

Transilvania University of Braşov, Romania

Study program: Engineering and Management in Food and Agritourism

Faculty: Food and Tourism

Study period: 4 years (bachelor)

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Basics of computer use	BUC	Romanian	5	2	-	2	-

Course description (Syllabus): main hardware and software computer components; operating systems; peripherals; specific software applications for food industry; web browsing.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Mathematics	MAT	Romanian	5	-	2	2	-

Course description (Syllabus): elementary functions. analytic geometry; vector calculation; sequences and series of real numbers; definitions; convergence of sequences; series with nonnegative terms; absolute convergence; alternating series; functions of a real variable; limit of a function; derivative of a function; functions of several real variables; functions of two variables (limits. continuity); partial derivatives; maximum and minimum values of functions; definite integrals.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Physics and climatology	FIZ	Romanian	5	2	-	2	-

Course description (Syllabus): physics fundamentals; climatology; introduction; the atmosphere; the physical basis of climate; genetic factors of climate; weather and climate; weather and climate information in tourism; climatography; climate classifications; weather changes; climatic resources on the Romanian territory.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Chemistry	CHIM	Romanian	5	2	-	2	-

Course description (Syllabus): General concepts of chemistry (atom, molecule, mole equivalent), Chemical compound. Oxides, acid, base and salt, Water. Molecular and colloidal disperse systems (ebulioscopie, freezing electrolytic dissociation, pH, hydrolysis, buffer systems, Electrolysis of melts and solutions, Macromolecular compounds. Composite materials. Glass.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Ecology and environmental protection	EPM	Romanian	5	2	2	-	-

Course description (Syllabus): ecology, environmental engineering and human activity; ecology principles and application in tourism and hospitality industry; the structure and functions of ecosystems; agro ecosystems; pollution and population sources in agro tourist ecosystems; environmental protection in the field of agriculture – food industry – tourism.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Academic ethics and integrity	EIA	Romanian	2	1	1	-	-

Course description (Syllabus): Academic writing: text, discourse writer, reader. Importance of ethics in scientific research, Drawing the reader's attention; Paraphrasing texts; Academic structures used in scientific texts I, Citing and combining cited sources; Academic structures used in scientific texts II, Organizing texts, extracting information, writing abstracts; Academic structures used in scientific texts III, Identifying sources to write scientific texts.; Using databases; Academic structures used in scientific texts IV, Writing references. Common referencing styles; Academic structures used in scientific texts, Writing academic texts (technical reports, instructions, procedures, manuals); Academic structures used in scientific texts.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Theory of probabilities and mathematical statistics	TPSM	Romanian	5	2	2	-	-

Course description (Syllabus): probability, conditional probability, probabilistic schemas; random variables, mean, variance, moments; probability distributions; sampling theory; estimation theory; confidence intervals; statistical hypothesis testing.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Geography of tourism and tourism resources	GTRT	Romanian	4	2	2	-	-

Course description (Syllabus): the concepts of tourism and tourist; history of tourism; forms of tourism; costs and benefits of tourism; tourism dimensions; tourism demand and tourism offer; tourist motivation models; tourism statistics; tourism management; career opportunities in tourism; tourism in the third millennium.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Botany and plant physiology	BFP	Romanian	3	2	-	2	1

Course description (Syllabus): plant morphology, anatomy, and physiology; vital processes such as photosynthesis, respiration, and nutrition; and mechanisms of growth, development, and adaptation to the environment. The main groups of food, aromatic, and medicinal plants are analyzed, along with their relevance to the quality of plant raw materials and sustainable practices in agroecosystems.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Digitization and artificial intelligence	DIA	Romanian	5	2	-	2	-

Course description (Syllabus): data processing, automation, machine learning, intelligent systems, and digital platforms, highlighting their impact on organizational efficiency and decision-making. Students gain practical understanding of AI tools, digital workflows, and emerging technologies, while examining ethical, social, and economic implications of digital innovation. The course provides a solid foundation for applying digital and AI solutions within modern professional environments, with an emphasis on adaptability, critical thinking, and responsible use of technology.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Plant and animal farming technologies	TAVA	Romanian	4	2	-	2	-

Course description (Syllabus): essential technological solutions for plant cultivation and animal husbandry, including soil management, crop protection, breeding practices, feeding systems, housing technologies, and sustainable resource use. Emphasis is placed on innovation, efficiency, and environmental responsibility, examining how automation, monitoring tools, and biotechnology improve productivity and animal welfare.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Domain practice	PR1	Romanian	5	-	-	-	60 hours

Course description (Syllabus): offers students hands-on experience in applying fundamental concepts of rural tourism, agricultural management, and hospitality services within real-world settings. Through field activities carried out in farms, agrotourism guesthouses, and local production units, students learn to integrate agricultural practices with tourism-oriented services, develop visitor experiences, and manage daily operations specific to rural enterprises. The course emphasizes practical skills such as customer interaction, organization of farm-based activities, product promotion, and sustainable resource use.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Spanish language	LS01/LS02	Spanish I	2	1	1	-	-

Course description (Syllabus): Spanish for specific purposes; understanding and using specific commercial language; Spanish for tourism; business letters; specific grammar issues in Spanish for specific purposes.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
English language	LS01/LS02	English	2	1	1	-	-

Course description (Syllabus): travel agencies and tour operators; a career in tourism; trends in tourism; where people go; travel agents; responsible tourism, promoting a destination; hotel facilities; things to do; marketing the past; business travel; service and safety.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
German language	LS01/LS02	German	2	1	1	-	-

Course description (Syllabus): basic structures, such as presenting oneself, speaking about hobbies, about one can like or dislike; the present tense of the verbs but also the past tense for expressing events which still took place; compounding nouns and practice of phonetics for a good pronunciation (long and short vocals, diphthongs, etc.); forming simple sentences and questions respecting the word sequences; vocabulary around salutations, hobbies, daily activities, food and drinks, vehicles for travelling in town and out of it; famous touristic places in Germany such as Hamburg, Bremen, Berlin, Munich, Bavaria or Cologne; practice of listening, reading, writing and speaking skills, so that the students can express themselves in simple conversations; extended grammar terms such as the accusative, prepositions, the article and the modal verbs.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
French language	LS01/LS02	French I	2	1	1	-	-

Course description (Syllabus): The course is aimed at consolidating and improving knowledge of French grammar.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Sports	EF01/EF02	Romanian	1	1	-	-	-

Course description (Syllabus): group sports, improvement of students physical condition.

2nd Year

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Introduction to economics	BE	Romanian	5	2	2	-	-

Course description (Syllabus): fundamentals of economic activities; demand, offer, market and competition; labor market, unemployment, salaries; money market, inflation, credits and interests; capital market; fundamentals of macroeconomics; international economic relations and European Union (EU) economic integration.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Rural genius	GR	Romanian	5	2	-	1	1

Course description (Syllabus): explores the creative, innovative, and adaptive capacities that shape rural communities and their development. It examines traditional knowledge, local craftsmanship, sustainable practices, and community-based solutions that contribute to the resilience and identity of rural areas. Through case studies, field observations, and applied projects, students learn how rural ingenuity can support entrepreneurship, agrotourism, cultural preservation, and sustainable resource management.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Food microbiology	MA	Romanian	5	2	-	2	-

Course description (Syllabus): biology of bacteria, yeasts, molds, and viruses relevant to the food industry, with a focus on microbial growth, metabolism, and interactions with different food matrices. Students explore both beneficial microorganisms—used in fermentation and food production—and harmful pathogens responsible for spoilage and foodborne illnesses.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Introduction to management	BM	Romanian	5	2	2	-	-

Course description (Syllabus): elements of scientific management; politics and strategies in management; organizational structures and important documents in management; operational techniques in management; development of management.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Computer-aided graphics	GAC	Romanian	2	2	-	2	-

Course description (Syllabus): essential skills and tools needed to create, edit, and interpret digital visual materials using specialized software. It introduces fundamental concepts of graphic representation, vector and raster design, 2D and 3D modeling, and technical drawing. Students learn how to apply computer-aided design (CAD) techniques to produce accurate schematics, layouts, and visual prototypes relevant to engineering, product design, and visual communication.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Accounting	CONT	Romanian	4	2	1	-	1

Course description (Syllabus): introduces students to the fundamental principles, concepts, and methods used to record, analyze, and interpret financial transactions within an organization. It covers essential topics such as the accounting cycle, double-entry bookkeeping, financial statements, assets and liabilities management, cost classification, and budgeting. Students learn how to prepare and evaluate balance sheets, income statements, and

cash flow reports, gaining a solid understanding of how financial information supports decision-making and organizational planning.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Theory and technique of serving in public catering	TTSAP	Romanian	5	2	-	2	-

Course description (Syllabus): fundamentals of hospitality, communication, and service etiquette, along with techniques for ensuring efficiency, safety, and quality in the serving process.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Forestry and forest products	SPP	Romanian	5	2	-	2	-

Course description (Syllabus): provides students with a comprehensive introduction to forest ecosystems, sustainable forest management, and the utilization of wood and non-wood resources. It explores the structure, dynamics, and biodiversity of forests, as well as the ecological principles that guide responsible harvesting and conservation. Students learn about the classification, processing, and properties of forest products—ranging from timber and biomass to resins, fruits, and medicinal plants—and their role in various industries. Emphasis is placed on sustainability, resource efficiency, and the economic importance of forest-based value chains.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Work placement II	PR2	Romanian	4	-	-	90 hours	-

Course description (Syllabus): offers students practical, hands-on experience in the operational environment of a professional restaurant. During the placement, students engage in essential activities such as food preparation, service techniques, workflow organization, customer interaction, and application of hygiene and safety standards. They observe and participate in the daily routines of restaurant staff, gaining insight into teamwork, communication, and problem-solving in real service situations. The course emphasizes the development of professional behavior, technical serving skills, and the ability to adapt to different service styles and restaurant concepts.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Human resources management	MRU	Romanian	4	2	2	-	-

Course description (Syllabus): introduces students to the strategies, principles, and practices essential for managing people effectively within an organization. It covers key topics such as recruitment and selection, training and development, performance evaluation, motivation, compensation, and employee relations. Students explore the role of HR in supporting organizational goals, fostering a positive workplace culture, and ensuring legal and ethical compliance. Emphasis is placed on communication, leadership, decision-making, and the development of practical skills for managing diverse teams. Through case studies and applied activities, the course prepares students to understand and address real-world HR challenges in modern professional environments.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Strategic management	MS	Romanian	4	2	2	-	-

Course description (Syllabus): provides students with a comprehensive understanding of the concepts, tools, and processes used to formulate, implement, and evaluate organizational strategies. It explores key topics such as competitive analysis, vision and mission development, strategic planning, resource allocation, and performance measurement. Students learn how organizations adapt to dynamic environments, identify opportunities and threats, and leverage internal strengths to achieve long-term goals. Emphasis is placed on critical thinking, decision-making, and problem-solving, supported by case studies that illustrate real-world strategic challenges. By connecting theory

with practical application, the course equips students with the skills needed to contribute to strategic decision-making in modern organizations.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
English language	LE03/LE04	English	2	1	1	-	-

Course description (Syllabus): careers in tourism; destinations; hotel facilities; tour operators; dealing with guests; travel agencies, seeing the sights; getting around; eating out; traditions; special interest tours; the front office.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Spanish language	LE03/LE04	Spanish	2	1	1	-	-

Course description (Syllabus): Spanish for Specific Purposes; Understanding and using specific language; Spanish for tourism and food industry; commercial correspondence; Specific grammar issues in Spanish for Specific Purposes.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
German language	LE03/LE04	German	2	1	1	-	-

Course description (Syllabus): basic structures, such as presenting oneself, speaking about hobbies, about one can like or dislike; the present tense of the verbs but also the past tense for expressing events which still took place; compounding nouns and practice of phonetics for a good pronunciation (long and short vocals, diphthongs, etc.); forming simple sentences and questions respecting the word sequences; vocabulary around salutations, hobbies, daily activities, food and drinks, vehicles for travelling in town and out of it; famous touristic places in Germany such as Hamburg, Bremen, Berlin, Munich, Bavaria or Cologne; practice of listening, reading, writing and speaking skills, so that the students can express themselves in simple conversations.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
French language	LE03/LE04	French	2	1	1	-	-

Course description (Syllabus): The course is aimed at revising and then at continuing the process of consolidation and improvement of French grammar knowledge that began in the first year of study.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Sports	EF03/EF04	Romanian	1	-	1	-	-

Course description (Syllabus): group sports, improvement of students physical condition.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Tourism systems logistics	LST	Romanian	5	2	2	-	-

Course description (Syllabus): examines the structures, processes, and resources required to ensure the efficient functioning of tourism services and destinations. It covers key logistical components such as transportation networks, accommodation management, supply chain coordination, visitor flow management, and the integration of technology in tourism operations. Students learn how to analyze and optimize service delivery, improve operational efficiency, and enhance the overall tourist experience. Emphasis is placed on planning, coordination, sustainability, and problem-solving within complex tourism systems. Through case studies and applied activities, the course equips students with the skills necessary to manage logistical challenges and support the effective development of tourism enterprises and destinations.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Managerial communication	CN	Romanian	4	2	2	-	-

Course description (Syllabus): provides students with the knowledge and skills necessary to communicate effectively in organizational and leadership contexts. It covers key principles of verbal, non-verbal, and written communication, as well as strategies for delivering information clearly, facilitating meetings, negotiating, and managing conflict. Students explore the role of communication in decision-making, team coordination, and organizational culture, while also learning how to adapt their message to diverse audiences and professional situations. Emphasis is placed on clarity, persuasion, active listening, and ethical communication practices. Through practical exercises and case-based activities, the course prepares students to become confident and effective communicators in managerial and supervisory roles.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Volunteering III/IV	V	Romanian	4	2	-	-	1

Course description (Syllabus): introduces students to the principles, values, and social impact of community engagement through volunteer activities. It explores the role of volunteering in supporting non-profit organizations, local communities, and social development initiatives. Students learn about project planning, teamwork, communication, and ethical responsibility while participating in practical volunteer actions designed to address real community needs. The course emphasizes personal growth, civic responsibility, and the development of transferable skills such as leadership, collaboration, and problem-solving.

3rd Year

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Agritourism buildings	CA	Romanian	4	2	-	1	1

Course description (Syllabus): is a specialized course designed to equip students with the essential knowledge required for the planning, design, management, and sustainable conversion of farm structures for agritourism purposes. The curriculum explores key topics including the principles of adaptive reuse of traditional agricultural buildings (such as barns and stables) into functional spaces like guest accommodation, commercial kitchens, tasting rooms, and event venues. A strong emphasis is placed on sustainable building practices, energy efficiency, compliance with relevant building codes and safety regulations (including accessibility standards), and maintaining the architectural integrity of the rural landscape. Students will analyze practical case studies to understand the balance between operational functionality, visitor experience, and economic viability in developing high-quality agritourism infrastructure.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Investment management	MI	Romanian	4	1	2	-	-

Course description (Syllabus): This course provides a comprehensive framework for understanding modern investment practices, security analysis, and portfolio management. It equips students with the analytical tools needed to make informed investment decisions, manage risk, and evaluate the performance of financial assets. The curriculum blends foundational financial theory (like Modern Portfolio Theory) with practical application, preparing students for careers in asset management, financial analysis, and wealth advisory.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Community tourism policies	PTC	Romanian	4	2	1	-	2

Course description (Syllabus): This course provides an in-depth analysis of the theoretical frameworks, governance structures, and practical tools used to develop and implement Community Tourism Policies. The central theme is empowering local residents to participate in and benefit equitably from tourism development, while ensuring the preservation of local cultural heritage and natural resources. Students will critically evaluate different planning approaches, stakeholder engagement strategies, and policy instruments (regulatory, economic, and voluntary) essential for achieving sustainable and inclusive tourism at the destination level.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Human resources management	MRU	Romanian	4	2	2	-	-

Course description (Syllabus): Human resources management – basic principles; Organisational structures design; Leadership in organisations; Motivation theory; Payment systems; Strategic human resources management; Industrial relationship management; Stress management; Communication management; Economical appraisal of the human resources performances.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Law (Introduction to law)	DR	Romanian	4	2	2	-	-

Course description (Syllabus): features of general law; sources of commercial; acts of trade, commercial law topics; commercial companies; offenses under special laws governing the trade; auxiliaries trade; competition in business; trade obligations; special commercial contracts; credit titles.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
EU Institutions, mechanisms and terminologies	IMTC	Romanian	3	2	1	-	-

Course description (Syllabus): This course provides an in-depth exploration of the European Union (EU), focusing on its institutions, decision-making processes, and key terminologies. Students will gain a comprehensive understanding of the structure and functions of EU bodies such as the European Parliament, the European Commission, and the Council of the EU. The course will cover the mechanisms through which EU policies are formulated, negotiated, and implemented, with particular emphasis on their impact on public food service management and agrotourism industries. Key topics include the internal market, agricultural policies, sustainable development, and regional cooperation. Students will also explore the legal and economic frameworks that guide EU operations, while becoming familiar with the terminology essential for navigating EU documents and communication. This course is tailored for students in Public Food Services and Agrotourism Management, preparing them to analyze EU regulations and their relevance to the sector.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Investment management	MI	Romanian	4	2	1	-	-

Course description (Syllabus): The discipline ensures the information and training of the students in the complex issue of the decision-making mechanisms in the sphere of economic activities management. The discipline presents the process of technical and economic substantiation of the decision to invest, together with the presentation of the main types of strategic approaches regarding the financial management of the company.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Gastronomic engineering	IG	Romanian	3	2	-	2	-

Course description (Syllabus): definition of gastronomic engineering; the conceptual bases of gastronomic engineering; evolution of gastronomic techniques; elements of operational management; culinary production.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Installations and equipment for hotels and restaurants	IEHR	Romanian	4	2	-	2	-

Course description (Syllabus): This course is designed to provide students with the essential knowledge and practical skills needed to manage and optimize the installations and equipment used in the hospitality industry, particularly in hotels and restaurants. It covers a wide range of topics, including the selection, installation, and maintenance of key systems such as kitchen appliances, refrigeration units, heating, ventilation, and air conditioning (HVAC), as well as lighting and safety systems. Students will explore the principles of energy efficiency, sustainability, and ergonomics in designing and operating these installations. The course also addresses regulatory standards, safety protocols, and technological advancements in hospitality equipment, ensuring that students are equipped to make informed decisions about purchasing, maintaining, and upgrading hotel and restaurant facilities. Through case studies and practical exercises, students will gain a thorough understanding of how these installations contribute to the overall guest experience and operational efficiency.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Quality management	MC	Romanian	4	2	2	-	-

Course description (Syllabus): This course introduces students to the fundamental principles, methods, and tools of quality management, with a focus on their application in the hospitality, food service, and agrotourism sectors. Students will explore key concepts such as quality planning, quality assurance, quality control, and continuous improvement, while examining internationally recognized standards and frameworks, including ISO certifications and HACCP systems. The course emphasizes the role of quality in enhancing customer satisfaction, optimizing operational processes, and ensuring safety and sustainability. Through practical examples, case studies, and analytical exercises, students will learn how to design and implement effective quality management systems, evaluate performance indicators, and apply problem-solving techniques to improve service delivery. This discipline prepares future professionals to maintain high-quality standards and drive organizational excellence in dynamic and competitive environments.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Production management	MP	Romanian	4	2	2	-	-

Course description (Syllabus): This course offers a comprehensive introduction to the principles and practices of production management, with a focus on their application in the food service, hospitality, and agrotourism industries. Students will examine the strategies and techniques used to plan, organize, and control production processes, including capacity planning, workflow design, inventory management, scheduling, and resource optimization. The course also explores modern approaches such as lean production, just-in-time systems, and sustainable production methods. Emphasis is placed on ensuring efficiency, cost-effectiveness, and consistent product quality while meeting customer demands. Through case studies, practical assignments, and analytical tools, students will learn how to evaluate production systems, identify operational challenges, and implement improvements. This course equips future professionals with the skills needed to manage production activities effectively in dynamic and competitive organizational environments.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Food hygiene	PMT	Romanian	4	2	1	-	-

Course description (Syllabus): fundamental knowledge and practical competencies in food safety, contamination control, sanitation standards, and the application of hygienic principles throughout food production and service systems.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Consumer behavior and protection	CPC	Romanian	3	1	-	2	-

Course description (Syllabus): introduces students to the psychological, social, and economic factors influencing consumer decision-making, while providing essential knowledge on consumer rights, market regulations, and strategies for ensuring fair and ethical practices in the public food service and agrotourism sectors.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Advanced IT systems for agritourism farm management	SIAMFA	Romanian	4	2	-	2	-

Course description (Syllabus): equips students with advanced digital tools and technologies for optimizing farm operations, resource planning, data analysis, and customer management within modern agritourism enterprises.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Information systems applied in management	SIM	Romanian	4	2	-	2	-

Course description (Syllabus): provides students with an understanding of how digital systems, data processing, and information technologies support decision-making, coordination, and strategic planning within modern organizational management.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Exploiting traditional resources in agritourism	VRTR	Romanian	4	2	2	-	-

Course description (Syllabus): explores methods for valuing, preserving, and sustainably utilizing local cultural, natural, and gastronomic resources to enhance agritourism experiences and support rural development.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Legislation in agritourism	LA	Romanian	4	2	2	-	-

Course description (Syllabus): essential knowledge of the legal framework regulating agritourism activities, including land use, food safety, environmental protection, business licensing, and consumer rights.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Recreational equipment and facilities	EIA	Romanian	5	2	-	2	-

Course description (Syllabus): offers students an understanding of the design, selection, operation, and maintenance of recreational infrastructure and equipment used in tourism and leisure environments, with a focus on safety, functionality, and visitor experience.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Cooking techniques	TC	Romanian	5	2	-	2	-

Course description (Syllabus): The course *Cooking Techniques* introduces students to fundamental and advanced culinary methods, focusing on ingredient preparation, heat applications, flavor development, and the safe, efficient execution of professional cooking practices.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Project management in public catering and agritourism	MPAPA	Romanian	4	2	-	-	2

Course description (Syllabus): The course *Project Management in Public Catering and Agritourism* provides students with comprehensive knowledge and practical skills in planning, organizing, budgeting, coordinating, and evaluating projects specific to food service operations and agritourism enterprises, emphasizing resource management, quality assurance, sustainability, and stakeholder communication.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Agritourism economy	EA	Romanian	4	2	-	-	2

Course description (Syllabus): examines the economic principles, financial mechanisms, market dynamics, and development strategies that shape agritourism enterprises, focusing on profitability, rural sustainability, resource management, and value creation within agricultural tourism activities.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Work placement III	PR3	Romanian	-	-	-	-	90 hours

Course description (Syllabus): offers students practical, hands-on experience in hotel operations, allowing them to apply professional skills in areas such as reception, housekeeping, food service, customer relations, and operational management within a real hospitality environment.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Public services and utilities	SUP	Romanian	4	2	2	-	-

Course description (Syllabus): provides students with an understanding of the structure, management, and functioning of essential community services—such as water supply, energy, waste management, transportation, and public administration—and their role in supporting sustainable development and quality of life.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Volunteering V/VI	V	Romanian	4	-	-	-	3

Course description (Syllabus): introduces students to the principles, values, and practices of community engagement, emphasizing social responsibility, project involvement, teamwork, and the development of personal and professional skills through participation in volunteer activities.

4th Year

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Equipment for agritourism farms	EFA	Romanian	5	-	-	2	2

Course description (Syllabus): provides students with knowledge of the selection, operation, maintenance, and integration of agricultural, processing, and hospitality equipment essential for efficient, safe, and sustainable management of modern agritourism enterprises.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Rural development	DR	Romanian	4	2	1	-	1

Course description (Syllabus): The course *Rural Development* explores the economic, social, environmental, and policy factors that shape rural communities, focusing on strategies for sustainable growth, resource management, infrastructure improvement, and enhancing the quality of life in rural areas.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Wine engineering	IV	Romanian	5	2	-	2	-

Course description (Syllabus): offers an in-depth understanding of the technological, biochemical, and managerial processes involved in modern wine production, covering grape processing, fermentation control, stabilization and aging techniques, quality assessment, equipment operation, and the integration of innovative and sustainable practices within the winery workflow.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Management in public catering and agritourism	MAPA	Romanian	4	1	2	-	-

Course description (Syllabus): The course covers public catering management, agritourism management, hospitality operations, food service systems, customer experience, resource planning, quality assurance, marketing strategies, sustainable practices, service design, operational efficiency, human resource management, tourism services, rural development, and business planning.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Human nutrition	NU	Romanian	4	2	-	2	-

Course description (Syllabus): The course *Human Nutrition* examines the principles of nutrient functions, dietary needs, metabolism, and the relationship between nutrition, health, and disease, providing students with foundational knowledge for evaluating and promoting balanced, evidence-based dietary practices.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Bread and bakery products engineering	IPPP	Romanian	4	2	-	-	2

Course description (Syllabus): provides students with knowledge of the technological processes, ingredient functionality, equipment, quality control, and innovation involved in producing bread and diverse bakery products.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Economic and financial analysis	AEF	Romanian	4	2	2	-	-

Course description (Syllabus): provides students with the tools and methods needed to evaluate economic performance, interpret financial statements, assess costs and profitability, and support informed managerial decision-making.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Psychology and behavior studies	PSC	Romanian	4	2	2	-	-

Course description (Syllabus): Tourists behavior profiles, tourist market segmentation techniques and variables, tourists personality traits, tourism employees profiles, generational profiles in tourism and hospitality, the generational gap in tourism and hospitality.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Rural economy	ER	Romanian	4	2	2	-	-

Course description (Syllabus): provides students with tools for evaluating economic performance, financial indicators, cost structures, investment decisions, and the overall financial health of businesses.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Marketing in public catering and agritourism	MAPA	Romanian	5	2	2	-	-

Course description (Syllabus): focuses on market research, consumer behavior, branding, promotion, and service design strategies aimed at enhancing visibility, competitiveness, and customer satisfaction in food service and agritourism enterprises.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Innovative techniques for optimizing processes in the tourism industry	TIOPI	Romanian	4	2	2	-	-

Course description (Syllabus): The course aims to familiarize students with the techniques that optimize tourism processes with direct impact on improving the quality of tourism services.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Beer engineering	IB	Romanian	5	2	-	2	-

Course description (Syllabus): This course provides a comprehensive overview of the engineering principles, technological processes, and management considerations involved in the production of beer. Students will learn the science behind brewing, from raw material selection and processing to fermentation, filtration, and quality control. A strong emphasis will be placed on process optimization, equipment design, and sustainability within the context of both industrial and craft brewing. Furthermore, the course will connect brewing technology to the agritourism and food service sectors, preparing students to manage microbreweries, integrate brewing experiences into tourism, and ensure high-quality product delivery in public food service.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Catering techniques	TC	Romanian	4	1	-	2	-

Course description (Syllabus): This course is designed to provide students with the practical skills, operational knowledge, and managerial strategies essential for planning, organizing, and executing successful catering operations. It covers the entire catering process, from initial client consultation and menu development to logistics, presentation, service, and post-event analysis. Special attention is given to the unique demands of various event types (corporate,

weddings, conferences, agritourism events) and the integration of engineering and management principles to ensure efficient, profitable, and high-quality service in the public food sector.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
BSc Project Thesis preparation	PR4	Romanian	4	-	-	-	60 hours

Course description (Syllabus): This mandatory preparatory course guides final-year students through the entire process of planning, researching, writing, and presenting their Bachelor of Science (BSc) Thesis. The course focuses on transforming an initial idea into a structured, academically rigorous final document relevant to the field of Public Food Service and Agritourism. Key emphasis is placed on defining clear research objectives, selecting appropriate methodologies (technical, managerial, or analytical), conducting critical literature reviews, adhering to academic writing standards, and preparing effectively for the final thesis defense. The goal is to equip students with the necessary skills to produce an original and high-quality scientific contribution.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Modeling and simulation of tourism activity	MSAT	Romanian	4	2	-	2	-

Course description (Syllabus): This course introduces students to the principles and techniques of building and utilizing mathematical, statistical, and computational models to understand, analyze, and forecast various aspects of the tourism sector. Students will learn how to quantify tourist behavior, simulate demand fluctuations, optimize resource allocation (e.g., accommodation, staff), and evaluate the economic and environmental impacts of tourism policies. A strong focus will be placed on applying these models to the specific challenges and opportunities within the Agritourism and Public Food Service context, enabling data-driven decision-making for sustainable management and engineering solutions.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Psychology and behavioral studies	PSC	Romanian	5	2	1	-	1

Course description (Syllabus): This course introduces students to the fundamental principles of psychology and human behavior, with a specific focus on their applications within the service industry, management, and consumer decision-making in the context of Public Food Service and Agritourism. Students will explore how individual and group behaviors are influenced by cognitive, emotional, and social factors. The curriculum emphasizes understanding consumer motivation, perception, learning, and attitude formation to effectively design service experiences, manage teams, and optimize marketing strategies. The goal is to provide managerial engineers with the soft skills and analytical frameworks needed to understand and proactively influence stakeholder behavior.

Course title	Code	Language of instruction	No. of credits	Number of hours per week			
				course	seminar	laboratory	project
Volunteering	V	Romanian	3	-	-	-	3

Course description (Syllabus): This interdisciplinary course examines the theoretical and practical dimensions of volunteerism, focusing on its role in social responsibility, non-profit sector management, and community development within the hospitality and rural development context. Students will analyze the psychology and motivation behind volunteering, learn best practices for managing and retaining volunteers, and evaluate the measurable impact of volunteer projects on organizations, communities, and agritourism initiatives. A significant practical component requires students to engage in structured volunteer work to apply theoretical concepts and develop essential soft skills like teamwork and leadership.