Basic data of the subject					
Faculty:	Faculty of En	gineering an	nd Informatic	S	
Title of the subject:	Engineering	Materials I			
Level:	Bachelor				
Course Status:	Core				
Year of studies:	I				
Number of hours per week:	3				
Value of Credits - ECTS:	5				
Time / location:					
Course lecturer:	Fatmir Cerki	ni			
Contact details:	Fatmir.cerkir	ni@ushaf.ne	t		
Course Description	This course engineering m and how they	will introduc naterials such are applied ir	e students t as metals, th design and m	o the basics of eir characteristics anufacturing.	
Objectives of the course:	The purpose of this course is to provide students with				
Exported learning	information of starting from their use. It w used in the inc	about the n the character vill also expla dustry. ful completion	naterials used istics of mater in how to cho	in engineering, ials, processing to ose the materials	
outcomes:	 able to: recognize the properties of engineering materials distinguish between metal materials and evaluate them. make the choice of materials depending on the type of construction and place of use give assessments of their properties and characteristics 				
Contribution to the student load (which must correspond with learning outcomes)					
Activity		Hour	Day/Week	In total	
Lectures with lab tutorials		3	15	45	
Internship					
Contacts with teacher / consultations		1	7	7	
Field exercises					
Midterm, seminars and projects.		2	2	4	
Homework		1	5	5	
Self-learning time student (at the library or at home)		3	15	45	
Final preparation for the exam		2	8	16	
Time spent on evaluation (tests. guiz and		2	1	2	

final exam)

Projects and presentations.

SYLLABUS

Total				124
Teaching methodology:	The course lasts 15 weeks with 3 hours of lectures and/or weekly individual and group exercises. The exercises will be held in the form of individual and group work in which concrete examples will be discussed. Active participation is extremely important, so students are encouraged to regularly attend lectures and exercises and contribute to the discussions that take place in the lectures. Lectures, Exercises individual work discussions and group work			
Assessment methods:	The student co shape of the assesson 1. Form 1: Ass 2. Form 2: Evo final. Form 1:	an be evaluat nent given ber sessment with aluation by ex	ed in one of tw low: colloquia and am	ro ways project
	In the first for colloquiums a four activities 1. Colloquium 2. Colloquium 3. Class activit 4. Project (209 Additional cla If the student reaches the m	m of assessm nd seminar w that are carri 1 (35%), indiv 2 (35%), indiv ty (10%), indiv ty (10%	ent "Assessme ork", the stude ied out during s vidual assessm vidual evaluati vidual assessm or group asses ty above ts, then he will	nt with ent is assessed in the lectures: ent on ent sment.
	100 points. Students who assessment, a final exam. Only if the stu according to f received highe	pass the exar rre released fr dent is not sa form 1, then h er rating.	n according to om the obligat tisfied with the e can take the	form 1 of the tion to take the grade achieved final exam to
	In the second exam", the stu after the com organized in t University sen achieve a max rest of the 209 group work in	form of evalu udent will und pletion of the he exam deac ate. Through kimum of 80% % points must the Project, c	ation, "Evaluat lergo the exam course lecture flines, determin the final exam of the total of be completed an activity carr	tion with the final which is held s, and is ned by the , the student can f 100 points. The by individual or ied out during the
	Iectures. In Colloquium assessment oj form, which n The evaluation proportionally semester, the The subjective that will be us	1, Colloquiun f students will nust be compl n form will co with the lect course mater e questions w sed to evaluat	n 2 and Final E be done throu eted individual ntain question ures conducted ial. ill be of the typ e the student's	xam, the Igh an assessment Ily by the student. s distributed d during the pe of written task s understanding

	and abilities to apply the knowledge gained in the analysis,		
	synthesis and evaluation of the problem, from the		
	responses prepared by the student to the question		
	presented.		
	• Activity in the class - means the student's engagement in		
	aealing with the issues discussed in the class, during the		
	lectures.		
	• Project (30%), individual or group assessment: It is an		
	a concrete project. It is carried out by only one student or in		
	a aroun of 2 or 3 students who are obliged to carry out the		
	activity, document it and present it to the subject professor		
	For the form of realism and documentation of the activity.		
	all members of the group will be evaluated with the same		
	point (10%), while the evaluation of the presentation skills		
	of the activity is individual and includes 10%.		
	Rating:		
	91-100 points - graded 10 (ten)		
	81-90 points - graded 9 (nine)		
	71-80 points - grade 8 (eight)		
	61-70 points - graded 7 (seven)		
51-60 points - grade 6 (Six)			
Literature			
Basic Literature:	1. Prof.ar. Hysni Osmani, Materialet Mekanike, Pjesa		
Additional Literature	e pure, FIM, Pristiline		
Additional Literature:	2. FIOJ.UI. HYSHI OSHIUHI, MULEHUEL MEKUHIKE, FJESU e dytë FIM Prishtinë		
Designed learning plan	c dyte, r http://initiale		
Wook	Lectures and exercises to be held		
Week.			
Week one:	Introduction; Metal technology		
Week two:	Metals and their properties		
Week three:	Evidence of destruction		
Week four:	Evidence without destruction		
Week five:	Basics of metalography		
Week six:	Equilibrium diagrams		
Week seven:	Equilibrium diagram for the carbon-iron bonding system		
Week eight:	Types of iron-carbon bonds		
Week nine:	Classification and use of iron-carbon bonds		
Week ten:	Colored metals and their alloys		
Week eleven:	Basics of thermal and chemical-thermal treatment of steel		
Week twelve:	Non-metallic materials		
Week thirteen:	Corrosion and corrosion protection		
Week fourteen:	Metal processing methods		
Week fifteen:	Summary		

Academic policies and rules of conduct

Regular attendance of lectures and exercises is necessary, as well as active participation with discussion and solution of tasks. Not impeding the progress required for learning using mobile phones turned off or in silent mode.