CNC MILLING MACHINE TECHNOLOGY									
1	Course Title:	CNC MIL	LLING MACHINE TECHNOLOGY						
2	Course Code:	MKNZ20	8						
3	Type of Course:	Compuls	ory						
4	Level of Course:	Short Cy	cle						
5	Year of Study:	2							
6	Semester:	4							
7	ECTS Credits Allocated:	4.00							
8	Theoretical (hour/week):	2.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	2							
11	Prerequisites:	None							
12	Language:	Turkish							
13	Mode of Delivery:	Face to f	ace						
14	Course Coordinator:	Prof. Dr. ABDİL KUŞ							
15	Course Lecturers:	Meslek Yüksekokulları Yönetim Kurullarının görevlendirdiği öğretim elemanları							
16	Contact information of the Course Coordinator:	abdilkus@uludag.edu.tr, Uludağ Üniversitesi, Teknik Bilimler MYO, Görükle-BURSA Tel: 2942344							
17	Website:								
18	Objective of the Course:	This course is preparation for work with the CNC milling machine, the program aimed to gain the competencies to make writing CNC programs and production.							
19	Contribution of the Course to Professional Development:	Developing students' competencies in CNC Milling technologies and programming							
20	Learning Outcomes:								
		1	To prepare work for the CNC Milling machine						
		2	Write programs for CNC Milling Machine						
		3	Production in the CNC machines						
		4							
		5							
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		9							
		10							
21	Course Content:		uras Contonti						
\\/	Course Content:								
	Theoretical CNC Milling machine features and pa	orte	Practice  Operation principles of the CNC Milling, machine						
2	Types of control panels, buttons, and		Operation principles of the CNC Milling machine.  Coordinate axes of the						
2	features.		machine and reference points.						
3	Cutter types, properties and possible	uses.	Tool compensation settings, tool holders.						
4	Resetting properties of the elements	used.	Reset the track to be processed according tothe team.						

			F2							
5	Tool overall processing account.		Cutting depth, angle, and progress intreatment.							
6	CNC Milling programming principles machines.		Processing and Preparation instructions.							
7	Repeating courses and midterm exa	m	-							
8	CNC Milling machines motion and cosystem.	oordinate	CNC milling machines application.							
9	CNC programming using cycles.		CNC milling machines application.							
10	Sub-programming technique and str	ucture.	CNC milling machines application.							
11	Sub-programming technique and str	ucture.	CNC milling machines application.							
12	CNC machines in the alarm and erro	r codes.	CNC milling machines application.							
13	Measuring and control		CNC milling machines application.							
14	Measuring and control		CNC milling machines application.							
22	Textbooks, References and/or Other Materials:		1-CNC milling operation manual book, 2-CNC milling usage manual book, 3-CNC Milling machine 4-Course notes 5-Gülesin, M., Güllü, A., Avcı, Ö., Akdoğan, G., "CNC Torna ve Freze Tezgahlarının Programlanması", Asil Yayın Dağıtım, Ankara, 2008.  COURSE EQUIPMENT: - CNC Milling machine, cutting tools, experiment parts, quality and measurement equipments.							
			Yayın Dağıtım, Ankara, 2008.  COURSE EQUIPMENT: - CNC Milling machine, cutting tools, experiment parts, quality and measurement							
23	Assesment		Yayın Dağıtım, Ankara, 2008.  COURSE EQUIPMENT: - CNC Milling machine, cutting tools, experiment parts, quality and measurement							
	Assesment EARNING ACTIVITIES	NUMBE R	Yayın Dağıtım, Ankara, 2008.  COURSE EQUIPMENT: - CNC Milling machine, cutting tools, experiment parts, quality and measurement							
	EARNING ACTIVITIES		Yayın Dağıtım, Ankara, 2008.  COURSE EQUIPMENT: - CNC Milling machine, cutting tools, experiment parts, quality and measurement equipments.							
TERM L	EARNING ACTIVITIES	R	Yayın Dağıtım, Ankara, 2008.  COURSE EQUIPMENT: - CNC Milling machine, cutting tools, experiment parts, quality and measurement equipments.  WEIGHT							
Midtern Quiz	EARNING ACTIVITIES	<b>R</b> 1	Yayın Dağıtım, Ankara, 2008.  COURSE EQUIPMENT: - CNC Milling machine, cutting tools, experiment parts, quality and measurement equipments.  WEIGHT  20.00							
Midtern Quiz	n Exam work-project	R 1 0	Yayın Dağıtım, Ankara, 2008.  COURSE EQUIPMENT: - CNC Milling machine, cutting tools, experiment parts, quality and measurement equipments.  WEIGHT  20.00  0.00							
Midtern Quiz Home v	n Exam work-project	R 1 0	Yayın Dağıtım, Ankara, 2008.  COURSE EQUIPMENT: - CNC Milling machine, cutting tools, experiment parts, quality and measurement equipments.  WEIGHT  20.00  0.00  20.00							
Midtern Quiz Home v Final Ex Total Contrib	n Exam work-project	R 1 0 1 1 1 3	Yayın Dağıtım, Ankara, 2008.  COURSE EQUIPMENT: - CNC Milling machine, cutting tools, experiment parts, quality and measurement equipments.  WEIGHT  20.00  0.00  20.00  60.00							
Midtern Quiz Home v Final E: Total Contrib Succes	EARNING ACTIVITIES  n Exam  work-project  xam  ution of Term (Year) Learning Activiti	R 1 0 1 1 1 3 es to	Yayın Dağıtım, Ankara, 2008.  COURSE EQUIPMENT: - CNC Milling machine, cutting tools, experiment parts, quality and measurement equipments.  WEIGHT  20.00  0.00  20.00  60.00  100.00							
Midtern Quiz Home v Final E: Total Contrib Succes	EARNING ACTIVITIES  n Exam  work-project  xam  ution of Term (Year) Learning Activities Grade	R 1 0 1 1 1 3 es to	Yayın Dağıtım, Ankara, 2008.  COURSE EQUIPMENT: - CNC Milling machine, cutting tools, experiment parts, quality and measurement equipments.  WEIGHT  20.00  0.00  20.00  60.00  100.00							
TERM L  Midtern Quiz Home v Final E: Total Contrib Success Contrib	EARNING ACTIVITIES  In Exam  Work-project  Exam  Ution of Term (Year) Learning Activities Grade  Ution of Final Exam to Success Grade  Tement and Evaluation Techniques Ution	R 1 0 1 1 3 es to	Yayın Dağıtım, Ankara, 2008.  COURSE EQUIPMENT: - CNC Milling machine, cutting tools, experiment parts, quality and measurement equipments.  WEIGHT  20.00  0.00  20.00  60.00  100.00  40.00							

Activites								1	Numb	er		Dura	Duration (hour)			Total Work Load (hour)			
Theoretical								1	14			2.00	2.00			28.00			
Practicals/Labs								1	14			2.00	2.00			28.00			
Self study and preperation								1	1			12.00	12.00			12.00			
Homeworks								2	2			10.00	10.00			20.00			
Projects								2	2			15.00	15.00			30.00			
Field Studie	Field Studies								0			0.00	0.00			0.00			
Midterm ex	Midterm exams								1			1.00	1.00			1.00			
Others	Others								0			0.00	0.00			0.00			
Final Exam	ıs							1	1			1.00	1.00			1.00			
Total Work	Load															121.00			
Total work	Total work load/ 30 hr															4.00			
ECTS Cred	lit of t	he Co	urse												4.00				
25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																			
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16			
ÖK1	0	1	0	2	0	1	0	1	0	2	0	3	0	0	0	0			
ÖK2	4	0	5	0	3	0	2	0	4	0	4	0	0	0	0	0			

LO: Learning Objectives PQ: Program Qualifications

4 High

3 Medium

0

5 Very High

0

ÖK3

Contrib

ution Level: 1 very low

2 low