multiple Choice Test, Short Answer Questions, Essay Development Questions, Problem Solving, Written Assignment, Essay / Report, Oral Exam,* *Presentation in audience, Laboratory Report,* *Clinical examination of a patient, Artistic interpretation, Other/Others* *Please indicate all relevant information about the course assessment and how students are informed*	Interim evaluations (40%) Written exams including: multiple choice tests, short answer questions and development questions designed to solve problems (60%) The assessment languages are Greek and English for Erasmus students

5. SUGGESTED BIBLIOGRAPHY

1. *NICHOLS_LARSEN D. ET AL (2017). NEUROLOGICAL REHABILITATION. ATHENS: KONSTANTARAS, MEDICAL PUBLICATIONS*
2. *CARR J. & SHEPHERD R. (2017). NEUROLOGICAL REHABILITATION (2ND EDITION). ATHENS: PARISIANOU, ANONYMOUS PUBLISHING IMPORT TRADING COMPANY OF SCIENTIFIC BOOKS*

ANNEX OF THE COURSE OUTLINE

Alternative ways of examining a course in emergency situations

Teacher (full name):	Nikolaos Aggelousis
Contact details:	nagelous@phyed.duth.gr
Supervisors:	Yes
Evaluation methods:	Written or oral examination with distance learning methods, via eClass. Identification and monitoring of examinees through Microsoft Teams
Implementation Instructions:	The examination in the course will be done in randomly created groups of users (examinees). The compositions of the user groups will be announced in time. The total examination duration of each group will be 1 hour. In the first twenty minutes of each examination period, the examinees will be identified through the MS Teams app. For this purpose, there must be a camera, microphone and headphones connected to their terminal device (PC or smartphone). The relevant link will be sent via eClass, exclusively

	to the institutional accounts of those who have registered for the course and have accepted the terms of distance examination. For identification, students will display their student ID on camera when requested.
	The main examination will be carried out through the "Exercises" application of eClass. In particular, at the beginning of the second twenty minutes of each examination period, an exercise entitled "Examination - Group X (where X = 1 to n)" will be activated in the eClass, which will include 20 questions. The time limit for answering the 20 questions will be 30 minutes. During this period, all questions should be answered and finalized. Each of the questions will be graded with 0.5 points.
	Students should log in to the eClass platform through their institutional account.
	Also during the exam the camera and microphone of the examinees have to be continuously activated and the MS Teams application should be open.