		STUDY MODULE D	ESCRIPTION FOR	RM	
	of the module/subject hanical Measure	ment	Code 1010604141010610398		
Field of	study		Profile of study	etical)	Year /Semester
Mechanical Engineering			(general academic, pra (brak)	ictical)	2/4
Elective path/specialty			Subject offered in: Polish		Course (compulsory, elective) obligatory
Cycle o	f study:		Form of study (full-time,part-time)		
	First-cy	cle studies	part-time		
No. of h	nours				No. of credits
Lectu	re: 10 Classe	s: - Laboratory: 8	Project/seminars:	-	3
Status	of the course in the study	program (Basic, major, other)	(university-wide, from and		
Educati	on areas and fields of sc	(brak)		ia)	ak)
Educati	on areas and lields of sc				ECTS distribution (number and %)
techi	nical sciences				3 100%
Rosn	onsible for subj	ect / lecturer	Responsible for su	ubject /	lecturer:
-	nż. Tomasz Rochatka		dr inż. Przemysław Ty	-	
	ail: tomasz.rochatka@	put.poznan.pl	email: przemysław.tyczewski@put.poznan.pl		
	61 66-52-655	Daharanah i Tarananata	tel. 61 66-52-655 Wydział Wydział Maszyn Roboczych i Transportu		
	dział wydział Maszyn Piotrowo 3, 60-965 Pc	Roboczych i Transportu znań	ul. Piotrowo 3, 60-965		
Prere	equisites in term	ns of knowledge, skills an	d social competend	ies:	
1	Knowledge	It has a basic knowledge of phys	ics, mechanics and strength of materials		
2	Skills	-XXX			
3	Social competencies	-XXX			
Assu	-	jectives of the course:			
	-	asuring the mechanical			
	Study outco	mes and reference to the	educational results	s for a	field of study
Knov	vledge:				-
1. Has	a basic knowledge of	ilinear measurement methods, str		erature a	nd fluid streams
Skills	· •	ctrical methods of measurement	[ת וא_עע וא]		
1. Is a		odern measurement equipment for	the main physical quantiti	ies used	in the study of machines and
	al competencies				
1. Has	a sense of responsib	- ility for one?s own work and is willi /e tasks [K1A_K04]	ng to comply with the prin	nciples of	teamwork and taking
		Assessment metho	ds of study outcom	es	

Assessment on the basis of test mastery of knowledge from the lectures and the current control preparation for laboratory exercises and evaluate their progress and report.

Course description

Scientific knowledge. The methodology of empirical research. Studie manufacturing and maintenance. Metrological concepts: size, owner of units. General principles of mechanical measurement methods. M Construction of the measuring system. The measurement of sensor, performing: analysis of registration and archiving of measurements. conclusions from measurement	ship, property value. measurem easurement of stress, force, tor transmitter, meter, recorder. Co	ents; definitions, systems que and rotational speed. omputer software for				
Basic bibliography:						
1. Hagel R., Zakrzewski J.: Miernictwo dynamiczne, WNT Warszawa 1984						
2. Nawrocki W.: Komputerowe systemy pomiarowe, WKŁ Warszawa 2002						
3. Piotrowski J.: Podstawy miernictwa, WNT Warszawa 2002						
Additional bibliography:						
Result of average stud	ent's workload					
Activity		Time (working hours)				
1. Udział w wykładach		15				
2. Przygotowanie do zaliczenia	7					
3. Udział w zaliczeniu	2					
4. Udział w ćwiczeniach laboratoryjnych	15					
5. Przygotowanie do ćwiczeń laboratoryjnych	12					
6. Utrwalanie treści ćwiczeń i wykonanie sprawozdania	12					
7. Udział w zaliczeniu ćwiczeń laboratoryjnych	1					
8. Konsultacje	3					
Student's wo	rkload					
Source of workload	hours	ECTS				
Total workload	67	3				
Contact hours	36	1				
Practical activities	42	2				