Poznan University of Technology

Faculty of Engineering Management

European **C**redit **T**ransfer **S**ystem

Title	Code
Modern production systems	**1011102311011110541**

Field	Year / Semester
Management - Full-time studies - Second-cycle studies	**1 / 1**

Specialty	Course
Production and Operations Management	**elective**

Hours	Number of credits
Lectures: **1** Classes: **-** Laboratory: **-** Projects / seminars: **15**	**3**

	Language
	polish

Lecturer:

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Status of the course in the study program:

-Elective course on the second cycle full-time studies, specialization: management.

Assumptions and objectives of the course:

-Familiarization with modern conceptions of production systems organization like: flexible manufacturing system, system organized according to the concept JiT, lean production, agile manufacturing. Students will learn how to design the mentioned systems

Contents of the course (course description):

-Typical methods and techniques of production systems design used in classical production systems. Classification of production units according to the American-European model. Methods of production systems design according to the concepts: JiT (just-in-time), lean production and agile manufacturing, TPS ? Toyota Production System. The core of flexible manufacturing system. Design and implementation of flexible manufacturing system. During design classes students design, according to guidelines given by the tutor, a selected production system.

Introductory courses and the required pre-knowledge:

-Knowledge of design methods of classical production units ? workcells (the forms of organization of direct-line production.

Courses form and teaching methods:

-Lecture, computer-aided design classes.

Form and terms of complete the course - requirements and assessment methods:

-Current activity evaluation, project, study presentation

Basic Bibliography:

Additional Bibliography: