| CNC MILLING MACHINE TECHNOLOGY | | | | | | | | | |
|--------------------------------|--|---|---|--|--|--|--|--|--|
| 1 | Course Title: | CNC MIL | LING MACHINE TECHNOLOGY | | | | | | |
| 2 | Course Code: | MKNZ208 | | | | | | | |
| 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 | | | | | | |
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| 21 | Course Content: | | | | | | | | |
| | Course Content: | | | | | | | | |
| Week | | | Practice | | | | | | |
| 1 | CNC Milling machine features and pa | arts. | Operation principles of the CNC Milling machine. | | | | | | |
| 2 | l ypes of control panels, buttons, and features. | 1 | 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. | | | | | | |

| 5 | Tool | ol overall processing account. | | | | | Cı an | Cutting depth, angle, and progress intreatment. | | | | | | | | | |
|-----------|---|---|--------|------------|---------|---------|------------------------------------|---|--|-----------------------------------|-----------------|--------|---------------------------|----------|-------|------|------|
| 6 | CNC mac | C Milling programming principles chines. | | | | | Pr Pr | Processing and Preparation instructions. | | | | | | | | | |
| 7 | Rep | peating courses and midterm exam | | | | | - | - | | | | | | | | | |
| 8 | CNC syste | C Milling machines motion and coordinate tem. | | | | | e CN | CNC milling machines application. | | | | | | | | | |
| 9 | CNC | ; pro | gramn | ning u | sing c | ycles. | | | C | CNC milling machines application. | | | | | | | |
| 10 | Sub- | -prog | Iramm | ing te | chniq | ue and | struct | ture. | C | CNC milling machines application. | | | | | | | |
| 11 | Sub- | prog | Iramm | ing te | chniq | ue and | struct | ture. | CN | CNC milling machines application. | | | | | | | |
| 12 | CNC | c mad | chines | s in the | e alarr | m and o | error o | odes. | CN | CNC milling machines application. | | | | | | | |
| 13 | Mea | surin | ig and | contr | ol | | | | CN | VC mill | ing ma | chines | applica | tion. | | | |
| 14 | Mea | surin | ig and | contr | ol | | | | C | VC mill | ing ma | chines | applica | tion. | | | |
| 22 | Text Mate | extbooks, References and/or Other laterials: | | | | | | 1-(2-(3- 4- 5-(To Ya | 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. | | | | | | | | |
| Activites | | | | | | | Number | | | T· - CN Dura | Duration (hour) | | Total Work Load (hour) | | | | |
| TERM® | RMI LEARNING ACTIVITIES NUMBE | | | | | | W | WÉIGHT | | | 2.00 | | 28.00 | | | | |
| Practica | als/La | abs | | | | | 1B | | | 14 | | | 2.00 | | 28.00 | | |
| Self stu | Self study and preperation | | | | | | | | | 12.00 | 12.00 | | | 12.00 | | | |
| Homew | Homeworks | | | | | | 1 | 2 | | | 10.00 | 10.00 | | 20.00 | | | |
| Project | 20t6 1 | | | | | | 2 Y. | | | | 15.00 | 15.00 | | 30.00 | | | |
| Field St | Studies | | | | | | (| 0 | | | 0.00 | | | 0.00 | | | |
| Midtern | rin exams | | | | | | | 1.00 | | | | 1.00 | | | | | |
| Others | | | | | | | | | | | | | | | 0.00 | | |
| Einal E | Exams ribution of Final Exam to Success Grade | | | | | 60 | 60.00 | | | 1.00 | 1.00 | | | 1.00 | | | |
| Total W | al Work Load | | | | | | | 0.00 | | | | | | 121.00 | | | |
| Total w | otal work load/ 30 hr | | | | | | | | | اهن ام ام ما | | | | 4.00 | | | |
| ECTS | CIS Credit of the Course | | | | | | Ladorgroduoto Education Desulation | | | | | | | | | | |
| 24 | FC | <u>, 21</u> | WOI | SKI | | TAR | | | | luergra | auuale | Euucai | ION Reg | Julation | 1. | | |
| 27 | | 107 | | | | | | | | | | | 0 7 0 1 | | | | |
| 25 | 23 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS | | | | | | | | | | | | | | | | |
| | I | PQ1 | PQ2 | PQ3 | PQ4 | PQ5 | PQ6 | PQ7 | PQ8 | PQ9 | PQ1 0 | PQ11 | PQ12 | PQ1 3 | PQ14 | PQ15 | PQ16 |
| ÖK1 | (| C | 1 | 0 | 2 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 3 | 0 | 0 | 0 | 0 |
| ÖK2 | 4 | 4 | 0 | 5 | 0 | 3 | 0 | 2 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| ÖK3 | (| 0 | 3 | 0 | 4 | 0 | 5 | 0 | 3 | 0 | 5 | 0 | 3 | 0 | 0 | 0 | 0 |
| | | | L | -0: L | earr | ning C |)bjec | tives | s F | PQ: P | rogra | m Qu | alifica | tions | ; | | |

| Contrib | 1 very low | 2 low | 3 Medium | 4 High | 5 Very High |
|---------|------------|-------|----------|--------|-------------|
| ution | | | | | |
| Level: | | | | | |