

Óbuda University Bánki Donát Faculty of Mechanical and Safety Engineering			Responsible dep.: Institute of Material and Manufacturing Science		
Subject name and ID: Computer aided design of machining technology 1 BAGFS1ANND full time course; semester: 2019/2020. I. Credits: 3					
Course: Mechanical engineering BSc/CAD-CAM III			Time:	Lec: Wed. 10:45-12:25 Lab: Wed. 12:35-13:20	Room 105 Room 105
Responsible:	Dr. Mikó Balázs Assoc. Prof.		Teacher:	Dr. Mikó Balázs	
Requirement (preliminary study)		BAGFT1ANND – Cutting tools and technology			
Number of lessons per week	Lecture: 2	Seminar: -	Lab: 1	Cons.:-	
Rating	Mark for semester work				
Curriculum					
Aim: Based on Fundamentals of manufacturing and Cutting tools and technology different manufacturing methods are presented, both in area of machining and assembly. The machining methods are classified based on typical geometry feature, like threads, shaft joints, gears and houses. The second part of the subject is supported by the theory of CNC programming in case of turning and milling technology.					
Schedule:					
Week		Topics			
			Lecture	Lab	
1	09.11	Introduction and requirements Test 0	X		
2	09.18	Machining of threads	X		
3	09.25	Manufacturing process planning and NC programming – Milling ST1		X	
4	10.02	Machining process of shaft joints	X		
5	10.09	Manufacturing process planning and NC programming – Milling		X	
6	10.16	Machining of houses ST2	X		
7	10.23	Educational break			
8	10.30	Manufacturing process planning and NC programming - Turning ST3		X	
9	11.06	Machining of gears	X		
10	11.13	Machining of bevel gears and worms Consultation of project work ST4	X		
11	11.20	Educational break			
12	11.27	Assembly process planning and automation ST5	X		
13	12.04	Dimension chain analysis		X	
14	12.11	TEST			
Requirements					
Marking: - 2 design work (NC programming) (30%) - Test (60%) - 5 small test during the semester (10%) 0-39% fail (1); 40-54% pass (2); 55-69% satisfactory (3); 70-85% good (4); 85-100% excellent (5)					
References: • Moodle • www.nct.hu					

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Dr Mikó Balázs
tárgyfelelős