		STUDY MODULE D	ESCRIPTION FORM			
Name of the module/subject Transitional Work II			(1	Code 1010252431010250218		
Field of	study		Profile of study (general academic, practical)	Year /Semester		
Mechatronics			(brak)	2/3		
Elective	path/specialty	-	Subject offered in: Polish	Course (compulsory, elective) obligatory		
Cycle of study:			Form of study (full-time,part-time)			
Second-cycle studies			full-time			
No. of h	ours	No. of credits				
Lectur	e: - Classes	s: - Laboratory: -	Project/seminars:	3 5		
Status o	of the course in the study	ld)				
		(brak)	(1	orak)		
Education areas and fields of science and art				ECTS distribution (number and %)		
techr	nical sciences			5 100%		
Technical sciences				5 100%		
Responsible for subject / lecturer: Responsible for subject / lecturer:						
dr inż. Andrzej Gessner dr inż. Andrzej Ge			dr inż. Andrzej Gessner			
ema	ail: andrzej.gessner@p	out.poznan.pl	email: andrzej.gessner@put.poznan.pl			
tel. (61 665 22 58 Iział Budowy Maszyn	i Zarzadzania	tei, oʻi boʻo 22 oo Wydział Budowy Maszyn i Zarzadzania			
ul. F	Piotrowo 3, 60-965 Po	znań	ul. Piotrowo 3, 60-965 Poznań			
Prere	quisites in term	s of knowledge, skills and	d social competencies:			
1	Knowledge	Basic knowledge of mathematics, foundations of machine designing and technology, automatics and automation				
2	Skills	Computer skills, CAD software,	using the Internet as the source	of information		
3	Social competencies	Awareness of necessity for broa during lectures and laboratory cl	dening knowledge and skills. Ab asses, ability to communicate wi	ility to comply with rules th others during classes		
Assu	mptions and obj	ectives of the course:				
The ac the use	quisition of the ability	to solve practical engineer probler ents as well as individual designed	ns by prepare the design of mec I parts together with their techno	hatronic machine/device, with logy.		
	Study outco	mes and reference to the	educational results for a	a field of study		
Know	/ledge:					
1. Basi	c knowledge about the	e use of computer to solve engine	ering problems - [-]			
2. Kno	wledge in particular te	chnical area, described by the sub	pject of given project [-]			
3. Knowledge of conducting simulations in selected commercial programming environments for analysis of behaviour of designed mechanism - [-]						
Skills						
1 Ability to conduct a research of state-of-the-art in a particular area - [-]						
2. Ability to elaborate a several variants of the design and choose the optimal - [-]						
3. Ability to use the commercial software for designing of particular machine - [-]						
Social competencies:						
1. Understanding the requirement of learning by whole life; ability to inspire and organize learning process of other people [K_K01]						
2. Ability to cooperate and work in team/group taking various roles [K_K03]						
5. Ability to define priorities leading to task completion [K_K04]						

Assessment methods of study outcomes

Project:

- project review according to settled schedule (milestones),
- evaluation of the finished project.

Receiving additional points for class activity, especially for substantial remarks to presented projects.

Course description

Project schedule: developing and using, state-of-art review in particular technical area, elaborating and evaluating of technical variants, selection of ready-made components, semi-finished products and technology, elaborating of product specification, evaluation of making cost.

Basic bibliography:

1. Peter Childs, Mechanical Design, 2004.

2. Gitin M Maitra, Handbook of mechanical design, Tata McGraw-Hill Education, 2009.

3. Michael Rider, Designing with Creo Parametric 2.0, SDC Publications, 2013.

Additional bibliography:

1. Louis Gary Lamit, Creo Parametric 2.0, ISBN-13: 978-1285190716 ISBN-10: 1285190718

2. Hong-Sen Yan, Creative Design of Mechanical Devices, Springer, 1998.

3. James G. Skakoon, Detailed Mechanical Design: A Practical Guide, ASME Press, 2000.

Result of average student's workload

Activity		Time (working hours)
1. Project	45	
2. Consultations	15	
Studer	nt's workload	
Source of workload	hours	ECTS
Total workload	60	5
Contact hours	5	0
Practical activities	45	5