COURSE OUTLINE FUNCTIONAL ANATOMY – KINESIOLOGY

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	C009 SEMESTER 3 RD and 4 TH		and 4 TH		
COURSE TITLE	FUNCTIONAL	. ANATOMY –	KINESIOLOGY		
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
			2		3
COURSE TYPE Background, General Knowledge, Scientific Area, Skill Development	General knowledge				
PREREQUISITES:	None				
TEACHING & EXAMINATION	Hellenic (Greek)				
LANGUAGE:	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.

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

- identify and describe the mechanical function of the joints and muscles of the
- understand the limitations imposed by the mechanical properties of the musculoskeletal system in its operation
- understand the mechanisms of body movement production and loading on the musculoskeletal system
- analyze the effects of exercise and sport activities on the mechanical function of the musculoskeletal system

General Skills

Name the desirable general skills upon successful completion of the module

Project design and management Search, analysis and synthesis of data and information,

Equity and Inclusion Respect for the natural environment

Adaptation to new situations Decision making

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

- Search, analysis and synthesis of data and information, using appropriate ICT
- Decision making
- Autonomous work
- Teamwork

- Working in an international environment
- Working in an interdisciplinary environment
- Production of new research ideas
- Project design and management
- Respect for the natural environment
- Promoting free, creative and inductive reasoning

3. COURSE CONTENT

- 1. Introduction
- 2. Tissues, organs and systems of the body
- 3. Neuromechanics of movement
- 4. Mechanical properties of the myotendinous unit: part A
- 5. Mechanical properties of the myotendinous unit: part B
- 6. Mechanical properties of ligaments and bones
- 7. Forces and torques in the joints of the body
- 8. Arthrokinematics & osteokinematics
- 9. Kinesiology of the head & spine
- 10. Kinesiology of the upper limb

Assessment Language, Assessment Methods,

Formative or Concluding, Multiple Choice Test, Short Answer Questions, Essay Development

- 11. Kinesiology of the lower limb Part A
- 12. Kinesiology of the lower limb Part B
- 13. Evaluation of musculoskeletal function

4. LEARNING & TEACHING METHODS - EVALUATION

4. LEARNING & TEACHING MET	IOD3 - EVALUATION	
TEACHING METHOD	 Face to face 	
Face to face, Distance learning, etc.	lectures	
	 Laboratory course 	S
	Distance learning	
USE OF INFORMATION &	Use of ICT in teaching and	communication with
COMMUNICATIONS TECHNOLOGY	students:	
(ICT)	digital slides	
Use of ICT in Teaching, in Laboratory Education, in Communication with students	• videos	
		wohmail
	MsTeams/ e-class,	
TEACHING ORGANIZATION	Activity	Workload/semester
The ways and methods of teaching are described in detail.		26
	Lectures	26
Lectures, Seminars, Laboratory Exercise, Field Exercise, Bibliographic research & analysis,		
Lectures, Seminars, Laboratory Exercise, Field Exercise, Bibliographic research & analysis, Tutoring, Internship (Placement), Clinical	Lab exercises	26
Lectures, Seminars, Laboratory Exercise, Field Exercise, Bibliographic research & analysis, Tutoring, Internship (Placement), Clinical Exercise, Art Workshop, Interactive learning,		20
Lectures, Seminars, Laboratory Exercise, Field Exercise, Bibliographic research & analysis,	Lab exercises	
Lectures, Seminars, Laboratory Exercise, Field Exercise, Bibliographic research & analysis, Tutoring, Internship (Placement), Clinical Exercise, Art Workshop, Interactive learning, Study visits, Study / creation, project, creation, project. Etc.	Lab exercises Study and analysis of the	20
Lectures, Seminars, Laboratory Exercise, Field Exercise, Bibliographic research & analysis, Tutoring, Internship (Placement), Clinical Exercise, Art Workshop, Interactive learning, Study visits, Study / creation, project, creation, project. Etc. The supervised and unsupervised workload per activity is indicated here, so that total	Lab exercises Study and analysis of the literature Examinations	20
Lectures, Seminars, Laboratory Exercise, Field Exercise, Bibliographic research & analysis, Tutoring, Internship (Placement), Clinical Exercise, Art Workshop, Interactive learning, Study visits, Study / creation, project, creation, project. Etc. The supervised and unsupervised workload per	Lab exercises Study and analysis of the literature	20
Lectures, Seminars, Laboratory Exercise, Field Exercise, Bibliographic research & analysis, Tutoring, Internship (Placement), Clinical Exercise, Art Workshop, Interactive learning, 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	Lab exercises Study and analysis of the literature Examinations	20 26 3 75

Written exams including: multiple choice tests,

short answer questions and 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 questions designed to solve problems (60%)

The assessment languages are Greek and English for Erasmus students

5. SUGGESTED BIBLIOGRAPHY

- 1. NEUMANN, D. A. (2018) KINESIOLOGY OF THE MUSCULOSKELETAL SYSTEM. ATHENS: S. ATHANASOPOULOS & S.A. I.C.E.
- 2. HOUGLUM P. A. (2016) BRUNNSTROM'S CLINICAL KINESIOLOGY (6TH EDITION) ATHENS: PARISIANOU ANONYMOUS PUBLISHING IMPORTER 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

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