

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Organization of engineering management		Code 1011101441011120877
Field of study Logistics - Full-time studies - First-cycle studies	Profile of study (general academic, practical) (brak)	Year /Semester 2 / 4
Elective path/specialty -	Subject offered in: Polish	Course (compulsory, elective) elective
Cycle of study: First-cycle studies	Form of study (full-time, part-time) full-time	
No. of hours Lecture: 30 Classes: - Laboratory: - Project/seminars: 15		No. of credits 5
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 %) 5 100% 5 100%
Responsible for subject / lecturer: Ph.D., D. Sc. Aleksandra Kawecka-Endler, Ass. Prof. email: aleksandra.kawecka-endler@put.poznan.pl tel. 61- 6653370 Wydział Inżynierii Zarządzania ul. Strzelecka 11 60-965 Poznań		Responsible for subject / lecturer: -Roma Marczevska-Kuźma email: -roma.marczewska-kuzma@put.poznan.pl tel. -616653364 -Wydział Inżynierii Zarządzania -ul. Strzelecka 11 60-965 Poznań
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	The student has knowledge of business processes, design, organisation and implementation of the production processes as well as in the area of the design, evaluation, verification and implementation of production.
2	Skills	The student is able to use the knowledge acquired during the studies that enables to describe, analyse, evaluate, design and verify problems in practice.
3	Social competencies	The student is responsible, can interact with others and work in a team. The student understands the need for lifelong learning and acting in accordance with the rules.
Assumptions and objectives of the course: Knowledge of theoretical and practical problems connected with organization of production preparation and selected methods applied in this scope		
Study outcomes and reference to the educational results for a field of study		
Knowledge: 1. has knowledge of mathematical statistics required for the selection and application of the methods of descriptive statistics in the study of economic phenomena structure and logistics - [K1A_W05]		
Skills: 1. He is able independently to develop the set problem, being located in technical preparing the production - [K1A_U05] 2. He is able to formulate with applying analytical methods or simulation design task being located as part of preparing the production and to solve in detailed issues (structural, technological and organizational design of production) - [K1A_U09] 3. He is able to select the right tools and methods of solving a problem of preparing being located in a framework the production of products, and also effectively to use them - [K1A_U15]		
Social competencies: 1. He is conscious of the need of the learning through the entire life; of inspiring and organising the learning process of other persons being located in a framework of issues on technical preparing the production, - [K1A_K01] 2. He is willing the cooperation and the work in the group above solving problems being located in a framework of the organization of technical preparing the production, - [K1A_K03] 3. He is able to plan and to manage in the enterprising way - [K1A_K06]		
Assessment methods of study outcomes		

<p>Forming assessment: a) Current assessment of activity during classes. b) Lecture: basing on questions asked during the lecture, which refer to previous lectures on the subject.</p> <p>Collective assessment: - Project classes: project realized in 2 people groups and for individual data - Lectures: written exam in form of questions from the range of six issues from the content of lectures. Exam forms are always prepared for 6 different sets of questions</p>		
Course description		
<p>Production process components, range of tasks. Management of production process, technical, humanization and economical aspects. Product traits, quality and reliability. Objectives, tasks and functions of product production preparation in industrial company. Constructive, technological and organizational production preparation ? planning and designing, far-reaching and current activity. Notion and significance of technology of product construction. Technological processes of assembly. Humanization aspects of designing of process assembly. Computer Aid CAD and CAD/CAM. Curve of product life cycle. Costs of production preparation. Documentation of production preparation and flow. Organization structure of product preparation units. Designing of unit, serial and mass production; group technology, Flexible Manufacturing System. Starting new production. Innovative processes in activity of industrial company</p>		
Basic bibliography:		
<p>1. Organizacja technicznego przygotowania produkcji prac rozwojowych, Kawecka-Endler A., Politechniki Poznańskiej, Poznań, 2004 2. Inżynieria produkcji, Karpiński T., WNT, Warszawa, 2007 3. Przygotowanie produkcji, Szatkowski K., PWN, Warszawa, 2013</p>		
Additional bibliography:		
<p>1. Inżynieria zarządzania. Strategia i projektowanie systemów produkcyjnych cz.2, Durlik I., Agencja Wydawnicza Placet, Warszawa, 2005</p>		
Result of average student's workload		
Activity	Time (working hours)	
1. Lecture	30	
2. Practical exercises in designing	15	
3. Consultations ? individual contacts with the lecturer	30	
4. Exam	5	
5. Open learning	20	
Student's workload		
Source of workload	hours	ECTS
Total workload	100	5
Contact hours	75	3
Practical activities	15	1