	Asse	ssment and	Subje	ect I	Description	n			
Óbuda University Kandó Kálmán Faculty of Electrical Engineering				Institute of Microelectronics and Technology					
Subject name and code: Precision mechanics, KMEFM1ETND Credits: 2									
Full time, 5th se	emester		2	2019/	20_1				
Course: Mechati	ronical engineeri	ng							
Responsible:	oonsible: Dr. Lendvay Marianna PhD Teaching Meszlényi György Staff:								
Prerequisites:									
Contact hours	Lecture: 1Class discussion:0Lab. hours: 1Tutorial: -								
per week:									
Assessment and Grade from the test during semester									
		Subject	descri	ptio	1				
Aims: Fine mec	chanical units are	e important con	nponen	nts of	f mechatronic	installati	ons. The	e students	
should acquire t	he ability to asse	ess fine mechan	ics bas	sis, p	roducts of fir	ne mechan	ics faste	nings and	
operating elements applied in fine mechanics									
Topics:								Lessons	
1st lecture: Definitions and fields of Precision Mechanics, Fastenings with elastic deformation (screw fastenings, key joints, bayonet catch, twist joints, press joints, grouting joints)								2	
Lab hours: measurement of geometrical parameters of threads. drawings								2	
2nd lecture: Joints with plastic deformation (riveting, flanging, plaiting joining by curling, lugged joints.) Eastenings with material							3.	2	
Lab hours: soldering							4	2	
3th lecture: Operation elements of fine mechanics: springs							- <del>.</del> 5	2	
Lab hour for calculations of fine mechanical apring perometers							<i>3</i> .	2	
Lab nour for calculations of the mechanical spring parameters							0. 7	2	
National nonday							7.	2	
4 in lecture: Driving elements: snafts, bearings, edge-type conical bearing							8.	2	
Lab hour: different methods of cone angle measurement							9.	2	
5th lecture: Driving and transforming elements: gears, gear drives, friction drives, threaded drives, Test about theoretical part							10.	2	
Rector's holiday							11.	2	
Lab hour: driving elements							12.	2	
Correction of fail mid-semester notes							13.	2	
Missing lab hours							14.	2	
Mid-semester assessment and evaluation									
<ul> <li>lectures, class meetings are mandatory.</li> <li>"pass" test result of lectures materials during the semester ("pass" means 50% of the maximal scores)</li> <li>"pass" result of lab hours, and documentation by protocol,</li> <li>Mid-semester note will be defined according to the test result and notes of protocols. Test result calculated in 60%</li> <li>fail tests can be repeated once on 13th, and missing lab hours on 14th</li> <li>"fail" mid-semester notes can be corrected on the first 10 working days of exam period</li> </ul>									
		Suggest	ed ma	teria	I				
Putnoki István: E	Engineering design	n, BMF-BGK-53	5, Bp 2	2004,	87/2003				
Dr.Elinger István-Dr.Goda Tibor: : Engineering design- Theory and Practice, BMF BGK 3022, Bp,2006									
Bugyjás József: Elektromechanikus szerkezetek elemei, BMF KVK-2019, Bp 2003									
1. Dr. Petrik Olivér: Finommechanika, Műszaki Könyvkiadó, Budapest 1974									
2. Hildebrand: Feinmechanische Bauelemente, VEB Verlag Technik, Berlin									
3. Krause, W.: K	ostruktionseleme	nte der Feinmecl	hanik,	Carl	Hauser Verla	g, Münche	n, 1993.		
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