TERRENIC AND CONTROL OF MATERIALS							
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Faculty:		Faculty of Geosciences					
Name of study	program:	Materials and Metallurgy					
Department:			Materials and Metallurgy				
Level:			Bachelor- Materials				
The code of sub	oject:	4					
Subject:			TESTING AND CONTROL OF MATERIALS				
Subject Status:			Compulsory/ Winter (Winter / Summer)				
Semester:			V	(According to approved programe)			
Total hours:			2+2	(According to approved programe)			
ECTS:			4	(According to approved programe)			
Schedule / Hall							
Academic year:			Afrim Osmani				
Professor:							
Assistants:			Lecturer:	Assistant			
	Email:	I	Afrim.osmani@umib.net				
	Telefon:		<u> </u>				
Course description:	This course introduces students to the destructive and nondestructive testing of materials through laboratory tests according to the certain standards, making accurate observation of phenomena and cover interpratation of results. The role and importance of material testing-basic concepts. Standardization, standards and technical normes in the field of materials testing. Tensile testing. Compression testing. Bending testing. Shear testing. Hardness testing with static load action. Hardness testing with dynamic load action. Impact fracture testing. Fatigue testing. Testing at high and low temperatures. Technological testing. Non destructive testing (defectoscopy). Testing and control of the welding joints						
Course objectives:		ram course aims to give to students: knowledge about the main methods of testing and control als in order to determine their quality and the relevant standards for testing and control of					
Learning outcomes:	-to select the-to prepare-to compare-to identify	By the completion of this course, the students will be expected: to select the appropriate testing and control for adequate cases, to prepare testing/control report including all required data according to the relevant standard, to compare the obtained results values with the specifications values of adequate standard, to identify the cause of defects occurrence of the materials, to identify type of material and production history, respectively preceding processing,					
	Week		Lectures which will be held				
	First week	k: The role and importance of the materials testing-basic concepts					
	Second week:		Standardization, standards and technical norms in the field of the materials testing				
	Third we	ek:	Tensile testing				
Designed	Fourth w	eek:					
study plan:	Fifth wee	ek:	Bending testing				
	Sixth wee	ek:	Torsion testing				
	Seventh v	week:					
				on of load			
	Ninth we		Hardness testing with dynamic load				
Designed	-to compar-to identify -to identify -to identify We First weel Second w Third we Fourth w Fifth wee Sixth wee Seventh w Eighth w	re the obtain the cause type of mark eek veek: eek: eek: eek: eek: week:	the obtained results values with the specifications values of adequate standard, he cause of defects occurrence of the materials, ype of material and production history, respectively preceding processing, Lectures which will be held The role and importance of the materials testing-basic concepts Standardization, standards and technical norms in the field of the materials testing Tensile testing Compression testing Bending testing Torsion testing Shear testing Hardness testing with static action of load				

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	Tenth week:			Impact toughness testing				
	Eleventh week:			Fatigue testing				
	Twelfth week: Thirteenth week:			Testing in the high and low ter	nperatures			
				Technological testing				
		Fourteenth week: Nondestructive testing Fifteenth week: Welded joint testing						
				Welded joint testing				
1t	Basic 2.W.F. Hosford,			nje mehanickih svojtava metalnih materijala, Slavo. Brod , 2006. "Mechanical Behavior of Materials?, Cambridge, 2005. i, Rr Maksuti, Kontrolli i bashkësive të salduara, Prishtinë, 2009.				
r at	1.M.Komlenovic, V.Djukic, Mehanicka ispitivanja metala, laboratorike i racuns Zenica, 2.H. Blamenauer, Werkstoffprüfung, 5.Auflage Deutscher Verlag für Grundstof Leipzig, 3. I Mertin Materials for Engineering, London							
Te	eaching m			re lectures, numerical and exercise				
			A	ctivity	Hours	Days/week	Total	
Co			Le	ectures	2	15	30	
ntr		Ex	Exercise theoretical/laboratory			15	30	
ib		Practice work						
uti		Contact with lecturer/consultations			2		2	
on	Field exercises				-	-	-	
on				ns, seminars	2	3	4	
stu		Homework 2 Individual time spent studying (at the library or home) 4					6	
de	Indiv	Individual time spent studying (at the library or home)					60	
nt				tion for the exam	5	2	10	
lo ad	Time spent in evaluation (tests, quiz, final exam)				2	3	6	
au	Projects, presentations, e				1	1	1	
	Total 14						149	
	Tests / Control Practical Sominar			olloquia		2x15 (%)		
				test during exercises		10 (%)		
Ex				nonor		10 (0/)		1

Evaluation methods

Tests / Colloquia	2x15 (%)
Practical test during exercises	10 (%)
Seminar paper	10 (%)
Homework during the semester	10 (%)
Final exam 40 (%)	40 (%)

Academic policies and rules of conduct:

Regular attendance is required of students in lectures and exercises.
Rules of conduct as quieting learning, access to the hall of learning time, turn off cel phones, etc. are also mandatory.