

Study programme: MAS Geography			
Course title: Methods of paleoclimate reconstruction			
Teacher(s): dr Biljana Basarin, dr Mladen Jovanović			
Status: elective			
ECTS: 5			
Requirements: none			
Learning objectives Students will be introduced to the basic methods of paleoclimatic and paleoecological reconstructions in marine and terrestrial environments.			
Learning outcomes After successfully completing the course the students are expected to: Better understand paleoclimatic and paleoecological fluctuations especially during the Quaternary; Determine paleoecological and paleoclimatic changes based on results obtained by various measurements.			
Syllabus <i>Theoretical part:</i> Paleoclimate and paleoecological archives, dating methods, ice cores, deep sea sediments and terrestrial archives, macrofossils, palynological sequences, malacology, dendroclimatology. <i>Practical part:</i> Analysis of the results obtained by various measurements, different statistical and mathematical methods used to analyze the results.			
Literature Bradly, S.R. (2000): Paleoclimatology, Reconstructing Climates of the Quaternary. International Geophysics Series, Amsterdam Cronin, T.M.(2010): Paleoclimates: Understanding Climate Change Past and Presen. Colombia University Press, New York			
Weekly teaching load 4 (60)		Lectures 2	Exercises 2
Methods of Teaching Lectures, Illustration and Demonstration, Practical skills. Lectures are conducted using a computer presentations on the video projector, projection of films and slides. The exercises are performed practically, where students have to write and present one seminar paper durin the course.			
Grading method (maximu 100 points)			
Pre-examination assignments	points	Final examination	points
Activities during lectures	0-5	Written examination	
Activities during exercises	0-5	Oral examination	30-45
Colloquia	20-40	
Seminar paper	0-5		