STUDY MODULE DESCRIPTION FORM

Name of the module/subject **Logistics in safety**		Code **1011101271011113135**
Field of study **Safety Engineering - Full-time studies - First-**	Profile of study (general academic, practical) **(brak)**	Year /Semester **4 / 7**
Elective path/specialty **-**	Subject offered in: **Polish**	Course (compulsory, elective) **obligatory**

Cycle of study: **First-cycle studies**	Form of study (full-time,part-time) **full-time**

No. of hours				No. of credits **3**
Lecture: **15**	Classes: **-**	Laboratory: **-**	Project/seminars: **15**	

Status of the course in the study program (Basic, major, other) **(brak)**	(university-wide, from another field) **(brak)**

Education areas and fields of science and art **technical sciences** **Technical sciences**	ECTS distribution (number and %**)** **2 100%** **1 100%**

Responsible for subject / lecturer:	Responsible for subject / lecturer:
dr hab.inż. Marek Fertsch, prof. nadzw. email: Marek.Fertsch@put.poznan.pl tel. +48616653375 Faculty of Management ul. Strzelecka 11, 60-965 Poznań	dr inż.Przemysław Niewiadomski email: przemyslaw.niewiadomski@put.poznan.pl tel. +48692446716 Faculty of Management ul. Strzelecka 11, 60-965 Poznań

Prerequisites in terms of knowledge, skills and social competencies:

1	**Knowledge**	The student has basic knowledge of production management and production control
2	**Skills**	Student is able to properly analyze the causes and processes of production management and production control, and interpret the results of those observations.
3	**Social competencies**	The student is able to determine priorities for implementation specified by you or other tasks. The student can interact in a group.

Assumptions and objectives of the course:

The aim of the course is to acquaint students with the basics of logistics.

Study outcomes and reference to the educational results for a field of study

Knowledge:

1. The student has basic knowledge in the field of logistics. - [K1A_W29]

Skills:

1. Student can create in Polish well-documented development problems of Safety Engineering. - [K1A_U03]

2. The student is able to identify and formulate the specification of simple engineering tasks of a practical nature, characteristic of Safety Engineering. - [K1A_U14]

3. The student is able to assess the usefulness of routine methods and tools to solve simple engineering tasks of a practical nature. - [K1A_U15]

Social competencies:

1. Student ma świadomość ważności i rozumie pozatechniczne aspekty i skutki działalności inżynierskiej, i związanej z tym odpowiedzialności za podejmowane decyzje. - [K1A_K02]

2. The student is aware of the responsibility for own work and willingness to comply with the rules work in a team and to take responsibility for jointly implemented tasks. - [K1A_K03]

Assessment methods of study outcomes

Forming Rating:

a) for the design classes: based on the assessment of individual parts of the design task,

b) in respect of lectures based on written or oral replies to questions about the material covered in the current and previous lectures,

Summary Rating:

a) for the design classes: based on the development of the project.

b) in respect of lectures on the basis of assessment written content presented in the lectures.

Course description

The course covers the following topics: Basic concepts. Logistics system and its subsystems. Inventory management. Managing the flow of materials. Physical distribution. Transportation logistics. Storage. Communications in logistics. Information systems in logistics.

Basic bibliography:

1. Podstawy logistyki, Abt S., Woźniak H., Gdańsk, 1993.

2. Integral Logistic Structures, Argelo S.M., Mc Graw, Hill Company, New York, 1992.

3. Systemy logistyczne, Pfohl H.-Ch., ILiM, Poznań.

4. Logistyka w przedsiębiorstwie, Skowronek Cz., PWN, Warszawa, 1995.

Additional bibliography:

Result of average student's workload

Activity	Time (working hours)
1. Participation in lectures	15
2. Participation in project activities	15
3. Przygotowanie opracowania projektowego	20
4. Preparation of the study design	7
5. Preparing to pass lectures	7

Student's workload

Source of workload	hours	ECTS
Total workload	64	3
Contact hours	30	2
Practical activities	15	1