Óbuda University Rénki Donét Foculty of Machanical and Safety					<i>Institute:</i> Institute of Material and Manufacturing Science			
Bánki Donát Faculty of Mechanical and Safety Engineering					Institute of Material and Manufacturing Science			
Name of th			nanufacturing B	AGGA			Credit: 4	
Full time co	•		17/2018 I.				Cituit. 4	
Programme:								
Teacher res		Mikó Balázs (PhD; ass. prof.)			Teachers: Mikó Balázs (PhD		hD; ass. prof.)	
sible for the		(-	···- , ···· F····)			(-		
subject:								
Prerequisite	s:	-						
Hours per w		cture: 2	Practice.: 0		Labs: 1	(	Consultation:	
Way of clos	ing Ex	am						
the semester	•							
			Curr	riculum				
The aim of 1	he subject	is to prese	nt the basics of m	anufaci	turing and c	utting technol	ogy, the positionin	
and fixtures	and machi	ne tools. T	The tool geometry,	, materi	als, wear pr	ocess and life	time are presented	
The differen	t cutting m	ethods (tu	rning, milling, dr	illing, g	rinding, pla	nning, shapin	g, broaching), tool	
and related	machine to	ols are des						
			Sch	nedule				
Week no.					lopics			
1.	Introduct	Introduction			Safety and ergonomics in machining work-			
	Cutting te	echnology,	cutting tools		shop			
2.	Edge geometry and tool material				Cutting tools, catalogues			
3.	Tool wea	r, forces, c	ooling					
4.		Itting test			Cutting test			
5.	Ū.	nufacturing process planning, require			Processing of cutting test data			
5.			elements, Docume					
6.	Blank materials, selection and calculation							
			ufacturing errors	,	(HW1 out)			
7.			U.S.		,			
8.	Basic cut	ic cutting methods and machine too			ools: Manufacturing process planning 2			
	turning,	0						
9.		ting metho	ds and machine t	ools:	machining			
	turning,	C						
10.	Basic cut	ting metho	ds and machine t	ools:				
	drilling							
11.	Basic cut	ting metho	ds and machine t	ools:	Milling ma	achines		
	milling							
12.								
13.		•	ods and machine t	ools:	Deadline of	of HW1		
	Grinding							
14.	Test							
			-	irement	S			
1 test in 14.		· ·	),					
1 homework	-							
0-39 %		(fail)						
40-54 9		(pass)						
55-69 9 70-84 9		(satisfactor (good)	ry)					
85-100		(good) (excellent)	1					
Literature:	/0 - 5	(cacchent)	,					
	Schneider (	Cutting too	ols applications (e	lectroni	cally availal	hle)		
							arson Singapore 7 <sup>t</sup>	
	sanvas nam.	DUIN DUILL	na. manulati	- vuzill	conne anu u			
	2014. (Cha			0 0			anson singapore ,	