COURSE OUTLINE MOVEMENT ANALYSIS IN OCCUPATIONAL THERAPY I

1. GENERAL

SCHOOL	SCIENCE OF PHYSICAL EDUCATION, SPORTS AND OCCUPATIONAL THERAPY		
DEPARTMENT/MSc	OCCUPATIONAL THERAPY		
LEVEL OF STUDY	MSc - LEVEL 6		
COURSE CODE		**SEMESTER OF STUDIES**	3Rd
COURSE TITLE	MOVEMENT ANALYSIS IN OCCUPATIONAL THERAPY I		

INDEPENDENT TEACHING ACTIVITIES *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*	**TEACHING WEEKS**	**CREDITS**
Theory	3	6
Laboratory	2	
Add rows if needed. The organization of teaching and the teaching methods used are described in detail in 4.		

COURSE TYPE *Background, General Knowledge, Scientific Area, Skills Development*	Background
PREREQUISITE COURSES:	NO
LANGUAGE OF INSTRUCTION AND EXAMINATIONS:	GREEK
THE COURSE IS OFFERED TO ERASMUS STUDENTS	NO
ONLINE COURSE PAGE (URL)	-

2. LEARNING OUTCOMES

Learning Outcomes

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.

Consult Appendix A

- *Description of the Level of Learning Outcomes for each cycle of study according to the European Higher Education Area Qualifications Framework*
- *Descriptive Indicators of Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning*

and Annex B

- *Summary Guide to Writing Learning Outcomes*

The aim of the course is for students to understand the basic principles of kinesiology and their application in occupational therapy practice. More specifically, students will be introduced to the basic concepts of kinesiology and mechanics and to the mechanism of execution of the various movements of the body parts, with emphasis on functionality, balance and daily activities.

In particular, upon successful completion of the course, students will be able to:

- explain and apply the basic concepts of kinesiology and the mechanics of human movement
- understand the neuromuscular control of movements and its importance in rehabilitation and occupational therapy intervention
- recognize and describe the kinesiology of body members in healthy as well as clinical situations
- recognize and describe the kinesiology of walking and other daily activities

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*
Adapting to new situations	*Respect for diversity and multiculturalism*
Decision-making	*Respect for the natural environment*
Autonomous work	*Demonstrate social, professional and ethical responsibility and gender sensitivity*
Teamwork	*Criticism and self-criticism*
Working in an international environment	*Promoting free, creative and inductive thinking*
Working in a multidisciplinary environment	
Generating new research ideas	

The general competencies of the students who are supported are:

- Search, analyze and synthesize data and information, using the necessary technologies
- Decision-making
- Autonomous work
- Working in a multidisciplinary environment
- Generating new research ideas
- Criticism and self-criticism
- Promoting free, creative and inductive thinking

3. COURSE CONTENT

1. Introduction - Basic concepts in Kinesiology (Kinematics, Kinetics, Osteokinematics, Arthrokinematics)
2. Basic principles of engineering (force, torque, levers, Newton's laws, charges)
3. Neuromuscular control of movements
4. Kinesiology of the head and temporomandibular joint
5. Kinesiology of the spine
6. Upper limb kinesiology
7. Kinesiology of the lower limb – Part A
8. Kinesiology of the lower limb – Part B
9. Static and dynamic balance
10. Kinesiology of swallowing and breathing

11. Kinesiology of gait
12. Kinesiology of daily activities
13. Recapitulation

4. TEACHING AND LEARNING METHODS - EVALUATION

DELIVERY METHOD *Face-to-face, Distance learning, etc.*	– In-person training – Theoretical lectures – Laboratory Courses – Distance education
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES *Use of ICT in Teaching, Laboratory Training, Communication with Students*	Use of ICT in teaching, laboratory training and communication with students (digital slides, videos, digital anatomy applications, MsTeams/ e-class, webmail)
TEACHING ORGANIZATION *The way and methods of teaching are described in detail.* *Lectures, Seminars, Laboratory Exercise, Field Exercise, Study & Analysis of Literature, Tutorial, Practice (Placement), Clinical Exercise, Art Workshop, Interactive Teaching, Educational Visits, Project Preparation, Writing a Paper / Paper, Artistic Creation, etc.* *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*	
STUDENT EVALUATION *Description of the evaluation process* *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* *Explicitly defined evaluation criteria and whether and where they are accessible by students are mentioned.*	1. Individual Work (40%) 2. Written exam (60%) - multiple-choice tests - Short Answer Questions -Problem solving

Activity	***Semester Workload***
Lectures	39
Preparation of a study (project)	60
Literature study and analysis	79
Examination	2
Total Course	**180**

5. RECOMMENDED BIBLIOGRAPHY

1. Neumann, D.A. (2018). Kinesiology of the musculoskeletal system. Edited by: I. Tsepis. Athens: S. Athanasopoulos & SIA P.C.E.
2. Houglum P.A. Brunnstrom's Clinical Kinesiology (6th edition). Athens: Parisianou Publishing Société Anonyme Introductory Scientific Books
3. Lippert, L.S. (2023). Kinesiology. Athens: Konstantaras Publications E.E.