COURSE SYLLABUS

University	UNIVERSITY OF ORADEA
Faculty	FACULTY OF ENERGY ENGINEERING AND INDUSTRIAL MANAGEMENT
Study program*	*INDUSTRIAL ECONOMICS ENGINEERING*

I. Course Name: PRODUCTION MANAGEMENT

II. Course Details

No of hours/week						
Code	Semester	Credits	Lecture	Seminar	Laboratory	Project
IEMI 0602	8	4	2	2		

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

IV. Course objectives	
The main objective of the discipline is to familiarize students with some of the guidelines of modern management, able to ensure the viability and development of an industrial company.	
V. Course content	**No. of hours**
V.1. Lecture (chapters/subchapters and paragraphs)	
The enterprise and its economic requirements. Definition of enterprise; Enterprise attributes; Economic efficiency; Legal forms of enterprises.	2
Systemic approach to enterprise. Generalities; Analytical and systemic approach.	2
The evolution of the enterprise in a specific space and environment.	2
Enterprise - complex system; The key to management - flow optimization; The enterprise - a system subservient to the market.	2
Enterprise and the changing world. Market evolution.	2
The influence of the internal environment on the management; The influence of the external environment on management.	2
The transition to a market economy.	2
Quantitative and qualitative optimization.	2
Market constraints and business strategy in the market economy.	2
Added value in a complex economic circuit; Optimum quantitative + qualitative.	2
Methods of analysis of manufacturing profitability; Direct value added (D.V.A.); Value added per hour weighted (D.V.A./h.w.).	2
Product development management. Non-stop product development; Value analysis in product development; Product design.	2
Study department team.	2
Stages of product development.	2
V.2. Laboratory/Seminar/Project:	
Preparation of an optimal manufacturing program.	2
Application.	2
Case study on optimizing the production plan of an industrial company using objective functions.	2
Case study on the use of production capacity of an industrial company that makes products P1, P2, P3 and whose plan task is expressed in a representative product.	2
Application.	2
Preparation of an optimal internal transport program using linear programming.	2
Establishing the optimal technology according to the production cost criterion per product.	2
Designing the level of production capacity.	2

Establishing the production program based on the criterion of profitability.	2
Application.	2
Case study on the calculation of the economic efficiency of fixed capital.	2
Application.	2
Case study on the prediction of market phenomena.	2

VI. Bibliography

1. Gherghel S., *Managementul şi ingineria sistemelor de producţie, Colecţie de lucrări practice,* Editura Universităţii din Oradea, 2005
2. Gherghel S., 2017, *Managementul producţiei,* Seminar-, Editura Universităţii din Oradea
3. Gherghel S., 2025, *Managementul producţiei,* Seminar- Platforma e-learning
4. Militaru G., *Managementul producţiei şi al operaţiunilor*. Editura All, Bucureşti, 2008;
5. Steven T. H., *Modele de succes pentru managementul firmelor*. Editura Andreco Educational, Bucureşti, 2009;
6. Verret, E., şa - *Managementul producţiei şi al operaţiunilor*, Editura TEORA, Bucureşti, 2005

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 management.

Course coordinator,

Assoc prof Gherghel Sabina