

of retractions. Coverings. Lifting of homotopy. Monodromy. Homomorphism of fundamental groups induced by covering. Semilocally simply connected spaces. Universal covering spaces. Introduction to singular homology. Survey of important results in Algebraic Topology: Invariance of dimension, Hairy Ball Theorem, Brouwer fixed point Theorem, Invariance of domain, Jordan-Brouwer Theorem.

4. TEACHING AND LEARNING METHODS - ASSESSMENT

TEACHING METHOD <i>Face-to-face, Distance learning, etc.</i>	Lectures (face to face)	
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES <i>Use of ICT in teaching, laboratory education, communication with students</i>	PowerPoint slides Support Learning through the eClass platform.	
TEACHING ORGANIZATION <i>The manner and methods of teaching are described in detail.</i> <i>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.</i> <i>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</i>	Activity	Semester workload
	Lectures	52
	Personal Study	95
	Final Examination	3
	Total number of hours for the Course (25 hours of work-load per ECTS credit)	150
STUDENT ASSESSEMENT <i>Description of the evaluation procedure</i> <i>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</i> <i>Specifically-defined evaluation criteria are given, and if and where they are accessible to students</i>	Assessment Language: Greek Assessment Language for Erasmus students: English Assessment methods: Final written examination Minimum passing grade: 5 Maximum passing grade: 10	

5. RECOMMENDED LITERATURE

(in Greek)

- Ζαφειρίδου Σοφία και Τζεργιάς Παύλος. *Αλγεβρική Τοπολογία* (e-book). Σύνδεσμος Ελληνικών Ακαδημαϊκών Βιβλιοθηκών. Αποθετήριο "Κάλλιπος", 2024. Κωδικός Βιβλίου στον Εύδοξο: 128261723
- Συκιώτης Μιχαήλ. *Ομάδες και Τοπολογία* (e-book). Σύνδεσμος Ελληνικών Ακαδημαϊκών Βιβλιοθηκών. Αποθετήριο "Κάλλιπος", 2023. Κωδικός Βιβλίου στον Εύδοξο: 122074378