

Óbuda University <i>Donát Bánki Faculty of Mechanical and Safety Engineering</i>		Faculty / area of education: BGK Institute of Material Sciences and Technology		
Subject name and code: Mechanical engineering practice II. BAGGM2ENND, BGGGME3BNE Credit:0 <i>Track: Full Time Training Session: 2019/2020 Semester: 1</i>				
Faculties in which the subject is taught:: NG, NM				
Responsible for course:	Richárd Horváth PhD		Instructors:	Szabolcs Major
Preliminary requirement: (with code)	<i>Mechanical engineering practice I. BGGGME2BNE, BAGGMIENND</i>			
Weekly hours:	Theoretical: -	Practical: 2	Labour: -	Consultation: -
Requirement type:	Signature			
Curriculum				
<i>Target of course:</i> Review: to present the basic effects of cutting, parts and operation of lathe, cutting proceedings. During the semester we are getting know milling, grinding, slotting, drilling, shaping, planing. We are going to learn the construction, operation, tools and technologies of machine tools, and gain experience in using them with simple workpiece surface making.				
Timing				
Week	Topic			
1	Orientation (basic notes of course, group assignment, exoneration) Safety instructions.			
2	Review-the basics of cutting. Parts of lathe machine, the main elements of the machine. Turning procedures.			
3	Basics of milling, parts of milling machine, handling of the machine			
4	Type of milling cutter, milling technology exposition			
5	Drilling machine's structure, movement, radial drilling machine demonstration			
6	Drilling technologies			
7	Type of grinding machine, parts and marking of grinding wheels			
8	Technology of surface and cylindrical grinding			
9	Parts of planer machine, shaper's operation			
10	Parts and operation of slotting machine, slotting tools			
11	Cutting practice I. – touch of work-piece surface, carriage motion			
12	Cutting practice II. – basics operations of the milling machine			
13	Cutting practice III. – basics operations of the drilling machine			
14	Cutting practice VI. – free practice			
Supplement type: according to Study and examination regulations of Óbuda University				
Fulfilment of Requirement: Signature: participation on practice, the maximum number of omission is the 30 % of practices. If it's more than the allowable, the student have to supply the practice on the 14.th week of semester.				
Literature: Ambrusné dr. Alady Márta, Galla Jánosné, dr. Sipos Sándor: A Gépgyártástechnológia alapjai I. (lecture notes)				