

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

COURSE DESCRIPTION CARD - SYLLABUS

	Course
	Year/Semester
	1/1
	Profile of study
	general academic
	Course offered in
	English
	Requirements
	compulsory
	Number of hours
Laboratory classes	Other (e.g. online)
15	
Projects/seminars	
	Lecturers
Respons	ible for the course/lecturer:
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	Prerequisites
	Laboratory classes 15 Projects/seminars Respons

Knowledge of the product life cycle and the importance of shaping, machining and assembly processes in it.



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Course objective

To acquaint students with techniques for shaping and machining of machine parts and their assembly.

Course-related learning outcomes

Knowledge

The student has a general knowledge of techniques for shaping and machining machine parts and their assembly.

Skills

Student is able to determine whether the use of a particular manufacturing technique is technically and economically justified.

Social competences

Student is aware of the diversity and complementary of manufacturing techniques. Is able to use the complementary of manufacturing techniques when planning the production phase of products, taking into account environmental and social aspects.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows: Lecture: Test of checking the knowledge provided in lectures

Laboratory: Demonstrating the ability to make parts using a technique of their choice

Visits to enterprises: Presentation of analysis about the use of various manufacturing technologies of selected products

Programme content

Lecture: General characteristics of techniques for shaping or machining parts of products and their assembly. Discussion of the most important techniques of shaping or machining parts of products and their assembly: casting, plastic forming, machining, processing of plastics, joining materials. Indication of areas of application of individual techniques.

Laboratory: Independent workmanship, with the support of instructor, the indicated parts of the product.

Enterprise visits: Tracing and describing the production process of the selected product.

Teaching methods

Lecture: classical lecture, multimedia presentation illustrated with video.

Laboratorium: teamwork, discussion.

Wizyty w przedsiębiorstwach:



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Basic

K. C. JAIN, A. K. CHITALE, TEXTBOOK OF PRODUCTION ENGINEERING; PHI Learning, 2010

Additional

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Breakdown of average student's workload

	Hours	ECTS
Total workload	50	2,0
Classes requiring direct contact with the teacher	30	1,0
Student's own work (literature studies, preparation for	20	1,0
laboratory classes/tutorials, preparation for tests/exam, project		
preparation) ¹		

¹ delete or add other activities as appropriate



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