

COURSE SYLLABUS

University	UNIVERSITY OF ORADEA
Faculty	FACULTY OF ENERGY ENGINEERING AND INDUSTRIAL MANAGEMENT
Study program*	<i>KNITTING AND CLOTHING TECHNOLOGY</i>

I. Course Name: ANALYSIS AND CONTROL OF PRODUCTION SYSTEMS BY COSTS

II. Course Details

No of hours/week						
Code	Semester	Credits	Lecture	Seminar	Laboratory	Project
IEMI 0366	3	4	2	2		

III. Course coordinator (title, name, surname, e-mail): Assoc prof Gherghel Sabina, sgherghel@uoradea.ro

IV. Course objectives

Acquiring and understanding the basic concepts specific to the analysis and control of production systems through costs.

V. Course content	No. of hours
V.1. Lecture (chapters/subchapters and paragraphs)	
Historical landmarks in the evolution of issues and the concept of production system (PS).	2
Industrial engineering. Specific issues that fall within the scope of concerns and intervention of industrial engineering.	2
Analysis of production systems through the management of production operations. Methods, techniques and tools of industrial engineering.	2
Modeling as a means of study in production systems. Types of models. Using models in PS (Production systems engineering). Ways to approach issues in PSE.	2
Control of production systems by costs. Systems management.	2
The information system. The decision-making system. Operating system	2
The cyber system. The industrial cybernetic system. Cyber system classes.	2
The computer subsystem. Objectives of the analysis and conception of the information subsystem. The stages of the analysis methodology of an information system for PS.	2
The decision - an element of the management process. Classification of decisions. Making a decision. The equation of the decision. Management methods.	2
Physical resources in operating systems. Operating system functions.	2
The technical subsystem. The logistics subsystem. Maintenance subsystem. Transport subsystem. Supply subsystem. Maintenance subsystem.	2
The technological subsystem. Technical means of transformation.	
Production cost. Management accounting. Relevance of costs.	
Analysis of production systems through the management of production operations. Methods, techniques and tools of industrial engineering.	
V.2. Laboratory/Seminar/Project:	
Analysis of the production system (PS) in terms of activity	2
Applications	2
Structural analysis of PS expenditures	2
Applications	2
Complex analysis of PS expenditures	2
Applications	2
Analysis of the turnover of PS	2
Applications	2
Complex analysis of PS profitability	2

Applications	2
Complex analysis of the competitive position of PS	2
Applications	2
Diagnosis of the financial situation of PS	2
Applications	2

VI. Bibliography

1. Epuran, M., Băbăiță, V., Grosu C., – *Contabilitate și control de gestiune*, Ed. Economică, București, 1999
2. Gherghel S., *Managementul producției*, Curs-, Editura Universității din Oradea, 2017
3. Mărgulescu, D., Robu, V., Niculescu M., – *Diagnostic economico-financiar*, Ed. Romcart, 1996
4. Niculescu M., – *Diagnostic global strategic*, Ed. Economică, 1997
5. Niculescu, M., Lavallete G., – *Strategii de creștere*, Ed. Economică, București, 1999
6. Popa, H.L. – *Evaluarea competitivităților, Marketing & Management*. Anul XI, Vol. 4-5, 2001; p.376 – 382, ISSN 122-9105
7. Steven T. H., *Modele de success pentru managementul firmelor*. Editura Andreco Educational, București, 2009;

VII. Grading criteria

Activities	Assesment	% of final grade
Exam	Written exam: 1. Requirements in order to get the minimum grade for passing the exam. For grade 5, correct answer to 10 questions. 2. Requirements for the maximum grade For grade 10, correct answer to 20 questions.	70%
Seminar/Laboratory/Project	Completion of proposed themes.	30%

VIII. Learning outcomes:

Identifying the design and development procedures of production systems with minimum costs and maximum efficiency.

Course coordinator,

Assoc prof Gherghel Sabina