

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Organization of engineering management		Code 1011104441011120877
Field of study Logistics - Part-time studies - First-cycle	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) part-time	
No. of hours Lecture: 12 Classes: - Laboratory: - Project/seminars: 10		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		ECTS distribution (number and %)
Responsible for subject / lecturer: prof. dr hab. inż. Aleksandra Kawecka-Endler email: aleksandra.kawecka-endler@put.poznan.pl tel. 61- 6653370 Wydział Inżynierii Zarządzania ul. Strzelecka 11 60-965 Poznań		Responsible for subject / lecturer: dr inż. Roma Marczevska-Kuzma email: roma.marczevska-kuzma@put.poznan.pl tel. 61-6653364 Wydział Inżynierii Zarządzania ul. Strzelecka 11 60-965 Poznań
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	Student has knowledge of business processes, design, organization and implementation of the production processes, as well as in the area of design, evaluation, verification and implementation of production
2	Skills	Student is able to use knowledge acquired during courses of other subjects
3	Social competencies	Student is responsible and can interact with others and work in a team Student understands the need for lifelong learning and acting in accordance with the rules
Assumptions and objectives of the course: Presenting 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 the basic knowledge on product life cycle - [W18] 2. Knows principal methods and instruments for amassing, processing and selecting data within range of processes occurring in the preparation of the production - [W19] 3. Knows principal methods and instruments for modeling processes and phenomena taking place in production - [W21] 4. Has the knowledge on relation between the sphere of technical product preparation and system management - [W24]		
Skills:		
1. Collects data on the basis of the literature to show problem concerning product production preparation - [U01] 2. Finds solutions to the problem concerning technical product preparation - [U05] 3. Applies experimental techniques and computer simulations to solve problems in product preparation - [U08] 4. Elaborates system description of the problem concerning technical product preparation - [U10] 5. Is able to forecast economically production processes and phenomena - [U12] 6. Formulates a problem appearing in production preparation as an engineering task - [U14]		
Social competencies:		

1. Is able to complete and improve own knowledge - [K01]
2. Is willing to collaborate and work in a team - [K2]
3. Can extend his knowledge taking into account other aspects and effects of engineering activity and its influence on environment - [K03]
4. Is determined to think and act in an enterprising and effective way - [K06]

Assessment methods of study outcomes

Forming assessment:

- a) Classes: Current assessment of activity during classes
- b) Lecture: basing on questions asked during the lecture, which refer to previous lectures on the subject

Final assessment:

- a) Classes: colloquium
- b) Lectures: final test

Course description

Production process components, range of tasks. Production process management, 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 preparation of the production ? planning and designing, far-reaching and current activity. Notion and significance of technology of products construction. Technological processes of assembly. Computer aid CAD and CAD/RAM. Curve of product life cycle. Costs of the production preparation. Documentation of production preparation and flow. Organization structure of product preparation units. Designing unit, serial and mass production; group technology, Flexible Manufacturing System. Starting new production. Innovative processes in activity of industrial company.

Basic bibliography:

1. Organizacja technicznego przygotowania produkcji prac rozwojowych, Kawecka-Endler A., Politechniki Poznańskiej, Poznań, 2004
2. Inżynieria produkcji, Karpiński T., WNT, Warszawa, 2007

Additional bibliography:

1. Inżynieria zarządzania. Strategia i projektowanie systemów produkcyjnych cz.2, Durlik I., Agencja Wydawnicza Placet, Warszawa, 2005

Result of average student's workload

Activity	Time (working hours)
1. Lecture	12
2. Classes	10
3. Preparation for classes	30
4. Consultations	40
5. Preparation for final test	28
6. Final test	5

Student's workload

Source of workload	hours	ECTS
Total workload	100	5
Contact hours	50	2
Practical activities	40	1