SUBJECT DESCRIPTION

1. Information on the study programme

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1.1 The institution of higher education	UNIVERSITY OF ORADEA
1.2 Faculty	FACULTY OF ENVIRONMENTAL PROTECTION
1.3 Department	ENGINEERING OF FOOD PRODUCTS
1.4 Field of study	CONTROL AND EXPERTISE OF FOOD PRODUCTS
1.5 Cycle of study	BACHELOR
1.6 Program of study/Qualification	CONTROL AND EXPERTISE OF FOOD PRODUCTS/
	ENGINEER

2. Information on the discipline

2.1 Name of discipline	General Technology in Food Industrie II				
2.2 Course holder	TIMAR ADRIAN				
2.3 Seminar/Laboratory/Project holder	Bura	Giani			
2.4 Year of study III 2.5 Semester	VI 2.6 Type of evaluation E 2.7 Regimen of the subject			С	
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(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	2
				laboratory	
3.4 Total hours from the curriculum	56	Of which: 3.5 course	28	out of which 3.6	28
				laboratory	
Time allotment					hours
Study assisted by manual, course sup	port,	bibliography and notes			42
Additional documentation in the library/ on specialised electronic platforms and in the field					15
Preparation of seminars/laboratories/ topics/reports, portfolios and essays					10
Tutorship					10
Examinations					1
Other activities					5
3.7 Total hours of individual study 64					
3.9 Total hours per semester	1	00			
3.10 Number of credits	5				

4. Prerequisites (where appropriate)

in Therequisites (where uppropriate)					
4.1 curriculum Vegetable raw materials, Animal raw materials					
4.2 competences	Knowledge of animal and vegetable raw materials, knowledge of food industry				
	machinery				

5. Conditions (where appropriate)

5.1. related to course	Video projector, Screen
5.2. related to laboratory	Food industry specific equipment for practical applications

6. Specific competences acquired

ional ences	•	C2. Management of general engineering processes, operation of food industry facilities and equipment
Profess compet	•	C3. Supervision, management, analysis and design of food technologies from raw materials to the finished product.

	CT1. Aplicarea strategiilor de perseverență, rigurozitate, eficiență și responsabilitate în muncă, punctualitate și
	asumarea răspunderii pentru rezultatele activității personale, creativitate, gândire analitică și critică, rezolvarea de
al	probleme etc., pe baza principiilor, normelor și a valorilor codului de etică profesională în domeniul alimentar.
ers	CT2. Aplicarea tehnicilor de interrelaționare în cadrul unei echipe; amplificarea și cizelarea capacităților empatice
sve	de comunicare interpersonală și de asumare a unor atribuții specifice în desfășurarea activității de grup în vederea
an	tratării / rezolvării de conflicte individuale/de grup, precum și gestionarea optimă a timpului.
In	CT3. Utilizarea eficientă a diverselor căi și tehnici de învățare – formare pentru achiziționarea informației din
	baze de date bibliografice și electronice, atât în limba română, cât și într-o limbă de circulație internațională,
	precum si evaluarea necesității și uțilității moțivațiilor extrinseci și intrinseci ale educației conținue.

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

7.1 General objective	Knowledge by students of the main technologies in the food industry,		
	Preparation of technological manufacturing flows in the food industry.		
7.2 Specific objectives	Knowledge by students of the functional connections that are established		
	between raw materials, machinery and manufacturing technology		

8. Contents*

8.1 Course	Methods of teaching	No. of
		hours
Primary meat processing technology - transport, handling,	Interactive lecture with	2
subdivision, stunning, stabbing, bleeding	video projection	
Primary meat processing technology - skinning, depilation,	Interactive lecture with	2
evisceration, slicing, selection	video projection	
Technology of manufacture of meat preparations, thermal	Interactive lecture with	2
untreted meatstuff	video projection	
Technology for the manufacture of meat preparations, semi-	Interactive lecture with	2
smoked meatstuff	video projection	
Technology for the manufacture of meat preparations,	Interactive lecture with	2
smoked meats and specialties	video projection	
Technology for the manufacture of meat preparations, semi-	Interactive lecture with	2
preserved and canned meat	video projection	
Primary milk processing technology - milk reception,	Interactive lecture with	2
transport and conditioning	video projection	
Dairy manufacturing technology - drinking milk I	Interactive lecture with	2
	video projection	
Dairy manufacturing technology - milk consumption II -	Interactive lecture with	2
Pasteurization Dairy manufacturing technology - acid	video projection	
products - yogurt	1 5	
Dairy manufacturing technology - acid products - yogurt	Interactive lecture with	2
	video projection	
Dairy manufacturing technology - cheese	Interactive lecture with	2
5 6 65	video projection	
Dairy manufacturing technology - butter	Interactive lecture with	2
	video projection	
Dairy manufacturing technology - melted cheese	Interactive lecture with	2
	video projection	_
Dairy manufacturing technology - fresh nearl cheese	Interactive lecture with	2
Duny manufacturing technology - nesh pear cheese	video projection	

Bibliography

1. Banu C.; Alexe, Petre; Camelia Vizireanu, Procesarea industrilă a cărnii, Ed. TEHNICĂ, București, 2002,

2. Banu C., Manualul inginerului de industrie alimentară vol. I și II Editura Tehnică, București 1998.

Banu Ct., Vizireanu C. - "Procesarea industrială a laptelui", Ed. Tehnică, București, 1998, 3.

4. Timar Adrian, Tehnologia Prelucrării Cărnii, Editura Universității din Oradea, 2010

Timor Adrian Tahnalagii ganarala în industria alimantară Editure Universității din O 5

5. Timai Aurian, Tennologn generale in muusuta anmentata, E	unura Oniversnații uni Oradea, 2010	
8.2 Seminary	-	-
8.3 Laboratory	Methods of teaching	No. of hours
Preparation of technological flows in the milling	Demonstration, Practical	2
industry, determination of gluten content	Application	
Preparation of technological flows in the milling	Demonstration, Practical	2
industry, determination of protein content	Application	
Preparation of technological flows in the milling	Demonstration, Practical	2
industry, determination of water content	Application	
Preparation of technological flows in the milling	Demonstration, Practical	2
industry, determination of the Zeleny index	Application	
Preparation of technological flows for obtaining	Demonstration, Practical	2
bakery and pastry products, determining the mineral	Application	
content of flour		
Preparation of technological flows in the	Demonstration, Practical	2
manufacture of sugar, determination of types of	Application	
carbohydrates - sucrose		
Preparation of technological flows in the	Demonstration, Practical	2
manufacture of sugar products, determination of	Application	
temperature		
Preparation of technological flows for the	Demonstration, Practical	2
manufacture of spirits, determination of alcohol	Application	
content		
Preparation of technological flows in the	Demonstration, Practical	2
manufacture of fermented beverages - wine, beer,	Application	
vinegar determination of starch from seeds		
Preparation of technological flows for the	Demonstration, Practical	2
manufacture of soft drinks, determination of pH and	Application	
CO2 content		
Preparation of technological flows for vegetable	Demonstration, Practical	2
processing, temperature determination	Application	
Preparation of technological flows for processing	Demonstration, Practical	2
vegetables, determining the percentage of water	Application	
Preparation of technological flows for fruit	Demonstration, Practical	2
processing, determination of carbohydrates	Application	
Preparation of technological flows for water	Demonstration, Practical	2
conditioning, determination of free chlorine	Application	
Bibliography		
1 Timar Adrian Prelucrarea cărnii îndrumar de laborator		

2. Țibulcă Dorin; Sălăgean Claudiu-Dan Tehnologia de fabricație a preparatelor din carne - îndrumător de lucrări practice, Ed. BEDIN, Bistrița, 2004

*** Standarde de ramură, Preparate din carne, M.A.A. - C.O.C.P.C.I.A., București, 1991

* 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

Discipline provides specialists for processing and storage units, for distributors of equipment and additives in the food industry.

10. Evaluation

Type of activity	10.1 Evaluation criteria	10.2 Evaluation methods	10.3 Share in the final grade	
	- for grade 5 - 50% knowledge of the subject for grade 6 -			
10.4 Course	subject for grade 7 - 70% knowledge of the subject for grade 8 - 80% knowledge of the subject for grade 9 - 90% knowledge of the subject for grade 10 - knowledge of the subject in proportion of 100% (the student proves the consultation of the presented bibliographic material).	Summative assessment - exam - written or oral test	70%	
10.5 Seminary				
10.5 Seminary for grade 5 - the student answers 50% of the questions correctly for grade 6 - the student answers 60% of the questions correctly for grade 7 - the student answers 70% of the questions correctly for grade 8 - the student answers 80% of the questions correctly for grade 9 - the student answers 90% of the questions correctly for grade 10 - the student answers 100% of the questions correctly for Practical evaluation				
10.7 Project				
10.8 Minimum standard of performance				
Execution of specific operations in the production sphere based on the job description, respecting the				
norms and values of professional ethics. Realization of an individual project. Creating a portfolio with				
the identification	and description of profession	onal roles at the level of a st	ubordinate team. Carrying out	
a team project. Elaboration of a technical study through the efficient use of relevant and current				

Date of completion 01.10. 2020

Signature of the course holder Ş.L. dr. Ing.Timar Adrian <u>atimar@uoradea.ro</u>

sources of documentation and resources (including internet, databases, online courses, etc.)

Signature of laboratory holder Ş.L. dr. Ing.Bura Giani Date of approval in the department

01.10.2020

Signature of the Head of Department Lecturer dr. eng. Timar Adrian <u>atimar@uoradea.ro</u>

> Dean signature Prof. dr. eng. Chereji Ioan