1010612221010610504

Course (compulsory, elective)

obligatory

3

ECTS distribution (number

1/2

Year /Semester

No. of credits

Modeling of Exploitation Systems

Name of the module/subject

Field of study

Transport

Cycle of study:

No. of hours

Lecture:

Elective path/specialty

2

Education areas and fields of science and art

dr inż. Stanisław Zwierzchowski

ul. Piotrowo 3, 60-965 Poznań

Knowlodgo

tel. 61 6652235

MRiT

Responsible for subject / lecturer:

email: stanislaw.zwierzchowski@put.poznan.pl

Food Industry Machines and Refrigeration

2 Laboratory:

Prerequisites in terms of knowledge, skills and social competencies:

Basic knowledge of reliability, vehicles construction and diagnosis.

Second-cycle studies

(brak)

Classes:

Status of the course in the study program (Basic, major, other)

STUDY MODULE DESCRIPTION FORM

Profile of study

Subject offered in:

Form of study (full-time,part-time)

Project/seminars:

(brak)

(general academic, practical)

Polish

(university-wide, from another field)

full-time

(brak)

and %)

1	Kilowieuge	
2	Skills	Student can perform simple vehicle?s diagnostics operations.
3	Social competencies	Student is able to think and act entrepreneurially.
Assı	mptions and obj	ectives of the course:
Develo	oping the ability to desi	ign and handling equipment according to the recommendations of the reliability standards.
	Study outco	mes and reference to the educational results for a field of study
Knov	vledge:	
1. Stu	dent has detailed know	vledge of reliability [K2A_W16]
Skills	s:	
1. Stu	dent can use learned n	nathematical theories to create and analyze models [K2A_U18]
Soci	al competencies:	
1. Stu	dent understands the r	need for continuous learning [K2A_K01]
		Assessment methods of study outcomes
Exami	nation of the lecture's	knowledge. Control paper of the practice part.
		Course description
safety use. H Funda effects	and environmental pro landling strategies. Sta mentals of system relia	ed on reliability. Use. Value in use of the device, the main criteria for the assessment of values: of tection, compliance with technical features, economy. Technical condition of the device during statistical basis for selection of handling strategies. Logical and mathematical basics of use. ability analysis using flowcharts, trees fitness and unfitness. Functional reliability. Disablement oles of safety technology. Technical basis for selection of handling strategies. Multi-factorial ainability research.

http://www.put.poznan.pl/

Faculty of Working Machines and Transportation

Basic bibliography:

- 1. PN?JEC 300-3-1, PN-EN 60300-2, PN-JEC 60300-3-9: Zarządzanie niezawodnością
- 2. PN-JEC 706-1 (do 5): Przewodnik dotyczący obsługiwalności urządzeń.
- 3. PN-JEC 812: Procedura analizy rodzajów i skutków uszkodzeń (FMEA, FMECA).
- 4. PN-JEC 1025: Analiza drzew niezdatności
- 5. PN-JEC 1078: Metoda schematów blokowych niezawodności

Additional bibliography:

Result of average student's workload

Activity	Time (working hours)
1. Participation in lecture	30
2. Participation in seminar	30
3. Consultations	6
4. Participation in passing exam	2
5. Exam preparedness	5

Student's workload

Source of workload	hours	ECTS			
Total workload	73	3			
Contact hours	68	3			
Practical activities	0	0			