DISCIPLINE SHEET

1. Data about program

| 1. Data about program | | |
|--------------------------|---------------------------|--------------------------|
| 1.1 Academic institution | 1.1 Institution of higher | UNIVERSITY OF ORADEA |
| | education | |
| 1.2 Faculty | 1.2 Faculty | FACULTY OF ENVIRONMENTAL |
| | | PROTECTION |
| 1.3 Department | 1.3 Department | FOOD ENGINEERING |
| 1.4 Field of study | 1.4 Field of study | FOOD ENGINEERING |
| 1.5 Cycle of study | 1.5 Cycle studies | BACHELOR |
| 1.6 Study | 1.6 | CEPA/ ENGINEER |
| programme/Qualification | Curriculum/Qualifications | |

2. Data about the disciplines

| 2.1 Name of discipline | | FOOD INDUSTRY MACHINERY - PROJECT | | | | | |
|------------------------|----|---------------------------------------|------|-------------|----|---------------|----|
| 2.2 Course holder | | Lecturer dr.eng. IANCU CARMEN VIOLETA | | | | | |
| 2.3 Laboratory holder | | Lecturer dr.eng. IANCU CARMEN VIOLETA | | | | | |
| 2.4 Year of study | IV | 2.5 Semester | VIII | 2.6 Type of | Pr | 2.7 Regime of | Ob |
| | | | | evaluation | | discipline | |

Ob – Compulsory; As – associated; Op – Optional. 3. Total estimated time (hours per semester of didactic activities)

| 3.1 Number of hours per week | 1 | 1 | 3.2 out of which: | - | 3.3 out of which | 1 |
|---|---|----|-------------------|-------|------------------|----|
| | | | course | | Project | |
| 3.4 Total hours in the curriculum | 1 | 14 | 3.5 out of which: | - | 3.6 out of which | 14 |
| | | | course | | Project | |
| Time allotment | | | | hours | | |
| Study assisted by manual, course support, bibliography and notes | | | | | 4 | |
| Additional documentation in the library/ on specialised electronic platforms and in the field | | | | | 4 | |
| Preparation of seminars/laboratories/ topics/reports, portfolios and essays | | | | | 2 | |
| Tutorship | | | | | - | |
| Examinations | | | | 2 | | |
| Additional documentation in the library/ on specialised electronic platforms and in the field | | | | | | |
| 3.7 Total hours of individual 1 | 0 | | | | | |
| study | | | | | | |
| 3.9 Total hours per semester 1 | 4 | | | | | |

3.10 Number of credits 1

4. Prerequisites (where appropriate)

| 4.1 curriculum | Unit operations in the food industry | |
|-----------------|--------------------------------------|--|
| 4.2 competences | Knowledge of laboratory equipment | |

5. Conditions (where appropriate)

| 5.1. related to course | • Students will not be present at lectures, seminars/laboratories with mobile phones. It also will not be tolerated during phone calls, nor leaving by the students of the course with a view to taking over personal telephone calls;Nu va fi tolerată întârzierea studenților la curs și laborator întrucât aceasta se dovedește disruptivă la adresa procesului educațional. |
|--|---|
| 5.2. related to seminar/laboratory/ project | • The term teaching seminar work shall be established by agreement with the holder of the students. Will not be accepting applications for deferment thereof on grounds other than objective grounds. Also, for the teaching of the late works of seminar/lab work will be depunctate with 1 point per day of delay. |

| 6. Spee | cific competences acquired |
|-----------------------------|--|
| Professional competences | C2 Coordination of activities and processes on the basis of technical specifications C3 Analysis of technical solutions necessary to improve the quality of foodstuffs and for reducing costs and developing specific, monitoring and implementation of new technical projects C4 Planning, organizing and coordinating the activities of commercial and marketing in the food's profile |

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

| 7.1 General objective | Knowledge of the materials used in the construction of machinery and food plants; Knowledge in terms of design, functional, operational and maintenance of facilities, equipment, machinery and machinery used in the processes of washing, sieving, transport, shredding, sedimentation, filtering, mixing, heating, fermentation, pasteurization, condensation and drying processes of the food industry. |
|-------------------------|--|
| 7.2 Specific objectives | The application of the basic principles and methods for problem solving, well-defined situations typical domain Laboratory works are so designed as to provide The future of food engineers practical skills relating to research, operation, repair and maintenance of the food industry. The contents of the laboratory works presented are based on the need to further examine the issues presented at the course. Will understand the complexity and usefulness of these outfits and they will treat you as such. Knowledge is useful in the formation of habits relating to addressing specific problems faced by a specialist in the field of food industry. |

8. Content *

| 8.1 Course | Methods of teaching | No. of hours/Re marks | |
|---|--------------------------------|-----------------------------|--|
| 8.2. Laboratory | Interactive lecture with video | 1 | |
| | projector | | |
| 8.3.Project | | | |
| 1. Motivating machine choice | Exposure and demonstration | 1 | |
| 2. Construction of the chosen machine | Exposure and demonstration | 1 | |
| 3. Technical characteristics of interest | Exposure and demonstration | 1 | |
| 4. Operation of the machine | Exposure and demonstration | 1 | |
| 5. Principle of operation of the machine | Exposure and demonstration | 1 | |
| 6. Identification of initial data for machine calculation | Calculation | 1 | |
| 7. Choosing technical solutions | Calculation | 1 | |
| 8. Machine calculation | Calculation | 1 | |
| 9. Determining the machine efficiency | Exposure and demonstration | 1 | |
| 10. Project Presentation | Presentation | | |

Bibliography

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- 3. Măsurări electrice, vol. I, Metrologie, aparate de măsură analogice, Antoniu M., Editura Gheorge Asachi, Iasi, 1995

4. Contorul ALPHA ® Power+ MANUAL TEHNIC - Elster Rometrics, Timişoara, 2003

5. Echipamente electrice – Nicolae Badea, Editura Matrix Rom București, 2008, ISBN 978-973-755-307-2

6. Mașini electrice II, Aurel Câmpeanu, Ion Vlad, Tipografia Universității din Craiova, 2003

7. ELECTROTEHNICĂ, Dumitrescu Mariana, Munteanu Toader - Editura Europlus Galati, 2006, ISBN (10) 973-7845-26-9, ISBN (13) 978-973-7845-26-9

8. Electrotehnică și electronică, Grigore Fetecău, - Editura Academica Galați, 2006, ISBN 973-8316-96-0

9. Măsurări electrice și electronice, Grigore Fetecău, Editura Didactică și Pedagogică, București, 2003, ISBN 973-30-2667-0

10. Mașini și acționări electrice – elemente de execuție, Alexandru Fransua, Răzvan Măgureanu, Editura Tehnică, București, 1986

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

The content is adapted to discipline and meet the requirements of the labour market, being agreed by social partners, professional associations and employers in the field of licensing programme. The content of the discipline can be found in the curricula of the specialisation of CEPA and other universities from Romania who approved these specializations, so knowledge of the basic concepts is a critical requirement of the employers in the field of industry food

10. Evaluation

| Type of activity | 10.1 Evaluation criteria | 10.2 Evaluation methods | 10.3 Share in the final grade | |
|--|---------------------------------|----------------------------|-------------------------------|--|
| 10.4 Course | | | | |
| 10.5 Seminar | - | - | - | |
| 10.6 | | | | |
| Laboratory | | | | |
| 10.7 Project | Arguing technical solutions and | Project Rating | 100% | |
| | machine efficiency | | | |
| 10.8 Minimum standard of performance | | | | |
| • Eleboration of a project or process specific food industry againment, using concepts, theories and | | | | |

- Elaboration of a project or process specific food industry equipment, using concepts, theories and methods in the field
- The development of a technological project
- Preparation of a technical study by the efficient use of resources and sources of relevant and current documentation (including internet, databases, online courses.

| Date of completion | Signature of course holder |
|--------------------|--------------------------------|
| 01.06.2023 | Lecturer dr.eng. Iancu Carmen |
| | E-mail: (ciancu@uoradea.ro |
| | E-mail: (ciancu2000@yahoo.com) |

Signature of laboratory holder Lecturer dr.eng. Iancu CarmenVioleta E-mail: (<u>ciancu@uoradea.ro</u> E-mail: (<u>ciancu2000@yahoo.com</u>)

Date of approval in the department

Signature of the Head of Department Assoc.Prof.PHD.Eng.Timar Adrian <u>atimar@uoradea.ro</u>

Dean signature Assoc.Prof.PHD.Eng.MAERESCU Cristina Maria