		STUDY MODULE D	ESCRIPTION FORM	
	the module/subject		Co 10	^{de} 11105331011120136
Field of s			Profile of study	Year /Semester
		ment Dent time studies	(general academic, practical)	
Engineering Management - Part-time studies - Elective path/specialty			general academic	2/3
Elective	path/speciality	-	Subject offered in: Polish	Course (compulsory, elective) obligatory
Cycle of	study:		Form of study (full-time,part-time)	j ,
	First-cyc	ele studies	part-time	
No. of h	ours			No. of credits
Lectur	e: 14 Classes	: - Laboratory: -	Project/seminars:	4
Status o	f the course in the study	program (Basic, major, other)	(university-wide, from another field)
		other	univers	ity-wide
Educatio	on areas and fields of sci	ence and art		ECTS distribution (number and %)
techn	ical sciences			100 4%
	Technical scie	ences		100 4%
Resp	onsible for subje	ect / lecturer:		
dr in	ż. Wiesław Grzybows	ki		
	il: wieslaw.grzybowsk			
	61-665-33-77; 61-665			
	ulty of Engineering Ma strzelecka 11 60-965 F	-		
Prere	quisites in term	s of knowledge, skills and	d social competencies:	
1	Knowledge	Basic knowledge from secondary school about human being, work conditions problems and production technology area.		
2	Skills	Can aquire data from literature, o	database or other properly matche	d sources, also in English
3	Social competencies	Can work in a group		
Assu	mptions and obj	ectives of the course:		
activitie	es management which	are present in corrective and con	anizing working conditions, in relat ceptual ergonomics. Ergonomicity intees better quality and effectiver	of working conditions ought
	Study outco	mes and reference to the	educational results for a	field of study
Know	vledge:			
1. has l	basic knowledge of ec	uipment and machines life cycle	- [K01-InzA_W01]	
	0 1	oducts life cycle - [K02-InzA_W0		
	-	cial-technical systems life cycle		
Manag	ement Engineering -	[K04-InzA_W02]	s that are apllied in solving simple	engineering tasks relating
	-	essary to knowing non-technical kr	iowledge [K05-InzA_W03]	
Skills		chnologies - [K07-InzA_W05]		
		lysis of the ways in which technica	I solutions - [K01-InzA_U05]	
	suggest improvements		nical solutions that are characteris	tic of Engineering - [K01-
3. can a	assess the utility of ro	utine methods and tools for solving	g simple engineering tasks - [K0)1-InzA_W07]
Socia	I competencies:			
	come up with a sugge - [K01-InzA_K2]	stion how to make use of state-of-	the art technoogy (techniques and	I technology) within products

Assessment methods o	f study outcomes	
Credits (based on laboratories) will be given on the basis of reports	that include conducted analyses	and measurements.
Written test (based on lectures)		
Course desci	ription	
Genesis of ergonomics in terms of technology and science develop ergonomics. Ergonomics vs. health and safety- economic aspects. In Interpretation of a system as a workplace. Objectives and range of e Methods of ergonomic diagnosing. Analysis of physical workload an loads related to work. Load optimization rules. Mechanisms of percessignalling and control equipment. Developing spatial parameters of data. Assessment and development of working environment (mechar radiation, air pollution). Rules of ergonomic design. Examples of erg based positions. Ergonomics in relation to elderly and disabled peop	Human-technical object system a ergonomic activity. Current trend d thermal management of a bod eption and information processin workplace, machines and tools b unical vibrations, noise, microclin onomic design regarding mount	and his environment. s on ergonomic research. y. Analysis of mental g. Selection rules for based on anthropometric nate, lighting, harmful
Basic bibliography:		
Additional bibliography:		
Result of average stud	lent's workload	
Activity		
Activity		Time (working hours)
•		
1. Total workload 2. Contact hours		hours)
1. Total workload		hours)
1. Total workload 2. Contact hours		hours) 80 60 30 15
1. Total workload 2. Contact hours 3. Practical activities		hours) 80 60 30
Total workload Contact hours Practical activities Preparing to classes and lectures	rkload	hours) 80 60 30 15
Total workload Contact hours Practical activities Preparing to classes and lectures Preparing to exam	rkload	hours) 80 60 30 15
1. Total workload 2. Contact hours 3. Practical activities 4. Preparing to classes and lectures 5. Preparing to exam Student's wo		hours) 80 60 30 15 5
1. Total workload 2. Contact hours 3. Practical activities 4. Preparing to classes and lectures 5. Preparing to exam Student's wo Source of workload	hours	hours) 80 60 30 15 5