		STUDY MODULE D	ESCRIPTION FORM	
Name o	f the module/subject		Code	
Dipl	oma Seminar			1010642231010640467
Field of			Profile of study (general academic, practical)	
Мес	hanical Enginee	ring	(brak)	2/3
Elective	e path/specialty	<b>Wechatronics</b>	Subject offered in: Polish	Course (compulsory, elective) obligatory
Cycle o	f study:		Form of study (full-time,part-time)	
Second-cycle studies			full-time	
No. of h	iours		"	No. of credits
Lectu	re: - Classes	s: - Laboratory: -	Project/seminars:	1 20
Status	of the course in the study	program (Basic, major, other)	(university-wide, from another fi	ield)
		(brak)	(brak)	
Education areas and fields of science and art			ECTS distribution (number and %)	
techi	nical sciences			20 100%
	Technical scie	ences		20 100%
Resp	onsible for subj	ect / lecturer:	Responsible for subject	ct / lecturer:
	ab. inż. Ireneusz Malu		dr inż. Krzysztof Talaśka	
	ail: ireneusz.malujda@ 61 665 2244	put.poznan.pl	email: krzysztof.talaska@put.poznan.pl tel. 61 224-4512	
	szyn Roboczych i Trar	asportu	Wydział Maszyn Roboczych i Transportu	
	Piotrowo 3, 60-965 Po		ul. Piotrowo 3, 60-965 Poznań	
Prere	equisites in term	is of knowledge, skills an	nd social competencies:	
1	Knowledge	General knowledge and knowle	dge and skills in the field of stud	lying a specialty.
2	Skills	Computer and MS Office skills.		
3	Social competencies	The student understands the ne cooperate within the team.	eed to expand their competence	s, shows a willingness to
Assu	mptions and obj	ectives of the course:		
		he assumptions of the methodolo ield to conduct research and pres		cute the thesis. Complementary
	Study outco	mes and reference to the	educational results for	a field of study
Knov	vledge:			
	knowledge about safe for the environment	ety and ergonomics in the design [K2A_W08]	and operation of the machines a	and the risks that machines
	general knowledge in y standards [K2A_V	the field of standardization, recorverse	mmendations and EU directives	, national, international and
		ge of modern production technolo h the use of CAM tools [K2A_W		roduction process of machine
Skills	3:			
		ific paper in a foreign language in ne sources and submit an oral pre		I on literature and other sources
		complex design project of an aver deling machines and finite eleme		
	ole to perform basic m ns [K2A_U08]	easurements of mechanical prop	erties on a selected machine us	ing modern measurement
Socia	al competencies:	:		

1. Understands the need for lifelong learning; is able to inspire and organize the learning process of others. - [K2A\_K01]

2. Is able to interact in a group taking on the different roles. - [K2A\_K03]

3. Is aware of social role of mechanical engineer, understands the need for and is able to deliver opinions and knowledge in the field of machine design, particularly through the media. - [K2A\_K06]

Assessment methods of	study outcomes	
Evaluation on the basis of the speeches and activities.		
Course descri	ption	
Origins of theses topics, the role of the promoter. Sources of scientific Formulating hypotheses. Models and modeling. Elements of scientific structure of the thesis. The technique of writing scientific papers: the	c language: regularities, laws, tl	neories, principles. The
Basic bibliography:		
1. Boć J., Jak pisać pracę magisterską, Wyd. Kolonia, Wrocław 2003		
2. Dietrich J., System i konstrukcja, WNT, Warszawa 1978		
3. Oliver P., Jak pisać prace uniwersyteckie, Wyd. Literackie, Kraków	/ 1999	
4. Orczyk J., Zarys metodyki pracy umysłowej, PWN, Warszawa 198	8	
5. Pieter J., Ogólna metodologia pracy naukowej, Ossolineum, Wroc	aw 1967	
6. Szkutnik Z., Metodyka pisania pracy dyplomowej, Wyd. Poznański	e, Poznań 2005	
7. Tarnowski W., Podstawy projektowania technicznego, WNT, Wars	zawa 1997	
8. Żółtowski B., Seminarium dyplomowe; zasady pisania prac dyplom	nowych, Wyd. ATR, Bydgoszcz	1997
Result of average stude	ent's workload	
Activity		Time (working
1. Preparation to the classes		hours)
		<b>hours)</b> 30
2. Participation in the classes		1
<ol> <li>Participation in the classes</li> <li>Preparation to the project</li> </ol>		30
•		30 15
3. Preparation to the project		30 15 400
<ol> <li>Preparation to the project</li> <li>Consultations</li> </ol>		30 15 400 30
<ol> <li>Preparation to the project</li> <li>Consultations</li> <li>Preparation to pass the exam</li> </ol>	kload	30 15 400 30 30
<ol> <li>Preparation to the project</li> <li>Consultations</li> <li>Preparation to pass the exam</li> <li>Exam</li> </ol>	kload hours	30 15 400 30 30
<ul> <li>3. Preparation to the project</li> <li>4. Consultations</li> <li>5. Preparation to pass the exam</li> <li>6. Exam</li> </ul> Student's wor	hours	30 15 400 30 30 2
<ul> <li>3. Preparation to the project</li> <li>4. Consultations</li> <li>5. Preparation to pass the exam</li> <li>6. Exam</li> </ul> Student's wor		30 15 400 30 30 2 ECTS