SYLLABUS

Basic data of the subject				
Faculty:	Faculty of Engineering and Informatics		:s	
Title of the subject:	CAD/CAM			
Level:	Bachelor			
Course Status:	Core			
Year of studies:	Ш			
Number of hours per week:	3			
Value of Credits - ECTS:	4			
Time / location:				
Course lecturer:	Muhamet Ymeri			
Contact details:	Muhamet.Ymeri@ushaf.net			
Course Description	With the development of production technology, the approach of CAD professionals to CAD applications in CAM software has evolved. This course will introduce students to CAD/CAM application and methodology.			
Objectives of the course:	Introduction of application possibilities of computers in production with an emphasis on programming CNC machine tools. Adoption of fundamentals of programming in systems CAD / CAM.			
Expected learning	Upon success	ful comple	tion of this subje	ct, student will be
outcomes:	able to:			
	·		constructing task	•
	_	•	ntly on computer t	
	•	manuJactu NC machir	• .	for processing a
	detail iii C	NC Machin	ies	
Contribution to the student I	and (which m	ust corro	spand with laar	ning outcomes)
Contribution to the student load (which make Activity		Hour	Day/Week	In total
Activity		noui	Day, week	iii totai
Lectures with lab tutorials		3	15	45
Internship				
Contacts with teacher / consultations		1	4	4
Field exercises				
Midterm, seminars and projects.		3	12	36
Homework				
Self-learning time student (at the library or at home)		1	15	15
Final preparation for the exam				
Time spent on evaluation (tests,	guiz and final			
exam)				
Projects and presentations.		1		1
Total				101
Teaching methodology:	Lecture, discussion, seminar, graphic works, computer work, CNC Machines.			

Assessment methods:	Course work 100%	
Literature		
Basic Literature:	1. Prof. dr. Shaban A. Buza, Sistemet CAD/CAM – ligjerata	
	të autorizuara,	
	Prishtinë 2009	
	2.Stark, J., Managing CAD/CAM Implementation,	
	Organisation and Integration, McGraw Hill,1998.	
Additional Literature:	1 Altintas, Y.: Manufacturing Automation, Cambridge	
	University Press, Cambridge 2000.	
	2. R. Cebalo: Obradni sustavi, Vedograf, Zagreb 2000.	

Designed learning plan		
Week:	Lectures and exercises to be held	
Week one:	Introduction to CAD and CAM.	
Week two:	CAD systems. Components of CAD systems. Production	
	supported by computers - CAM.	
Week three:	NC and CNC machines. The key elements of CNC machines,	
	measuring systems, drives, and computers command.	
	Characteristics of CNC computer command.	
Week four:	Programming of CNC machines. Programming by hand.	
	Programming systems CAD / CAM.	
Week five:	Practical work in the Laboratory.	
Week six:	CAD modelling taking into account the generation of NC	
	Programs.	
Week seven:	The integration of CAD and CAM systems.	
Week eight:	The interfaces of systems CAD / CAM.	
Week nine:	Application of systems CAD / CAM design and manufacture	
	of complex Parts.	
Week ten:	Tool path generation for faster processing of prototypes.	
Week eleven:	Manipulation with working parts and tools	
Week twelve:	Programmable Controllers	
Week thirteen:	Robots and manipulators.	
Week fourteen:	Practical work in the Laboratory	
Week fifteen:	Presentation of course work	

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.