Basic data of the subject			
Academic Unit:	Faculty of Management		
Subject title:	CNC Technologies		
Study level:	Bachelor		
Subject status:	Elective		
Years of study:	III		
Number of hours per week:	4		
Value of credits - ECTS:	5		
Lecturer of the subject:	Prof.As.Dr.Muhamet Ymeri		
Contact details:	muhamet.ym	eri@ushaf.net	
Subject description:	analyze the make their coproblems. To programming will know he on the ArtCowork from cothe Mach3 possibilities of AutoCad and will be conversed.	elementary dimentary of the properties of the pr	thine software. They the necessary data Aspire programs to tical work through from these, the therering vectors from will be taught, which that the software.
Purpose of subject:	The purpose of this subject is to provide the student with general knowledge on the methodology and concepts for designing CNC machines in order to achieve high precision production of modern products.  Through this subject, students will develop their skills in product preparation that will go through CNC machine operations, such as Drilling, Milling, Cutting etc.  After completion of this module, students will be able to:  Learn main design principles with CNC machines;  Improve the performance and reliability of the machine;  Design high-precision systems;  Program machines for production etc.  Lead the application of the works from the starting point to the end of the product.		
Expected learning outcomes:			
Contribu	ıtion to studen	t workload	
(which should corresp			tcomes)
Activity	Hours	Days/week	Total
Lectures	2	15	30
Theoretical / laboratory exercises	2	10	20
Practical work	5	3	15
Contacts to the Lecturer /	1	3	3
contacts to the Lecturer /	1	<u> </u>	<u> </u>

Consultations				
Field exercises	1	5	5	
Tests, student seminars	2	3	6	
Home work	1	15	15	
Time of self-study (in the library	2	10	20	
or home)		-	20	
Final preparation for the exam	3	2	6	
Time spent in assessment (tests,	2		2	
quiz, final exam)	2	1	2	
Projects, presentations, etc.	3	1	3	
Total	Lasturas Tas	marizante I ala rizante	Dragtical visits	
Teaching methodology:	Lectures, Teamwork, Lab. work, Practical visits (work)			
A	Final exam 50%			
Assessment methods:	Project 50%			
Literature				
Basic literature:		Stenberg Student (		
	Steve K.& Arthur G. Computer Numerical			
	Control CNC;			
	> Dr. Tamer M. CNC Hardwer and Tooling Basics			
Designed plan of teaching:	Busics			
Weeks	Lecture to be held			
First week:	History of Computer Numerical Control (CNC)			
Second week:	Benifits of CNC machines			
Third week:	Required space for developing work with CNC machines			
Fourth week:	Safety rules for CNC machines			
Fifth week:	Electrical requirements for normal work in CNC			
	machine			
Sixth week:	Total management of the process in the CNC machine			
Seventh week:	Machine tools, knowledge for their selection			
		e Components (Co		
Eighth week:		Cutting Parameter	<u>′</u>	
NI de la la		of machines based	,	
Ninth week:	tables in CNC	machine (X, Y ma	achines; Pendulum	
Tenth week:	CNC Machine	e Software (G-Cod	es, Post Processors)	
Eleventh week:	The basics of programming			
Twelfth week:	Cartesian system of coordinates			
Thirteenth Week:	Application of CAD / CAM software, Vectric Aspire, ArtCam, Mach3			

	Application of software work to practical work	
Fifteen week:	Presentation of seminars from students	
Academic Policies and Rules of Conduct:		
Regular attendance, keeping calm and active engagement in dialogue during lectures and exercises is mandatory.		