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		STUDY MODULE D	ESCRIPTION FORM	Л		
	of the module/subject			Code 1010612121010622331		
Field of	study		Profile of study (general academic, practi	Year /Sen	nester	
Mechanika i budowa maszyn			(brak)	icai)	1/2	
Elective	path/specialty	eering (Inżynieria produkt	Subject offered in:  Polish	,	ompulsory, elective) bligatory	
Cycle o	f study:	cring (inzymena produkt	Form of study (full-time,part-tir	l .	bligatory	
Second-cycle studies			fu	full-time		
No. of h	nours			No. of credits		
Lectu	re: 1 Classes	s: - Laboratory: -	Project/seminars:	-	1	
Status	of the course in the study	program (Basic, major, other)	(university-wide, from anoth	ner field)		
		(brak)		(brak)		
Educati	on areas and fields of sci	ence and art		ECTS dist and %)	tribution (number	
ema tel. Fac	rek Zabłocki PhD (Eng ail: Marek.Zablocki@pi 616652056 rulty of Machines and 7 trowo Street 3, 60-965	ut.poznan.pl Fransport				
Prere	equisites in term	s of knowledge, skills an	d social competencie	es:		
1	Knowledge	basic knowledge from the field o	f theory of machines, machi	ine structure, scie	ence about man;	
2	Skills	logical thinking, utilisation of info catalogues;	ogical thinking, utilisation of information acquired from the library, Internet, standards, atalogues;			
3	Social competencies	understanding the need of acquiring transferred knowledge;				
	•	ectives of the course:				
Gainin	g knowledge on the su	ubject: significance of ergonomy in	the activities of engineers			
	Study outco	mes and reference to the	educational results f	for a field of	study	
Knov	vledge:					
	•	ety and ergonomics in the design a	and operation of the machin	es and the risks t	hat machines	
Create Skills	for the environment	[KZA_VVU8]				
		complex design project of an avera	age working machine or a su	ubsystem using n	nodern CAD tools,	
	al competencies:					
1. Und	erstands the need for	lifelong learning; is able to inspire	•			
		ds the importance and impact of r it, is aware of responsibility for dec		cnanical enginee	ring activities and	

- 3. Is able to set priorities for realization of undertaken tasks. [K2A\_K04]
- 4. 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				
Lecture: course credits obtained on the basis of a colloquium				
Course description				

## **Faculty of Working Machines and Transportation**

- Position of ergonomic designing in the methodology of technical designing in machine construction (requirements in the process of technical designing);
- Anthropotechnical and sociotechnical systems, somatic and receptor interrelationships in the system;

Basic concepts: origins of ergonomy as a scientific discipline, legal protection of man;

- Analysis of anthropometric, biomechanical and psychic features and assisting design work in ergonomy: traditional approach and utilisation of CAD systems, motion capture devices or 3D scanning;
- Analysis of anthropometric and biomechanical features in virtual features;
- Detailed principles of product ergonomic designing in machine construction;
- Contemporary fields of ergonomic activity, e.g.: ergonomy for senior citizens and persons with disabilities; ergonomy of extreme works; ergonomy of leisure time and sport (design criteria, requirements, standardisation);
- Instances of knowledge integration in ergonomic designing: e.g.: typography and its significance for designing of

signalling and controlling equipment; building engineering and the altechnical objects employing empirical investigations of somatic and					
Development trends in designing for needs of ergonomy.					
Basic bibliography:					
Additional bibliography:					
Result of average stud	lent's workload				
Activity		Time (working hours)			
1		25			
Student's wo	rkload				
Source of workload	hours	ECTS			
Total workload	25	1			
Contact hours	17	0			

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Practical activities