



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Product & Process Integration

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### Course

Field of study

Logistics

Area of study (specialization)

Level of study

First-cycle studies

Form of study

part-time

Year/Semester

2/4

Profile of study

general academic

Course offered in

polish

Requirements

elective

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### Number of hours

Lecture

8

Tutorials

Laboratory classes

Projects/seminars

8

Other (e.g. online)

### Number of credit points

2

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### Lecturers

Responsible for the course/lecturer:

dr hab. inż. Paweł Pawlewski

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tel. 616653413

Wydział Inżynierii Zarządzania

ul. Jacka Rychlewskiego 2, 60-965 Poznań

Responsible for the course/lecturer:

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### Prerequisites



Basic knowledge about production, logistics, economics. The student has the ability to associate and interpret phenomena occurring in the enterprise, is aware of the consequences of decisions

### Course objective

- analysis of manufacturing paradigms from a technical and business point of view,
- demonstrating the need for integration between engineering and business

### Course-related learning outcomes

#### Knowledge

1. knows the basic concepts of logistics and its specific issues and supply chain management - [P6S\_WG\_05]
2. knowledge of basic management issues specific to logistics and supply chain management [P6S\_WG\_08]
3. knows the basic relationships in force in logistics and its specific issues and supply chain management - [P6S\_WK\_04]
4. knows the basic phenomena and contemporary trends characteristic of logistics and its specific issues and supply chain management - [P6S\_WK\_05]
5. knows the basic methods, techniques, tools and materials used in preparation for conducting scientific research and solving simple engineering tasks in the field of designing logistics systems and processes - [P6S\_WK\_07]

#### Skills

1. can search based on the literature and other sources and present information on a problem within the logistics and its specific issues and supply chain management in an orderly manner - [P6S\_UW\_01]
2. is able to apply the proper experimental and measurement techniques to solve the problem within the studied subject, including computer simulation within logistics and its detailed issues, and supply chain management - [P6S\_UW\_03]
3. is able to design, using appropriate methods and techniques, an object, system or process that meets the requirements of logistics and its specific issues and supply chain management - [P6S\_UW\_07]
4. is able to present, using properly selected means, a problem within logistics and its specific issues, and supply chain management - [P6S\_UK\_01]
5. is able to identify changes in requirements, standards, regulations, technical progress and reality of the labor market, and based on them determine the needs of supplementing knowledge - [P6S\_UU\_01]

#### Social competences

1. is aware of the recognition of the importance of knowledge in the field of logistics and supply chain management in solving cognitive and practical problems - [P6S\_KK\_02]



2. is able to plan and manage in an entrepreneurial manner - [P6S\_KO\_01]
3. is aware of the responsible fulfillment, correct identification and resolution of dilemmas related to the logistics profession - [P6S\_KR\_01]
4. is aware of cooperation and work in a group on solving problems within logistics and supply chain management - [P6S\_KR\_02]

### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Forming assessment - exercise results, partial report

Summative assessment - final presentation, film, final report

### Programme content

manufacturing paradigms - mass production. production

### Teaching methods

informative lecture, design method

### Bibliography

Basic

1. Projektowanie produktu, Richard Morris, PWN, Warszawa, 2009
2. Nowoczesne wzornictwo od A do Z Nowoczesne wzornictwo od A do Z, Wydawnictwo Olesiejuk, 2010
3. Inżynieria zarządzania część 1, Ireneusz Durlik, Placet, 2007
4. The Global Manufacturing revolution, Yoram Koren, Wiley

Additional

1. Prawdziwe historie nowych produktów, Robert J. Thomas, Prószyński i S-ka, 2001
2. Steve Jobs, Walter Isaacson, Insignis Media , 2011

### Breakdown of average student's workload

	Hours	ECTS
Total workload	41	2,0
Classes requiring direct contact with the teacher	26	1,0
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) <sup>1</sup>	15	1,0

<sup>1</sup> delete or add other activities as appropriate