

SUBJECT OUTLINE

1. Information on the study programme

1.1 Academic institution	UNIVERSITY OF ORADEA
1.2 Faculty	FACULTY OF ENVIRONMENTAL PROTECTION
1.3 Department	Food Engineering
1.4 Field of study	Engineering sciences
1.5 Cycle of study	License
1.6 Study programme/Qualification	Agricultural product processing technology

2. Information on the discipline

2.1 Name of discipline	Computer aided graphics						
2.2 Course holder	Professor.PhD. Curilă Mircea						
2.3 Seminar/Laboratory/Project holder	Assistant Lecturer PhD Adela Olimpia Todea						
2.4 Year of study	2	2.5 Semester	2	2.6 Type of evaluation	Summative	2.7 Regime of discipline	

(C) Compulsory; (O) Optional; (E) Elective

3. Total estimate time (hours per semester of didactic activities)

3.1 Number of hours per week	4	out of which: 3.2 course	2	out of which 3.3 seminar/laboratory/project	2	
3.4 Total hours in the curriculum	56	out of which: 3.5 course	28	out of which 3.6 seminar/laboratory/project	28	
Time allotment						
Study assisted by manual, course support, bibliography and notes						20
Additional documentation in the library/ on specialised electronic platforms and in the field						10
Preparation of seminars/laboratories/ topics/reports, portfolios and essays						10
Tutorship						2
Examinations						2
Other activities.....						12
3.7 Total hours of individual study	48					
3.9 Total hours per semester	48					
3.10 Number of credits	5					

4. Pre-requisites (where appropriate)

4.1 curriculum	Fast calculations and engineering efficiency
4.2 competences	Employment skills

5. Conditions (where appropriate)

5.1. related to course	-
5.2. related to seminar/laboratory/ project	Presentation using marker, board, computer

6. Specific competences acquired	
Professional competences	<ul style="list-style-type: none"> Organizing and carrying out the activity of counseling and professional orientation focused on the development of professional skills with the involvement of labor market representatives
Transversal competences	<ul style="list-style-type: none"> Critical thinking, problem solving, reasoning, analysis, interpretation, synthesis of information; Written and oral communication, public speaking and presentation, listening; Research skills and practices, questioning.

7. Objectives of discipline (coming from the specific competences acquired)

7.1 General objective	<ul style="list-style-type: none"> The development of logical thinking and the acquisition by students of statistical and mathematical notions and methods - theoretical foundation for specialized disciplines. Assimilation of basic knowledge from the Matlab program, indispensable for the qualification of engineer, as well as knowledge and skills for the statistical processing of the acquired experimental data. Preparing and initiating students for employment.
7.2 Specific objectives	<ul style="list-style-type: none"> Efficient use of information sources and communication and training resources. Carrying out efficiently organized team activities. Applying rigorous and efficient work norms, responsible attitude towards science, concern for the creative and optimal realization of their potential in specific situations, respecting the principles and norms of professional ethics

8. Contents*/

8.1 Course	Methods of teaching	No. of hours/Remarks
-	-	-
Bibliography -		
8.2 Seminar	Methods of teaching	No. of hours/Remarks
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Bibliography -		

8.3 Laboratory		
-Introduction in the Matlab program	Interactive lecture using computer, blackboard and marker, examples on food and interdisciplinary disciplines with other areas of the related curriculum	2
- Help menu	Practical applications, proposed problems. Practical examples from everyday life and applications on contemporary food	2
- Matrices and operations	Interactive lecture using computer, blackboard and marker, examples on food and interdisciplinary disciplines with other areas of the related curriculum	2
-Trigonometric and algebraic mathematical functions	Practical applications, proposed problems. Practical examples from everyday life and applications on contemporary food	2
- Symbolic variables and simple functions	Interactive lecture using computer, blackboard and marker, examples on food and interdisciplinary disciplines with other areas of the related curriculum	2
- Solving equations	Practical applications, proposed problems. Practical examples from everyday life and applications on contemporary food	2
- Derivation of functions	Interactive lecture using computer, blackboard and marker, examples on food and interdisciplinary disciplines with other areas of the related curriculum	2
- Elementary integrals	Practical applications, proposed problems. Practical examples from	2

	everyday life and applications on contemporary food	
- 2d representations for functions	Interactive lecture using computer, blackboard and marker, examples on food and interdisciplinary disciplines with other areas of the related curriculum	2
-Plan representations of the given curves by parametric equations	Practical applications, proposed problems. Practical examples from everyday life and applications on contemporary food	2
-3d graphic representation	Interactive lecture using computer, blackboard and marker, examples on food and interdisciplinary disciplines with other areas of the related curriculum	2
-Representation in space of given surfaces by parametric equations	Practical applications, proposed problems. Practical examples from everyday life and applications on contemporary food	2
-Spatial representation of the given curves and surfaces by default	Interactive lecture using computer, blackboard and marker, examples on food and interdisciplinary disciplines with other areas of the related curriculum	2
-Reviewing assimilated knowledge	Practical applications, proposed problems. Practical examples from everyday life and applications on contemporary food	2
Bibliography 1. Adela Olimpia Todea, Material de Studiu pentru laborator ,format electronic, 2020.		
8.4 Project		
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Bibliography		

* The content, respectively the number of hours allocated to each course / seminar / laboratory / project will be detailed during the 14 weeks of each semester of the academic year.

9. Corroboration of discipline content with the expectations of the epistemic community, professional associations and representative employers from the field corresponding to the study programme

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10. Evaluation

Type of activity	10.1 Evaluation criteria	10.2 Evaluation methods	10.3 Percentage of the final grade
10.4 Course	-	-	-
10.5 Seminar	-	-	-
10.6 Laboratory	-	-	-
10.7 Project	-	-	-
10.8 Minimum standard of performance			

Date of completion

Signature of course holder**

Signature of seminar
laboratory/project holder **
Assistant Lecturer PhD.
Adela Olimpia Todea

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Date of approval in the department

Signature of the Head of Department

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Dean signature

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** - Name, first name, academic degree and contact details (e-mail, web page, etc) will be specified.

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Signature of the Head of Department***

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Dean Signature***

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*** - Name, first name, academic degree and contact details (e-mail, web page, etc) of the academic entity beneficiary of the Discipline Outline will be specified.
