Bachelor of Engineering (BEng.) **FOOD, GASTRONOMY AND TOURISM** (FGT)

Beginning of studies from WS 2025/2026

MODULE HANDBOOK



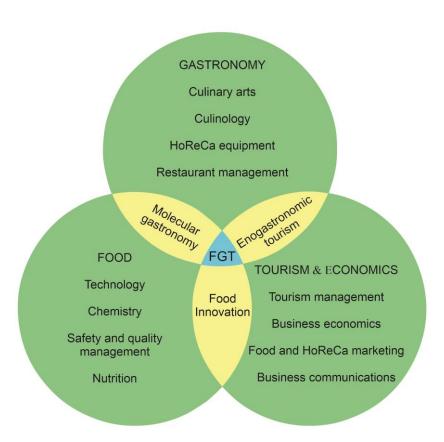
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INTRODUCTION

Study programme objectives:

- ✓ **Understand** different areas of food science, including technology, chemistry and nutrition, to develop a transdisciplinary understanding of culinary arts and gastronomic tourism.
- ✓ **Integrate** a systemic view of all actors in the food supply chain, including social, cultural, economic and environmental aspects, to understand the global impact of food, culinary and tourism industries.
- ✓ **Apply** technical skills in quality evaluation, research projects, product design, management and other knowledge-based areas of food, gastronomy and tourism.



Career opportunities:

- ✓ Executive Chef / Gastronomic manager in the food, catering or tourism industry.
- √ F&B manager.
- ✓ Research Chef / New product development manager.
- ✓ Professional consultant in food and innovation.
- ✓ Business operations manager.
- ✓ Food quality manager.
- ✓ Director of food control laboratories.

CURRICULUM

Semester			Modules			
1	Food and Beverage Quality Specifications	Introduction to Food and Culinary Innovations	Computer Skills and Information Technologies	Specialized English	Introductory Practice	Sport
2	Food Safety and Hygiene	Culinary Techniques and Processes	Introduction to Chemistry		Sport	t
3	Culinology	HoReCa Equipment	Food Chemistry and Biochemistry	Applied Mathematics and Statistics	Option	nal
4	Food and Beverage Sensory Analysis	International Gastronomy	Culinary Innovations and Molecular Gastronomy	Business Economics		
5	Engineering Systems in Food and HoReCa	Plant-derived Foodstuffs Technology	Chocolate Products and Fats Technology	Food Additives and Dietary Supplements	Pastry Pro Technol	
6	Animal-derived Foodstuffs Technology	Beverage Technology	Food Quality Management	Food, Culinary Heritage and Tourism	Food and H Marketi	
7	Restaurant Design and Organization	Tourism Management	Elective			
8	Enogastronomic Tourism	Business Communications	Ecology and Environmental Management	Practical Internship	Diploma T	Thesis
	Food	Gastronomy	Tourism / Economics	General ed	ucation	

Module Name	Introduction to Food and Culinary Innovati	ons
Code	10.80	
Number of Credits	6	
Type of Module	Compulsory	
Module	Assoc. Prof. K. Mihalev	
Coordinator		
Educational	Students	
Outcomes,	 know the stages of food product develop 	nent
Competencies,	are able to generate and evaluate new pro	oduct ideas
Qualification	are able to develop and evaluate product	concepts
	are able to consider nutritional aspects an	d to apply functional food
	ingredients in food product development	
	 are able to work in project groups 	
Module Content	Topics	Lecturers
	Practical case study 1:	Assoc. Prof. K. Mihalev
	Fruit products (Chia pearl jelly)	Asst. Prof. K. Vassilev
	Practical case study 2:	Assoc. Prof. M. Ivanova
	Dairy products (Dairy desserts with	
	encapsulated biologically active	
	compounds)	
	Practical case study 3:	Prof. S. Dragoev
	Meat products (Functional meat products)	
	Practical case study 4:	Assoc. Prof. R. Chochkov
	Pastry products (Muffins with rose petal	
	by-product)	
	Practical case study 5:	Asst. Prof. P. Nedyalkov
	Innovation in beer production (Beer	
	maturated with coconut)	
	Practical case study 6:	Asst. Prof. R. Hadjikinova
	Sugar products (Hard candy with isomalt)	
Examination	Group project	
Literature	Gilbert, K. & Prusa, K. (2021). Food product	development. Ames, IA:
	Iowa State University Digital Press. DOI:	
	https://doi.org/10.31274/isudp.2021.66	

Module Name	Food and Beverage Quality Specificat	ions
Code	10.81	
Number of Credits	6	
Type of Module	Compulsory	
Module Coordinator	Assoc. Prof. K. Mihalev	
Educational	Students	
Outcomes,	 know the various food product cates 	gories and sub-categories
Competencies,	 explain recent developments and fu 	ture trends in the food and
Qualification	beverage sector	
	 are aware of the crucial factors affect 	ting food quality
	are able to formulate their own food product specification	
Module Content	Topics	Lecturers
	Fruit and vegetable products	Assoc. Prof. K. Mihalev
	Dairy products	Assoc. Prof. T. Balabanova
	Meat and fish products	Prof. S. Dragoev
	Bread and confectionery products	Assoc. Prof. R. Chochkov
	Beverages (wine, beer, soft drinks)	Assoc. Prof. N. Stoyanov
		Assoc. Prof. V. Shopska
	Coffee, cocoa and chocolate	Asst. Prof. R. Hadjikinova
Examination	Written examination (test questions)	
Literature	Obreshkov I., Terzieva V. (2013). Quality Control of Food and	
	Beverages, UFT Academic Publishing F	louse, Plovdiv, ISBN 978-954-
	24-0219-0.	

35.46 6 Compulsory Assoc. Prof. K. Nikovska	
Compulsory Assoc. Prof. K. Nikovska	
Assoc. Prof. K. Nikovska	
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Students	
• know the main periods in the developm	nent of culinary arts, the
trends in food and nutrition, and their inf	luence on culinary
practices	
• know the main stages of the technologi	cal process for preparing
culinary products and the tools used in th	e kitchen.
 are able to perform the preliminary pro 	cessing of plant and
animal food products and will practice va	
•	-
•	of these processes
Topics	Lecturers
	Assoc. Prof. K. Nikovska
	Assoc. Prof. S. Stankov
purposes	
-	
•	
•	
50 % - assessment of performance during practical exercises and	
, , ,	
Kumar, S. A Textbook for Culinary Education. A Practical Guide for H	
Gisslen, W. Professional cooking, Seventh edition, John Wiley & So	
	don, John Whey & Johs, Ille.,
	trends in food and nutrition, and their informatices • know the main stages of the technologiculinary products and the tools used in the are able to perform the preliminary products and will practice vae acquire knowledge and skills regarding thermal, chemical, and biochemical procest the changes that occur in food as a resulter are able to work in project groups Topics Tools and equipment. Main cutting techniques and their specific culinary purposes Basic principles of cooking and food – heat transfer and heat management; cooking methods. Mise en Place. Planning and organizing production. Building flavor profiles. Seasoning and flavoring ingredients. Using herbs and spices. Stocks - Ingredients, procedures, convenience bases. Sauces - sauce types, production. 50 % - assessment of performance during the same of the

Module Name	Food Safety and Hygiene		
Code	35.47		
Number of Credits	6		
Type of Module	Compulsory		
Module Coordinator	Assoc. Prof. H. Fidan		
Educational	Educational Outcomes		
Outcomes,			
Competencies,	Understanding of Food Safety Principles		
Qualification	 Knowledge of Hazard Analysis (HACCP) 	and Critical Control Points	
	Familiarity with Foodborne Dis	seases and Prevention	
	 Regulatory Awareness- Learn a 		
	local food safety regulations ar		
	 Food Safety Management Systems 		
	Core Competencies		
	Risk Assessment and Managem	nent	
	 Implementation of Sanitation F 		
	Problem Solving and Decision Making		
	Communication of Food Safety Standards		
	Monitoring and Inspection Skills		
	Data Collection and Reporting:		
	Qualifications		
	Compliance with Food Safety Legislation		
	Hands-On Experience -practica	l experience in real-world	
	scenarios, applying food safety	and hygiene techniques in	
	kitchens, restaurants, and food	industries.	
	 Proficiency in Food Handling St 	andards	
	Knowledge of Cross-Contamination Prevention		
Module Content	Topics	Lecturers	
	INTRODUCTION TO FOOD SAFETY	Assoc. Prof. H. Fidan	
	AND HYGIENE. Definition and		
	importance of food safety. Overview		
	of foodborne illnesses and		
	outbreaks. Introduction to food		
	hygiene regulations and guidelines		
	FOODBORNE HAZARDS AND		
	CONTAMINATION. Types of		
	foodborne hazards: biological,		
	chemical, and physical. Sources of		

	contamination: raw materials,	
	handling, storage. Preventive	
	measures for foodborne illnesses.	
	THE HACCP SYSTEM. Introduction to	
	Hazard Analysis and Critical Control	
	Points (HACCP). Steps in developing	
	a HACCP plan.	
	PERSONAL HYGIENE AND	
	SANITATION IN THE KITCHEN.	
	Personal hygiene practices for food	
	handlers. Kitchen sanitation:	
	equipment and surface cleaning,	
	dishwashing protocols. Pest control	
	and waste management.	
	FOOD STORAGE AND	
	TEMPERATURE CONTROL. Safe food	
	storage techniques: FIFO (First In,	
	First Out), temperature zones, and	
	labeling.	
	FOOD HANDLING AND	
	PREPARATION. Safe food handling:	
	raw vs. cooked foods, cross-	
	contamination prevention. Allergen	
	management and food safety	
	considerations for special diets.	
	FOOD SAFETY REGULATIONS AND	
	COMPLIANCE. Overview of food	
	safety laws: international, national,	
	and local regulations.	
Examination	Written examination (test questions)	
Literature	1. Mariot, N., Schilling, M.W., Gra	avani, R.B. Principles of Food
	Sanitation, Springer Internation	nal Publishing AG, part of
	Springer Nature 2018, ISSN 157	72-0330 ISSN 2214-7799
	(electronic) Food Science Text	
	National Restaurant Associatio	
	Editions, Textbook	, 22. 100.10 000.1000001, 2 0111
	Editions, Textbook	

Module Name	Culinology	
Code	35.06	
Number of Credits	7	
Type of Module	Compulsory	
Module	Assoc. Prof. S. Stankov	
Coordinator		
Educational Outcomes, Competencies, Qualification	 Students will get: Theoretical Knowledge: Understanding of processing techniques. Knowledge of culinary techniques, ingredient functionality, and sensory evaluation. Awareness of food safety regulations, nutrition, and sustainability. Practical Skills:	
	 Developing creative solutions for food innova- Conducting experiments and interpreting sed data. Assessing the impact of ingredients, process quality. 	ensory and quality control
Module Content	Topics	Lecturers
	Culinology	Assoc. Prof. S. Stankov
	 General Concepts in Culinology Organization of Culinary Production Economic Management of the Kitchen Menu Theory Basic Technological Processes in Culinology Technology of Dishes with Vegetables and Fruits Methods of technological processing of dishes Poaching and confiting Quality of culinary production 	Assoc. Prof. H. Fidan

Technology of Dishes with Cereals and Legumes

- Technology of dishes with cereals, pseudocereals, and legumes
- Quality of culinary production

Technology of Dishes with Dairy Products and Eggs

- Application of conventional and unconventional processing methods
- · Quality of the final culinary product

Technology of Dishes with Fish, Seafood, and Non-Fish Products

- Technology of dishes with fish and seafood
- Saltwater and freshwater products in culinology
- Quality of culinary products from fish, aquaculture, and seafood

Technology of Dishes with Meat and Poultry

- Technology of dishes with meat from large ruminants, small ruminants, and pigs
- Techniques and technologies for preparing meat and poultry dishes
- Degree of culinary readiness
- Quality of culinary production

Technology of Dishes with Offal and Game Meat

- Techniques and technologies for preparing dishes with offal and game meat
- Quality of culinary production

Spices and Food Additives for Technological Purposes

- Application of natural and synthetic aromatic products in culinology
- Conditions for application
- Additives for technological purposes in culinology

Technology of Restaurant Desserts

- Basic processes in the production of restaurant desserts
- Technology of mousses and ganaches
- Restaurant dessert design
- Quality of restaurant desserts

Dish Design

- Food taste and aroma
- Fusion techniques for presentation

Examination	30% - assessment of performance during practical exercises and	
	70% - written examination	
Literature	 [1] Myhrvold, N. (2023). Modernist cuisine. The coking lab, 1-463. [2] Lopez, K. (2017). The Food Lab: Better Home Cooking Through Science. 1-3020. Additional References: [1] McGee, H. (2004). On food and cooking. The Science and Lore of the Kitchen ISBN: 1-4165-5637-0. [2] https://myfoodbook.com.au/sites/default/files/ebook_file/Dessert%20 Lovers%20Foodbook%202016.pdf [3] http://www.indian-cooking.info/EBooks/Cakes-Desserts.pdf [4] https://www.sihmbalangir.org/upload/Cakes%20&%20Pastries%20Book.pdf 	

Module Name	HoReCa Equipment		
Code	35.48		
Number of Credits	6		
Type of Module	Compulsory		
Module Coordinator	Assoc. Prof. R. Mihov		
Educational	Students will know:		
Outcomes,	• The structure, working principle and op	erating rules of	
Competencies,	professional kitchen equipment		
Qualification	Students will be able to:		
	Use professional kitchen equipment		
	Make the right choice of suitable profes	ssional kitchen equipment	
	for different technological processes and	operations.	
	Students will have competencies to:		
	 Deal with a variety of problems and ma 	ke independent decisions	
	related to HORECA equipment		
Module Content	Topics	Lecturers	
	Food preparation equipment. Structure,	Assoc. Prof. R. Mihov	
	operation principles. Rules of		
	operation.		
	Cooking equipment. Structure, principle		
	of operation. Rules of operation.		
	Dishwashing equipment. Structure,		
	principle of operation. Rules of		
	operation.		
	Refrigeration equipment. Structure,		
	principle of operation. Rules of		
	operation.		
Examination	50% - assessment of performance during practical exercises and		
	50% - written examination (test questions)		
Literature	Thomas Ch., E. J. Norman, C. Katsigris, Design and Equipment for		
Restaurants and Foodservice, John Willey & Sons Inc., Canada, 2			

Module Name	Food Chemistry and Biochemistry		
Code	03.30		
Number of Credits	3		
Type of Module	Compulsory		
Module Coordinator	Assoc. Prof. A. Slavov		
Educational	Students will:		
Outcomes,	Learn how to use the basic language of food chemistry and biochemistry		
Competencies,	competently and provide real examples.		
Qualification	• Relate the chemical structures of major food components to nutritive and qualitative properties of food systems.		
	 Understand chemical reactions and interactions v 	vith other food	
	components and differentiate their effects on the		
	properties of food.		
	Interpret chemical and biochemical transformation		
	storage and food processing with respect to food	quality and nutrient	
Madula Cantant	composition.	La atoma na	
Module Content	Topics	Lecturers	
	Food Chemistry: Carbohydrates and lipids participation in food	Assoc. Prof. A. Slavov	
	processes.		
	Major chemical reaction groups in food processes.		
	Development of food aroma and identification of		
	aromatic compounds.		
	Non-enzymatic browning reactions.	Assoc. Prof. V. Chalova	
	Food Biochemistry:	Assoc. From V. Chalova	
	Chemical structure and biological value of food		
	proteins.		
	Plant and animal proteins - inter-component		
	interactions.		
	Biochemical changes in raw materials and food		
	products during storage.		
	Application of enzymes in food production.		
Examination	80 % - Final written examination (test questions)		
	20% - Test question assessment during practical exe		
Literature	Belitz H., Grosch W., Schieberle, P., Food Chemistry (4 th Edition), Springer –Verlag, Berlin 2009.		
	O. Fenema, Food Chemistry (3 rd Edition), Marcel Drekker, INC, New York, Basel, 1996.		
	Lehninger principles of biochemistry. 3 rd edition. 2003. I		
	Worth Publishers, New York, NY		
	Proteins in food processing. 2004. Yada R. Y. (Ed.) Wood	lhead Publishing Limited and	
	CRC Press LLC		

Module Name	International Gastronomy		
Code	35.50		
Number of Credits	7		
Type of Module	Compulsory		
Module	Assoc. Prof. H. Fidan		
Coordinator			
Educational	Students will get:		
Outcomes,			
Competencies,	 Global Culinary Traditions – Understanding 	• •	
Qualification	significance, and evolution of gastronomy ir	n different regions of the	
	world.		
	2. International Ingredients and Flavors – Ide		
	ingredients, spices, and seasonings from va	•	
	3. Cooking Techniques from Around the Worl	_	
	and modern cooking methods, such as Fren		
	frying, Middle Eastern grilling, and Latin Am	erican ceviche preparation.	
	Skills Developed:		
	,		
	1. Culinary Techniques – Proficiency in prepar	• •	
	international dishes with professional techniques.		
	2. Menu Design and Recipe Development – A		
	inspired menus that cater to diverse audien		
	3. Sensory Analysis – Developing skills in evaluation of global suicines	lating texture, taste,	
	aroma, and presentation of global cuisines.	with now flavors	
	 Creativity and Innovation – Experimenting techniques, and fusion concepts in gastrone 		
	5. Kitchen Management – Organizing kitchen	•	
	team coordination in an international culina	•	
	team coordination in an international edinic	ary setting.	
Module Content	Topics	Lecturers	
	- Balkan Cuisine – Bulgarian, Turkish,	Assoc. Prof. S. Stankov	
	Albanian, Serbian. General characteristics,	Assoc. Prof. H. Fidan	
	technology, and quality of culinary production.		
	- Mediterranean Cuisine – Greek, Italian,		
	Spanish. General characteristics, technology,		
	and quality of culinary production.		
	- Asian Cuisine – Chinese, Indian, Japanese.		
	General characteristics, technology, and		
	quality of culinary production.		

- European Cuisine – French, Austrian,	
Scandinavian, Russian. General characteristics,	
technology, and quality of culinary production.	
- African and Australian Cuisines –	
Tunisian, North African, New Zealand. General	
characteristics, technology, and quality of	
culinary production.	
- North and South American Cuisines –	
Canadian and Mexican. General	
characteristics, technology, and quality of	
culinary production.	
30% - assessment of performance during practical exercises and	
70% - written examination	
References:	
Michael, F. Nenes (2009). International cuisine. Published by John Wiley &	
Sons, Inc., Hoboken, New Jersey. ISBN 978-0-470-05240-2 (cloth) ISBN 978-	
0-470-41076-9 (custom).	
Additional References:	
https://www1.agric.gov.ab.ca/\$Department/deptdocs.nsf/all/4h7895/\$FIL	
E/ExploringInternationalCuisineRB.pdf	
https://www.ihmnotes.in/assets/Docs/Sem6/FOOD%20PRODUCTION%200	
PERATIONS/Ch1%20Internation%20Cuisine.pdf	

Module Name	Culinary Innovations and Molecular Gastronomy		
Code	35.49		
Number of Credits	6		
Type of Module	Compulsory		
Module	Assoc. Prof. K. Mihalev		
Coordinator			
Educational	Students		
Outcomes,	 understand the chemistry and physics of c 	cooking processes	
Competencies,	 are able to assess the factors affecting foc 	od physical stability	
Qualification	 know the chemical nature of the hydrocol properties 	loids and their functional	
	• are able to improve performance of hydro	colloids when used in	
	food technology or professional cooking		
Module Content	Topics	Lecturers	
	Part I. INTRODUCTION TO FOOD COLLOID	Assoc. Prof. V. Gandova	
	AND SURFACE CHEMISTRY	Asst. Prof. I. Ivanova	
	1. Solutions. Water activity, osmotic		
	pressure, sorption isotherm. Phase		
	transitions of water in foods.		
	2. Dispersion systems and microstructure		
	of food; particle size distribution. Colloidal		
	solutions and dispersions: interactions,	•	
	miscibility and phase separation; gel		
	formation.		
	3. Surface properties: wettability;		
	emulsifiers and emulsions; foams.		
	Part II. FOOD AND CULINARY	Assoc. Prof. K. Mihalev	
	APPLICATIONS OF HYDROCOLLOIDS	Asst. Prof. K. Vassilev	
	4. Plant-derived gums. Starches. Natural		
	exudates (Gum Arabic / Gum Acacia).		
	Cellulose gums (Microcrystalline Cellulose,		
	Sodium Carboxymethylcellulose). Seed gums (Locust Bean Gum, Guar Gum).		
	Pectins.		
	5. Seaweed-derived gums. Red Seaweed Extracts (Agar, Carrageenan). Brown		
	Seaweed Extracts (Alginates).		
	6. Biosynthetic gums (Xanthan, Curdlan).		
Examination	Written examination (test questions)		
Literature	Nussinovitch, A. & Hirashima, M. (2014). Cookir	-	
	Hydrocolloids for Thickening, Gelling, and Emulsification. Boca Raton, FL:		
	CRC Press.		
	Walstra, P. (2003). Physical Chemistry of Foods.	New York: Marcel Dekker.	

Module Name	Food and Beverage Sensory Analysis	
Code	35.51	
Number of Credits	6	
Type of Module	Compulsory	
Module Coordinator	Assoc. Prof. Iv. Petrova	
Educational	Students	
Outcomes,	know the type and importance of huma	an perceptions as a tool for
Competencies,	assessing the different characteristics of o	quality for foods and
Qualification	drinks	
	 know the main factors influencing sense 	ory perceptions during the
	sensory assessment sessions	
	acquire knowledge, methods, technique	es and skills applied in
	qualitative and quantitative assessment of	of sensory characteristics
	for different culinary products	
	are able to measure human hedonic response	
	• are able to create the sensory profiles of	
	• are able to work as a panelist in sensory evaluation of foods and	
	drinks	
Module Content	Topics	Lecturers
	Sensory perceptions and human senses	Assoc. Prof. Iv. Petrova
	(vision, gustatory, olfaction, touch and	
	audition)	
	Factors (psychological and	
	physiological) affecting sensory	
	measurements	
	Basic principles of discriminative	
	methods for sensory assessment of foods and drinks	
	Types of descriptive methodology, tests	
	and scales Overtion pairs design in consumer	
	Questionnaire design in consumer researches	
	Requirements and planning the sensory	
	testing sessions	
	testing sessions	
Examination	50% - assessment of performance during	practical exercises and
	50% - written examination (test questions)	
Literature	Kemp, S.E, T. Hollowood, J. Hort, Sensory Evaluation: A Practical	
	Handbook, Wiley-Blackwell, 2011	
	Petrova, I. Sensory analysis of foods and drinks: theoretical foundations	
	and psychophysiology of sensory perception, Macros, 2023	

Module Name	Chocolate Products and Fats Technology		
Code	15.54		
Number of Credits	6		
Type of Module	Compulsory		
Module Coordinator	Assoc. Prof. G. Uznova		
Educational	Students		
Outcomes,	 know the technology of pressing of 	of seeds;	
Competencies,	 know the method for oil extractio 		
Qualification	 know the refining methods of oils 	;	
	 know analysis of the physicoch 	emical parameters of oil-	
	yielding raw materials and vegeta	ble oils;	
	 acquire knowledge about the b 	•	
	cocoa as a raw material for the		
	chocolate products;	•	
	 know the basic technological prod 	cesses in the production of	
	cocoa and chocolate products;	·	
	 are able to work in groups. 		
Module Content	Topics	Lecturers	
	Methods of pressimg of seed.	Assoc. Prof.	
	Solvent extraction.	G. Uzunova	
	Physical and chemical refining.	Chief assistant	
	Analysis of vegetable oils. R. Hadjikinova		
	Cocoa beans as a raw material. Botanical		
	characteristics. Types and varieties.		
	Primary processing.		
	Principle technological scheme for the		
	production of cocoa and chocolate		
	products.		
	Technology of chocolate masses. Types.		
	Normative requirements for the		
	composition - Bulgarian and European		
	legislation.		
Examination	50% - assessment of performance during practical exercises and		
	50% - written examination (test questions)		
Literature	O'Brien D., E. Far, P. Wan (2003), Introduction of Fats and Oils		
	Technology, Part 1, Second Edition, Chapter 2, 474 - 475. 1.		
	Beckett S., (2009), Industrial chocolate manufacture and use,		
	Formerly Nestlé PTC York, UK, Blackwell Publishing.		
	Minifie B., (1989), Chocolate, cocoa, and confectionery: science and		
	technology, Ana VI Book Published by Van Nostrand Reinhold, New		
	York.		

Module Name	Pastry Products Technology		
Code	12.93		
Number of Credits	6		
Type of Module	Compulsory		
Module Coordinator	Assoc. Prof. R. Chochkov		
Educational	Students		
Outcomes,	• the specific changes that occur in re	aw materials during their	
Competencies,	processing using various technologies,	_	
Qualification	• process management,		
	 methods for obtaining semi-finished 	pastry products and the	
	principles of combining them into a final	product,	
	• the changes leading to changes in the q	uality and nutritional value	
	of finished pastry products during storage	e.	
Module Content	Topics	Lecturers	
	Kneading and forming of specific pastry	Assoc. Prof. V. Chonova,	
	doughs – processes.	Assoc. Prof. R. Chochkov,	
	Methods for forming pastry dough -	Assis. D. Genev, PhD	
	processes and changes in the dough.		
	Heat treatment of pastry dough.		
	Technologies of different types of pastry		
	bases. Technologies of pastry semi-		
	finished products for forming -		
	toppings, fillings, garnishes and		
	decorations.		
	Shelf life of pastry products – processes		
	and changes.		
Examination	50% - assessment of performance during	practical exercises and	
	50% - written examination (test questions)		
Literature	Chlebana A. R. (2017) The Advanced Art of Baking and Pastry,		
	Wiley, 496 pp.		
	Jan K. (2022), Bakery and Confectionery Technology Hardcover		
	Edition by Publisher: NEW INDIA PUBLISHING AGENCY (NIPA), 282		
	pages, ISBN-10:9394490515, ISBN-13:978-9394490512.		
	The Culinary Institute of America (CIA) (2015), Baking and Pastry:		
	Mastering the Art and Craft, 3rd Edition, ISBN: 978-0-470-92865-3,		
	1136 pages. Vine Fr. T., (2012) "Practical Pastry: A Handbook For Pastrybakers, Cooks And Confectioners, 232 pp.		

Module Name	Plant-derived Foodstuffs Technology	
Code	10.82	
Number of Credits	6	
Type of Module	Compulsory	
Module Coordinator	Asst. Prof. K. Vassilev	
Educational	Students	
Outcomes,	• explain recent developments and future	trends in the fruit and
Competencies,	vegetable processing sector	
Qualification	• understand basic principles and processe	es in technology of
	different fruit and vegetable products	
	describe basic concepts and methods for	food preservation and
	understand their relation to food safety an	d quality
	 design and perform experiments applying 	g the above theoretical
	knowledge	
Module Content	Topics	Lecturers
	Processed fruits and vegetables –	Asst. Prof. K. Vassilev
	classification and definitions.	
	Fruit/vegetable morphology and	
	composition. Factors influencing quality.	
	Fruit and vegetable processing. General	
	unit operations.	
	Product-specific unit operations: fruit	
	juice; fruit jam.	
	Food preservation by high temperatures:	
	definitions; principles; process design,	
	control and optimization.	
	Food preservation by low temperatures:	
	cold chain; quality and safety of chilled	
	and frozen foods.	
	Food preservation by low water activity:	
	definitions; principles; methods.	
	Novel non-thermal methods for food	
	preservation. Combined methods.	
Examination	Written examination (test questions)	
Literature	Dauthy, M.E. (1995). Fruit and Vegetable Processing - FAO	
	Agricultural Services Bulletin No. 119. FAO, Rome, Italy.	
	http://www.fao.org/docrep/V5030e/v5030	_
	Rahman, M. S. (Ed.) (2007). Handbook of Food Preservation (2 nd ed.).	
	Taylor & Francis Group, Boca Raton, FL.	

Module Name	Beverage technology		
Code	14.37		
Number of Credits	6		
Type of Module	Compulsory		
Module Coordinator	Assoc. Prof. N. Stoyanov		
Educational	Students		
Outcomes,	• know the main raw materials for the pr	oduction of wine, beer,	
Competencies,	spirits and soft drinks		
Qualification	 know the main stages of the technolog 	ical process for the	
	production of wine, beer, spirits and soft	drinks.	
	• are able to determine and interpret the	e main parameters of raw	
	materials, the technological processes an	d the final products.	
	are able to work in project groups		
Module Content	Topics	Lecturers	
	Wine production – raw materials	Assoc. Prof. N. Stoyanov	
	composition and technological stages in	Assoc. Prof. V. Shopska	
	the production of white, rose and red		
	wines.		
	Spirits – technological stages in the		
	production of grape-based spirits		
	Beer production - raw materials and		
	technological stages in the production		
	of beer.		
	Soft drinks – classification, raw		
	materials and technological stages in		
	the production of soft drinks.		
Examination	30% - assessment of essay preparation a	nd	
	70% - written examination (test question	s)	
Literature	Joshi, V. K., Concise Encyclopedia of Science and Technology of Wine,		
	Taylor & Francis Group, LLC 2022, ISBN: 978-1-138-09275-4		
	Tamang JP, Kailasapathy K. Fermented Foods and Beverages of the		
	World, 2010, CRC Press, New York;		
	Mujtada IM. Batch distillation. Design and operation., 2004, IC Press, UK		
	Farber, M., & Barth, R. <i>Mastering brewing science: Quality and production</i> . 2019. John Wiley & Sons.		
	Stewart, G. G., Russell, I., & Anstruther, A. Handbook of brewing. 2017.		
	CRC Press.		
	Shachman, M. The soft drinks companion: a technical handbook for the		
	beverage industry. 2004. CRC Press.		

Module Name	Animal-derived Foodstuffs Technology	
Code	09.79	
Number of Credits	6	
Type of Module	Compulsory	
Module Coordinator	Assoc. Prof. Petya Boyanova	
Educational	Students:	
Outcomes,	 acquire knowledge concerning the full 	undamentals of meat and
Competencies,	milk science, processing, storage, for	ood safety, and quality
Qualification	standards;	
	 can demonstrate proficiency in the pr 	oduction of meat products
	such as sausages, ham, dry-fermented ar	nd canned meats, and also
	milk products like cheese, yogurt, butter,	and ice cream.
	 develop innovative dairy- or meat-bas 	ed products that align with
	current market trends, dietary pref	ferences, and consumer
	demands.	
	 acquire knowledge of food additives 	and their role in animal
	products' processing;	
	obtain analytical and practical knowledge about the chemical	
	composition and nutritional value of all	animal products and their
	effects on human health.	
Module Content	Tonics	Lecturers
Module Content	Topics Overview of the dairy industry:	Assoc. Prof. Petya
	importance and market trends. Types of	Boyanova,
	milk and their characteristics (cow, goat,	Assoc. Prof. Desislava
	sheep, buffalo). Composition and	Vangelova-Vlahova
	properties of milk (proteins, fats,	vangelova vlanova
	carbohydrates, vitamins, minerals).	
	Tissues in the body of slaughter animals	
	and fish. Proximate composition of	
	muscle and connective tissue. Chemistry	
	of meat colour, texture and aroma.	
	Milk production and processing: milk	
	collection, transportation, and storage	
	practices; mechanical and heat	
	treatment of milk; and quality control	
	and food safety measures in milk	
	processing.	
	Transportation and pre-slaughter	
	treatment of animals. Qualification and	
	cutting carcass meat from slaughtered	

	animals along anatomical and	
	topographic boundaries.	
	Dairy product technologies: cheese	
	technology, yogurt and fermented dairy	
	products, butter and cream production,	
	and frozen dairy products.	
	Classification of the main types of	
	groups of meat products. Nutritional	
	value and biological value of meat	
	products	
	Dairy product innovation and market	
	trends: functional dairy products	
	(probiotic, high-protein, lactose-free).	
	Use of food additives in dairy	
	(stabilizers, emulsifiers, sweeteners,	
	flavor enhancers).	
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	Types of meat raw materials and basic	
	requirements for them. Additives for	
	the production of meat products.	
	Factors influencing the technological	
	properties of meat raw materials	
	Chemical composition and nutritional	
	aspects of dairy products. Dietary	
	benefits and health effects of dairy	
	consumption. Dairy-related allergies	
	and intolerances (lactose intolerance,	
	casein sensitivity).	
	Development of functional meat	
	products, varieties, and health benefits.	
	Basics of research and development of	
	novel meat products.	
Examination	50% - assessment of performance during practical exercises and	
	50% - written examination (test questions)	
Literature	Hui, Y.H., Dairy Science and Technology Handbook: Principles and	
	Properties, 2006, Wiley-VCH, Inc., ISBN: 978-0-470-12706-3.	
	Hui, Y. H. (Ed.). (2012). Handbook of meat and meat processing. CRC	
	press.	
	Hui, Y. H. (2010). Handbook of Poultry Science and Technology, Primary	
	Processing (Vol. 1). John Wiley & Sons.	
	King, D. A., Hunt, M. C., Barbut, S., Claus, J. R., Cornforth, D. P., Joseph, P., &	
	Weber, M. (2023). American Meat Science Association guidelines for meat	
	color measurement. Meat and Muscle Biology, 6(4).	
	Ramesh C. Chandan, Arun Kilara, Nagendra P. Shah, Dairy Processing and	
	Quality Assurance, 2008, John Wiley & Sons, Inc., ISBN: 978-0-813-82756-	
	8 Saarola M (Ed.) (2011) Eunctional foods: Concept to product Elsovier	
	Saarela, M. (Ed.). (2011). Functional foods: Concept to product. Elsevier.	

Module Name	Food Quality Management		
Code	10.84		
Number of Credits	6		
Type of Module	Compulsory		
Module Coordinator	Assoc. Prof. R. Dinkova-Hadzhiyski		
Educational	This module aims to give a comprehensive	e introduction to food	
Outcomes,	quality management. On successful comp	oletion the student will be	
Competencies,	able to:		
Qualification	 Understand basic principles and principles and principles 	processes in quality	
	 Describe basic concepts for qualit 	y, supply and demand	
	chain and understand the main p		
	management and the role of inte	rested parties.	
	 Study related disciplines such as F 	ood and Beverage Quality	
	Specifications, Food Safety and H	ygiene, Consumer	
	Behavior and Marketing.		
	 Design product quality and perform 	m knowledge-based	
	decisions in planning, control and	optimization of processes.	
Module Content	Topics	Lecturers	
	Introduction to quality management:	Assoc. Prof. R. Dinkova-	
	o Quality in the agri-food chain	Hadzhiyski	
	o Quality – concept and definition		
	Quality:		
	o Quality perception		
	o Quality attributes		
	o Factors influencing wine quality		
	Quality management		
	o Management – decision-making		
	concept		
	o Techno-managerial approach		
	o Quality management activities		
	o Quality behavior		
	Quality design		
	o Quality design process		
	o Product design variables o Process design variables		
	o Tools		
	Quality control		
	o Quality control activities		
	o Tools and methods		
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	Quality improvement o Activities o Tools and methods Quality assurance o Guidelines and standards Total quality management
Examination	50% - assessment of performance during practical exercises and course work 50% - written examination (test questions)
Literature	Моллов, П. (2013). Качество на храните. Регулиране, контрол, управление. Изд. "Тем Дизайн", София. Викеviciute, L., Dierx, A., & Fabienne. (2009). The functioning of the food supply chain and its effect on food prices in the European Union. Brussels: European Commission. Chopra, S., & Meindl, P. (2016). Supply Chain Management Strategy, Planning, and Operation. Essex: Pearson. Kneafsey, M., Venn, L., Schmutz, U., Balázs, B., Trenchard, L., Eyden-Wood, T., Blackett, M. (2013). Short Food Supply Chains and Local Food Systems in the EU. A State of Play of their Socio-Economic Characteristics. Luxembourg: European Union. Krajewski, L. J., Malhotra, M. K., & Ritzman, L. P. (2016). Operations Management Processes and Supply Chains. Harlow: Pearson Education. Lysons, K., & Farrington, B. (2012). Purchasing and Supply Chain Management. London: Pearson Myerson, P. A. (2015). Supply Chain and Logistics Management Made Easy: Methods and Applications for Planning, Operations, Integration, Control and Improvement, and Network Design. London: Pearson. Ogden-Barnes, S., & Minahan, S. (2015). Sales promotion decision making: concepts, principles, and practice. New York: Business Expert Press.

Module Name	Food, Culinary Heritage and Tourism		
Code	35.52		
Number of Credits	6		
Type of Module	Compulsory		
Module Coordinator	Assoc. Prof. I. Obreshkov		
Educational	Students will know:		
Outcomes,	The system of scientific and applie	ed knowledge about food,	
Competencies,	culinary heritage, and cultural tou		
Qualification	The legal environment for the pro	otection and valorization of	
	cultural heritage;		
	Students will be able to:		
	 Integrate food and culinary herita 	age into a tourist product;	
	 Present, discuss and defend these 	- '	
	heritage, and cultural tourism;	,	
	 Create and offer a product with e 	lements of cultural	
	tourism, being familiar with its re		
	Students will have competencies for:	, ,	
	Development of cultural tourism products;		
	 Presentation of cultural heritage 	•	
	needs;		
	 Improvement of the cultural tour 	ism product	
Module Content	Topics	Lecturers	
Widdle Content	The concept of tourism.	Assoc. Prof. I. Obreshkov	
	The system of tourism.	7.556c. 1 101. 1. 051c511k01	
	Tourism industry.	1	
	Stages in the historical development of		
	tourism.		
	Leading trends in modern tourism.		
	Economic role and significance of tourism.		
	Social and health, cultural, political and		
	ecological significance of tourism.		
	Main types of tourism.	-	
	Tourism resources.	-	
	Tourism market.	-	
	Costs and prices of tourism activities. Tourism super- and infrastructure.	-	
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	tourism. Cultural values and cultural		
	heritage for the development of cultural		
	tourism. Classification of cultural tourism		
	sites.		
	Efficiency. Sustainable tourism development. Cultural tourism. Importance of cultural tourism. Cultural values and cultural heritage for the development of cultural tourism. Classification of cultural tourism		

	Regulatory framework concerning cultural	
	heritage.	
	Material, spiritual and public culture.	
	Bulgaria as a destination for cultural	
	tourism.	
	Food festivals and culinary heritage –	
	preservation of traditions and cultural	
	identity.	
Examination	60% - assessment of performance during the semester and 40% -	
	written examination (test questions)	
Literature	Обрешков, И.О. Платежоспособно туристи	ическо търсене и пазари на
	туризма – причинно-следствени връзки, Университетско издателство	
	"Паисий Хилендарски", 2021, ISBN 978-619	9-202-642-4.
	Пеев, П., И. Обрешков. Въведение в	туризма. Университетско
	издателство "Паисий Хилендарски", 2014. ISBN 978-954-423-910-7.	
	Пеев, П., И. Обрешков. Управление на	туризма. Университетско
	издателство "Паисий Хилендарски", 2015.	ISBN 978-619-202-058-3.
	Freyer, W. Tourismus Einführung in die Frem	denverkehrsökonomie.
	DeGruyter, Oldenbourg, 2015. ISBN 978-3-48	36-74194-0.

Module Name	Tourism Management		
Code	35.54		
Number of Credits	6		
Type of Module	Compulsory		
Module Coordinator	Assoc. Prof. I. Obreshkov		
Educational	Students will know:		
Outcomes,	 The aspects, types and levels of tourism management; 		
Competencies,	 The tourism structures and organizations at international, 		
Qualification	national and local levels;		
	The legal framework concerning tourism;		
	Students will be able to:		
	Develop the human potential in tourism;		
	 Make managerial decisions in tou 	rism	
	Ensure the quality management in tourism;		
	Students will have competencies for:	,	
	 Dealing with challenges in tourisn 	n at various levels of	
	tourism management		
Module Content	Topics	Lecturers	
	Evolution of management science.	Assoc. Prof. I. Obreshkov	
	General and specifics of the tourism		
	economy. Cause-and-effect relationships in		
	the tourism economy.		
	Tourism satellite accounts.		
	Multipliers in tourism.		
	Aspects, types and levels of tourism		
	management.		
	Bodies and organizations for coordination and implementation of tourism activities.		
	Tourism structures and organizations at		
	the international level. UN Tourism.		
	Tourism management at UNESCO World		
	Heritage sites.		
	Forms of international cooperation in		
	tourism. Classification of international		
	tourism organizations.		
	Franchising in tourism.		
	Tourism management at the national level.		
	Tourism management at the local level.		

	Legal environment for tourism		
	development: conventions, regulations,		
	directives, laws, ordinances.		
	Effects and efficiency in tourism.		
	Tourism management functions.		
	Management decisions in tourism.		
	Tourism exhibitions.		
	Management of human potential in		
	tourism. Robot vs. human. Professions in		
	tourism of the future. Professional		
	requirements for employees in tourism.		
	Innovations in tourism.		
	Investments in tourism.		
	Artificial intelligence in tourism, hospitality		
	and restaurant industry.		
Examination	90% - assessment of performance		
	during the semester and 10% - written		
	examination (test questions)		
Literature	Freyer, W. Tourismus Einführung in die Fremdenverkehrsökonomi	e.	
	DeGruyter, Oldenbourg, 2015. ISBN 978-3-486-74194-0.		
	Glaesser, D. Crisis Management in the Tourism Industry. Elsevier, 2003.		
	ISBN 0750679769.		
	Page, S. Tourism Management: Managing for Change. Butterworth	h-	
	Heinemann, 2009. ISBN 978-185-617-602-6.		
	Page, S.J., P. Brunt, G. Busby, J. Connell. Tourism: a modern synthesis.		
	Thomson, 2005. ISBN 978-1-844-80-415-3.		
	Pettinger, R. Introduction to Management. Macmillan Press, 1997. ISBN 0-		
	333-68-745-0.		
	Robbins, S.P., D.A. De Cenzo. Fundamentals of Management. Pearson,		
	2005. ISBN 0-13-1968718.		
	Tribe, J. The Economics of leisure and tourism. Butterworth-Heinemann		
	2003. ISBN 0750642327.		

Module Name	Restaurant Design and Organization	
Code	35.53	
Number of Credits	6	
Type of Module	Compulsory	
Module Coordinator	Asst. Prof. Ana Yaneva	
Educational	Upon successful completion, students will be able to:	
Outcomes, Competencies, Qualification	 Develop a restaurant concept tailored to a specific target market and organizational culture. Design functional restaurant layouts in accordance with industry standards and the principles of workplace ergonomics. Integrate interior design elements with branding and the overall experience of customers and employees. Create staffing plans for recruitment, training, and management, as well as effective operational workflows. Apply organizational diagnosis methods to identify strengths and weaknesses in the restaurant structure and processes. Prepare a comprehensive project plan including budgeting, design, marketing, and human resource management strategies. 	
Module Content	Topics	Lecturers
	 Introduction to Integrated Restaurant Design Types of Restaurants & Concept Development Functional Space Planning and Ergonomics Interior Design: Atmosphere, Style & Employee Impact Financial Planning & Cost Estimation Branding & Marketing Through Design & Organizational Culture Organizational Structure & Workflows 	Asst. Prof. Ana Yaneva
Examination	Class Participation 30%Design Case Study 30%	1

	Final Project and Presentation 40%	
Literature	Industry reports, trend articles, and selected case studies (provided	
	by lecturer)	
	"Restaurant Planning and Design" by Fred Lawson	
	"Strategic Human Resource Management" by Michael Armstrong	
	"Human Resource Management in the Hospitality Industry" by	
	Michael Riley, Cathy Huyton, and Richard Ladkin	
	"Organizational Diagnosis: A Practitioner's Guide" by David A.	
	Nadler	
	"Organizational Culture and Leadership" by Edgar H. Schein	
	"Restaurant Branding: Building a Successful Hospitality Business"	
	by Tim Brown	
	"Marketing for Restaurants" by Michael M. Coltman	

Enogastronomic tourism		
35.55		
5		
Compulsory		
Assoc. Prof. K. Nikovska		
Students		
are able to analyze and interpret culinary and wine traditions		
as part of regional identity and tourism appeal		
• know the design and promotion of enogastronomic routes,		
festivals, and events.		
_ = =	d and wine experiences	
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-	Lecturers	
_	Assoc. Prof. K. Nikovska	
•	Asst. Prof. A. Titeryakova	
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Case Studies and Best Practices.		
destinations. Successful models of		
gastronomic branding. Innovation in		
wine and food tourism.		
	35.55 Compulsory Assoc. Prof. K. Nikovska Students are able to analyze and interpret of as part of regional identity and tourism ap know the design and promotion of festivals, and events. are able to design and present food tailored to tourist expectations. are able to use of storytelling technexperience through food and wine narratireare able to work in project groups Topics Introduction to Enogastronomic Tourism. Definitions and scope. Historical and cultural foundations. Trends and global perspectives. Food and Wine Production Basics. Overview of viticulture and winemaking. Artisanal and traditional food production. Quality and authenticity standards. Sensory Analysis and Visitor Engagement. Basics of wine and food tasting. Designing tasting sessions and workshops. Engaging visitors through interactive experiences. Tourism Experience Design. Enogastronomic routes and trails. Culinary storytelling and theming. Integration with agri- and rural tourism. Case Studies and Best Practices. European and global enogastronomic destinations. Successful models of gastronomic branding. Innovation in	

Examination	50 % - Project design	
	50% - written examination (test questions)	
Literature	Hall, C. M., Sharples, L., Cambourne, B., & Macionis, N. (Eds.). (2000). Wine tourism around the world: Development, management and markets. Oxford: Butterworth-Heinemann. Ellis, A., Park, E., Kim, S., & Yeoman, I. (2018). What is food tourism?. Tourism Management, 68, 250–263.	
	Everett, S. (2016). Food and Drink Tourism: Principles and Practice. SAGE Publications. Hall, C.M., Sharples, E., Mitchell, R., Cambourne, B., & Macionis, N. (eds.) 2003, Food Tourism Around the World: Development, Management and Markets, Butterworth-Heinemann, Oxford. 373pp	