POZNAN UNIVERSITY OF TECHNOLOGY



EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS) pl. M. Skłodowskiej-Curie 5, 60-965 Poznań

COURSE DESCRIPTION CARD - SYLLABUS

Course name				
Technical and organizational production preparation				
Course				
Field of study	Year/Semester			
Management and Production Engin	2 / 4			
Area of study (specialization)		Profile of study		
		general academic		
Level of study		Course offered in		
First-cycle studies		Polish		
Form of study		Requirements		
full-time		compulsory		
Number of hours				
Lecture	Laboratory classes	Other (e.g. online)		
15				
Tutorials	Projects/seminars			
Number of credit points				
1				
Lecturers				
Responsible for the course/lecturer	*	Responsible for the course/lecturer:		
PhD., Eng.Jan Uniejewski				
email: jan.uniejewski@put.poznan	.pl			
tel. 665 2051				
Faculty of Mechanical Engineering				
Piotrowo street 3, 60-965 Poznań				
Prerequisites				
Knowledge Basics knowledge on	management, engin	eering designing		
Skills Logical thinking, the use of i	nformation obtained	l from the library and the Internet		
Social competencies Understandin	ng the need for learni	ing and acquiring new knowledge		
Course objective				

Providing students with basic knowledge about production preparation processes, developing skills in this area and raising awareness of the role of production preparation in modern enterprises



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Course-related learning outcomes

Knowledge

- 1. Student knows the objectives, scope, phases and stages of production preparation [K_W09, K_17]
- 2. He knows the place and role preparation of production in the product life cycle [K_W17, K_W20]
- 3. He knows the cycle and design strategies, the nature of concurrent engineering [K_W17, K_W20]
- 4. He knows the components of construction and technological documentation [K_W09]
- 5. He knows the principles and methods of standardization of work [K_W08, K_W09]

Skills

1. The student is able to determine the scope of work preparation of production according to production program and complexity of the product / process - [K_U08, K_U10, KU11, K_U12]

2. He can choose methods and means for the implementation of production preparation - [K_U10, K_U11, K_U12]

3. He can define standardization methods of work - [K_U12, K_U11]

Social competences

1. Student is aware to undertake the cooperation in the team - [K2_K03]

2. He is aware of the role of pre-production in today's economy and society - [K_K02]

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

The final test - the answers to three questions, each question is scored on a scale of 0 to 5; credit after obtaining at least 55% of the points., a discussion of test results

Programme content

Lecture:

Place and role of production preparation in the production system of a modern enterprise. Production process - manufacturing process - technological process. Product life cycle. Definition, goals, tasks and functions of production preparation. Technical and organizational division of production preparation. Prospective and relevant T-OPP. Structural production preparation - phases and scope, full and incomplete design cycle, design strategies - diagnostic, functional, prognostic, construction documentation. Technological preparation of production, technology, technological process and its division, performed works, technological documentation, work normalization. Technologicality of the structure. Computer support for the technical preparation of production.

Teaching methods

1. lecture: multimedia presentation, discussion and problem analysis.

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Basic

1.Szwabowski J., Elementy technicznego przygotowania produkcji, Wydawnictwo Politechniki Szczecińskiej, Szczecin 2003

2.Kawecka-Endler Al., Organizacja technicznego przygotowania produkcji. Wydawnictwo Politechniki Poznańskiej Poznań 2004

Additional

1. Pająk E.; Zarządzanie produkcją. Produkt, technologia, organizacja. Wydawnictwo Naukowe PWN Warszawa 2006 r.

2. Durlik I., Inżynieria zarządzania. Strategia i projektowanie systemów produkcyjnych. Część 1, Agencja Wydawnicza Placet, Warszawa 2000

Breakdown of average student's workload

	Hours	ECTS
Total workload	25	1,0
Classes requiring direct contact with the teacher	20	0,9
Student's own work (literature studies, preparation for laboratory	5	0,1
classes/tutorials, preparation for tests/exam, project preparation) ¹		

¹ delete or add other activities as appropriate