

Course name:**PLANING AND AUDITING PRODUCTION PROCESSES**

ECTS	2
Course status	complementary
Course final assesement/evaluation of outcomes	credit
Prerequisites	passing the subject production management (or similar)

Main field of study:**PRODUCTION ENGINEERING**

Profile of study	General-academic
The code of studies (education level)	SI (bachelor)
Semester of studies	winter / summer
Language of instruction	English

Course offered by:

Name of faculty offering the course	Faculty of Production Engineering and Energetics
Name of department offering the course	Department of Production Engineering, Logistics and Applied Informatics
Course coordinator	Aleksandra Lis

Learning outcomes of the course:

Symbol of outcome	Description of learning outcome	Reference to	
		main field of study outcomes	discipline#
KNOWLEDGE – student knows and/or understands:			
YAT_W1	principles of planning and organizing production processes and principles of conducting technological audits	ZIP1_W12	TZ, SZ
SKILLS – student is able to:			
YAT_U1	plan a process audit and develop checklists	ZIP1_U07	TZ
YAT_U2	estimate and assess the use of production capacity, analyze production costs and estimate economic indicators characterizing production processes	ZIP1_U13	TZ, SZ
SOCIAL COMPETENCE- student is ready to:			
YAT_K1	responsible role of an engineer in solving problems related to the company's capabilities and production capabilities	ZIP1_K04	TZ

Teaching contents:

Lectures	15 hours
Topics of the lectures	<ul style="list-style-type: none"> Production planning methods. Types and features of audit and audit planning. Technology audit methodology - selection of methodology for the purpose and scope of the audit. Comparative and causal analysis.

The role and functions of processes and process reengineering.
 Process audit, process measures, checklists, reports.
 The impact of processes on the company's operating results.

Accomplished learning outcomes	YAT_W1; YAT_K1
Verification methods, rules and criteria of outcome assessment	Written assignment Final grade share - 40%

Classes	15	hours
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Topics of the classes	Audit planning and design. Selection of the audit methodology to the purpose and scope of the audit. Comparative analysis using selected methods for a selected production processes. Causal analysis using selected methods for a selected production process. Assessment of the efficiency of production processes; preparation of recommendations and final report.
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Accomplished learning outcomes	YAT_U1, YAT_U2
Verification methods, rules and criteria of outcome assessment	together with participation in the final assesment (in %)

Seminars	...	hours
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Topics of the seminars	
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Accomplished learning outcomes	symbol of learning outcomesof the seminars
Verification methods, rules and criteria of outcome assessment	Written assignement (group project) Final grade share - 60%

References:

Basic	Welch, K. (2004). <i>The process approach audit checklist for manufacturing</i> . Quality Press. Kumar, R., & Sharma, V. (2015). <i>Auditing: Principles and practice</i> . PHI Learning Pvt. Ltd.. Chapman, S. N. (2006). <i>The fundamentals of production planning and control</i> . Upper Saddle River, NJ, USA: Pearson/Prentice Hall.
Supplementary	Russell, J. P. (2006). <i>Process auditing and techniques</i> . <i>Quality Progress</i> , 39(6), 71-74.

Structure of learning outcomes:

Discipline: # (provide appropriate symbol)	...	ECTS**
Discipline: # (provide appropriate symbol - if the course relates to more than one academic disc	...	ECTS**

Structure of student activities:

Contact hours	32	hours	1,3	ECTS**
including:				
lectures	15	hours		
classes and seminars	15	hours		
consultations	1	hours		
participation in research	0	hours		
mandatory trainershps	0	hours		
participation in examinations	1	hours		
e-learning	0	hours	0	ECTS**
student own work	18	hours	0,7	ECTS**

*** where 10 hours of classes = 1 ECTS (in case of 15 h → 2 ECTS)**

** stated with an accuracy to 0.1 ECTS, where 1 ECTS = 25 - 30 hours of classes

academic discipline code: RZ - animal science and fishery, PB - biological sciences, etc.