Course Outline Model (Syllabus)					
Faculty:	Faculty of Geosciences				
Name of study	Materials and Metallurgy				
program:					
Department:	Materials and Metallurgy				
Level:	Master				
The code of subject:	e code of subject: 8				
Subject:	Mechanical Properties				
Subject Status:	Elective	(Compulsory or Elective)			
Semester:	III	(Winter / Summer)			
Total hours:	2+2	(According to approved programe)			
ECTS:	4 (According to approved programe)				
Schedule / Hall					
Academic year:					
Professor:	Prof.Asoc.Dr.Muharrem Zabeli				
Assistants:					
Contacts:		Assistant			
Email:	Muharrem.zabeli@umib.net				
Phone:	044383855				

BRIEF CONTEN T OF SUBJECT	Introduction, role and importance of mechanical properties of materials Tensile test Pressure test Bending test Fracture impact energy (work) test Material slip Material fatigue (fracture) Residual stresses Material strength Determination of technological properties of materials Reinforcement mechanisms of materials Elasticity of materials Plasticity of materials Dislocations		
AIMS	The aim of the course is to acquaint students with the main methods of mechanical properties of materials in order to determine their quality and to acquaint students with the relevant standards for the implementation of relevant methods for determining the mechanical properties		
EXPECT ED LEARNIN G OUTCOM ES	After completing this course (students) students will be able to: 1 to know and identify the relevant test methods for determining the mechanical properties of materials and details, 2-to determine the relevant standard of tests for determining the mechanical properties of materials and details, 3 to use appropriate methods for determining the mechanical properties of materials and details according to the relevant standard, 4 to ascertain the type and intensity of deformation depending on external loads, 5. To reason and discuss the relevant test results 6-to manage the necessary equipment according to the relevant standard		
PROCE	Weeks	Topic and Readings	
PROGR AM	Week - I	Introduction, role and importance of mechanical properties of materials	
	Week - II	Standards and technical norms in the field of material testing	

	Week - III	Tensile test		
	Week - IV     Evidence in print			
	Week - V	Fracture shock energy (work) test		
	Week - VI	Slipping of materials		
	Week - VII     The first evaluation			
	Week - VIIIFatigue of materialsWeek - IXFracture (destruction) mechanics			
	Week - X	Remaining strains		
	Week - XI	Hardness of materials		
	Week - XII	Methods for measuring and determining hardness		
	Week - XIII	Reinforcement mechanisms of materials		
	Week - XIV	Elasticity and plasticity of materials		
	Week - XV	Second evaluation		
LITER ATURE	<ul> <li>1.I.Vitez,Ispitivanje mehanickih svojtava metalnih materijala, Slavo. Brod , 2006.</li> <li>2.W.F. Hosford, "Mechanical Behavior of Materials?, Cambridge, 2005.</li> <li>3.Bajrush Bytyci, Rr Maksuti, Kontrolli i bashkësive të salduara, Prishtinë, 2009.</li> </ul>			
TEACH ING METH ODOL OGY	Lectures, exe	rcises, presentations, assignments and industry visits		

	1 ECTS credit	= 25 hours)			
Activity	Hours	Day/Week	Total		
Lectures	2	15	30		
Exercise sessions - theoretical	2	15	30		
Field exercises					
Practical work	2		2		
Consultation with the professor / assistant	-	-	-		
Colloquiums / seminars	2	2	4		
Independent tasks (work)	2	3	6		
Student self study time (in library or at home)	4	10	40		
Final exam preparation	4	2	8		
Time spent in assessment (tests, quizzes, final exams)	2	2	4		
Projects, presentations, etc.	1	1	1		
E li sul cu	Evaluation met	hods			
[according to the Statute and Regulation of UMIB Studies]					
Tests	30%				
Practical test during exercises	10%				
Seminary work (in word)	10%				
Interpretation and presentation of					
seminary work					
Tasks and essays during the semes	ter 10%				
Final exam	10%				

LOLDE	
ACADE	
MIC	
POLICI	Work with Computer
ES	Written works must be computer written. In the paper work it is obligatory to respect the criteria
	for both the visual and the content aspect of the required works. Along these paper work it is
	required to respect the spelling rules and APA style
	required to respect the spenning fulles and ALA style
	. Ethics in teaching
	• Etnics in teaching
	The different semester papers should be papers of each student. There will be no tolerance for
	copying, "borrowing" from the Internet or any other material. The same or similar works will have
	negative evaluations in the final evaluation of the student.
	• Deadlines
	The deadlines for submitting the paper work will be determined in agreement with the students.
	There will be no tolerance for delays in the submission of works. Failure to arrive at the time when
	the assignment is explained does not justify the student for not submitting the paper. The deadline
	will be given earlier. If you are going to travel abroad then you need to submit the paperwork in
	advance. The student has the right to request a consultation with the professor whenever he / she
	deems it reasonable and necessary to carry out his / her work
	deems it reasonable and necessary to earry out ms / ner work.
	• Pulse of conduct and academic policies:
	a active participation of students in leatures
	o active participation of students in fectures
	o participation in discussion, comments and free expression of opinion, opinion and academic
	position (with arguments)
	o Mandatory independent work and use of additional sources of information (various scientific
	websites, scientific journals, conference proceedings, etc.)
	o Respecting lecture schedules without compromising academic freedom (silent cell phones)
	o respecting the word, thoughts and ideas of colleagues
	o low tolerance for late arrivals and departures without any valid reason
	o preparation and equipping with relevant lectures, (obligation of the teacher).
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