## **SYLLABUS**

The basic course information:				
Academic unit:	Faculty of Eng	gineering and Info	rmatics	
Title of the subject:	Materials Processing I			
Level:	Bachelor			
Course Status:	Obligatory			
Year of studies:	II			
Number of hours per week:	3			
Value of Credits - ECTS:	4			
Time / location:				
Course lecturer:	Mr.sc.Binaze Jashari			
Contact details:	binaze.jashari@ushaf.net			
Course description:	This course will introduce students to metalworking, machining machines, processing processes as well as economic processing methods.			
Objectives of the course:	The aim of this course is to provide students with sufficient knowledge of materials processing methods. Processing machines, instruments and tools, auxiliary equipment during processing such as measuring ones, etc.			
Learning outcomes:	After successful completion of the course, students will be able to:  • know what is the processing of metals with ash removal, the determination of the processing regime, which are the machines tools in which the processing with ashkle removal is done, etc.  • design the technological process for the processing of a mechanical detail, starting from the semi-finished product to the ready-made detail.  • cetermine the quality of surfaces worked with ash removal.  • know the processing operations, the bases of metal processing with cutting.  • apply economical method of processing between cutting and other processing while preparing for the work of machine elements.			
Contribution to the student load	1	•		
Activity	Hour	Day/week	In total	
Teaching (Lectures and exercises)	3	15	45	
Internship Contacts with teacher / consultations	1	-	-	
Contacts with teacher / consultations	1	5	5	

Field exercises		_	T _	_		
Midterm, seminars and proje	rts	2	5	10		
Homework	Ct3.		3	10		
Self-learning time student (at	the	2	15	30		
library or at home)	tile	_		30		
Final preparation for the exam		2	5	10		
Time spent on evaluation (tes		1	1	1		
and final exam)			_	_		
Projects and presentations.		1	2	2		
Total			103			
Teaching methodology:		Lectures and exercises combined with exercises.				
Assessment methods:		Seminar paper 20%				
		Final exam 80%				
Literature						
Basic Literature:		1. Zijadin	Krasniqi; Përpunir	mi me prerje I,		
		Univer	siteti i Kosovës, Prisl	htinë,1985		
Supplementary Literature:		1. Prof. Dr. Adnan Bodinaku , Teknologjia				
		mekanike 2 (pjesa e parë),				
		2. Punimi me heqje ashkle , shtëpia botuese e librit				
		universitar Tiranë, 2004.				
		3. Prof. Dr. Adnan Bodinaku , Teknologjia				
	mekanike 2 (pjesa e dytë),					
	4. Punimi me heqje ashkle , shtëpia botuese e librit					
		universitar Tiranë, 2005.				
		5. Zijadin Krasniqi; Përpunimi me prerje I,				
		Universiteti i Kosovës, Prishtinë,1985. 6. K.Krammer; Schneldkramik, Diamant und				
			rid zur Gusswerks	•		
			ger, 1977, 99,Nr.46.			
				i plastik i metaleve ,		
				kulteti i Inxhinjerisë,		
			, 1978.	<b>,</b> ,		
Designed learning plan:						
Week	Lecture	s and exercises	to be held			
Week one:	Introduction to the subject.					
Week two:	Scrap processing. Machines and types of processing					
Week three:	Scrap shapes. The mechanism of scrap formation.					
Week four:	Measurement of cutting forces.					
Week five:		ing temperatures. Measuring temperatures during				
	_	cutting processing.				
Java e six:	Tools for cooling and lubrication during cutting work					
	roots for cooming and rabification during catting work					

Week seven:	Materials for metal cutting tools	
Week eight:	Types of metal cutting tools during various processing	
	operations	
Week nine:	Durability and consumption of metal cutting tools. Quality of	
	the worked surface.	
Week ten:	Works on the turning machine. Basic movements of	
	machines, turning tools.	
Week eleven:	Practical work in the laboratory at USHAF	
Week twelve:	Numerical-CNC machines and its functions.	
Week thirteen:	Processing of a detail in CNC lathe measuring the roughness	
	quality of its surface.	
Week fourteen:	Processing with rectification in the rectifier machine	
Week fifteen:	Processing theory, calculation of processing time in metal	
	cutting machines and calculation of rate and other costs	
	Evaluation and presentation of seminar papers.	

## 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.