

Undergraduate courses list

School of Engineering and Technologies

Course Key	Course Name	Department	Course Objective	Credit	Observations	Type
IF-BO7	Ecological research methods	Ecology	An introduction to systematic methods of collection, analysis and reporting of field and laboratory ecological data, and basic experimental design in ecology.	5		Inclusive
IF-B13	Ecology	Ecology	A survey of adaptations to the physical environment, dynamics of natural populations, interactions between species, and ecosystem function	4		Inclusive
ATMF - BO2	<ol style="list-style-type: none"> 1. Water basins of Azerbaijan 2. Water pollution and control 3. Sanitary hydrobiology 	Ecology	The course is to develop comprehensive understanding on productive water uses involving consumptive and non- consumptive uses, their livelihood linkages and economic implications and ways and means of enhancing the efficiency and productivity of water use.	6	Curricular course that includes a module on sustainability	Inclusive
IF-B13	Human ecology and sustainable development	Ecology	<p>This course has two primary objectives: first, to provide a structured way to think about—and conduct research in—the field of sustainable development.</p> <p>Second, to introduce formal models of dynamic, coupled human and environmental systems.</p>	6	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive

ATMF - BO8	Global environmental problems	Ecology	Environmental issues, such as climate change, biodiversity loss and energy consumption and our responses to them are of global concern. In this level 1 course we will explore the most significant and topical global environmental issues affecting societies, ecosystems and the physical milieu. The course will examine socio-economic and political factors in addition to the science behind many of the issues.	6		Inclusive
IF-B15	Ecology Law	Ecology	The objective of the course is to provide a basic level understanding of the legislative framework of environmental regulation, its implementation and adjudication.	4		Inclusive
IF-B22	Sustainable management of natural resources	Ecology	The objectives of natural resource management are as follows: To maintain ecological diversity. To provide resources for future generations. To maintain employment facilities for people.	4	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
ATMF - BO6	Environmental safety of alternative energy sources	Ecology	Environmental safety, just like any other form of safety or compliance, requires being observant and compliant at all times to ensure the safety of your workers and anyone that resides in the area. To facilitate the students to achieve a clear conceptual understanding of technical and commercial aspects of Wind and Alternative Sources of Energy.	5	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
IF-BO7	Meteorology and climatology	Forestry	The main purpose of the course is to use the knowledge acquired by students during the lectures in solving practical problems independently	4	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive

IF-B11	Soil science	Forestry	The main purpose of this course is to address the following issues: to expand the scope of knowledge of students and specialists in the natural sciences by acquainting them with the most modern methods necessary to control the condition of the soil and the environment;	4	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
IF-BO1	Chemistry	Forestry	To teach the basics of chemistry and to form an understanding of their application in life.	4	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
ÜFS-B04	Sociology	Forestry	One of the main leading groups of the young generation to acquaint students with the subject of sociology	3	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
ÜFS-B04	Basics of entrepreneurship and introduction to business	Forestry	At the end of the course, students are expected to be able to: <ol style="list-style-type: none"> 1. Understand the nature of entrepreneurship and the entrepreneurial process 2. Learn how to identify and develop ideas into business as well as solve major entrepreneurial issues 3. Recognize and evaluate business opportunities under dynamic economic settings 4. Gain firsthand experience of starting a new venture by developing a business plan 	3	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Inclusive

ATMF-BO1	Plant and animal ecology	Forestry	The main purpose of the subject is to study the subject of plant and animal ecology in depth, to study the lifestyle features of vertebrates. 2. How anthropogenic activity affects plants and animals. 3. To study in depth the ecology of vertebrates and ecological features of flora	5	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused
ATMF-BO1	Flora and fauna of Azerbaijan	Forestry	The main purpose of the subject is to study the subject of flora and fauna of Azerbaijan and world as well in depth, to study the lifestyle features of vertebrates. 2. How anthropogenic activity affects plants and animals.	5	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused
ATMF-BO1	Ecological monitoring	Forestry	.To explain the goals and objectives, functions, research methods of the subject "Environmental monitoring" 2.To know the main pollutants of the environment, ways to prevent activities that can cause environmental pollution 3.Environmental safety, study of ways to ensure safety	5	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused
IPF-BO6	Systematics of advanced plants	Forestry	The purpose of the course of systematics of higher plants is to acquaint students with the characteristics of plant structure and life, their biological diversity, as well as the principles of classification of the most important plant groups. 2.To identify plants by season, genus and species, using special reference books as a result of the knowledge gained in the taught laboratory classes	4	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive

IF-B10	Dendrology	Forestry	The main purpose of the course is to recognize trees and shrubs, to study the origin and evolution, the main features of the historical development path, to learn about the protection of rare plants, their current condition, the reasons for their decline	8	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
IF-B13	Forestry	Forestry	The main purpose of the course is to provide students with knowledge about forestry and forest plants by providing extensive information about forestry. In the prevention of deforestation. Establishment of forest plantations is the most reliable tool in overcoming the depletion of forest resources, restoration and development of forests.	5	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused
IF-B13	World forests: distribution and composition 3	Forestry	The main purpose of the course is to provide students with knowledge about forestry and forest plants by providing extensive information about forestry. In the prevention of deforestation. Establishment of forest plantations is the most reliable tool in overcoming the depletion of forest resources, restoration and development of forests.	5	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused
IF-B13	Forest ecosystems	Forestry	The main purpose of the course is to provide students with knowledge about forestry and forest plants by providing extensive information about forestry. In the prevention of deforestation. Establishment of forest plantations is the most reliable tool in overcoming the depletion of forest resources, restoration and development of forests.	5	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused

ATMF -BO3	Ecological benefits of forests	Forestry	The aim of the study is to ensure that students be familiar with the forest conservation and provide the information about the nature and the need for biodiversity action. The study emphasizes on the relationship between educational tourism and forest conservation	5	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused
ATMF -BO3	Use of forest Eco resources	Forestry	The aim of the study is to ensure that students be familiar with the forest conservation and provide the information about the nature and the need for biodiversity action. The study emphasizes on the relationship between educational tourism and forest conservation	5	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused
ATMF -BO3	Organization of forest tourism	Forestry	The aim of the study is to ensure that students be familiar with the forest conservation and provide the information about the nature and the need for biodiversity action. The study emphasizes on the relationship between educational tourism and forest conservation	5	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused
IF-BO5	Geodesy	Forestry	The main purpose of the course is modern in the field of geodesy formation of specific knowledge about approaches and generally integrated with both of the issues raised based on methods, but also from modern software serves to solve using	5	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive

IF-BO9	Forest genetics and selection	Forestry	The course provides in-depth knowledge of quantitative genetics and forestry and increased understanding of how to gather qualitative and quantitative data on growth characteristics of forest trees and link such knowledge to efficient modern forestry	4	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
IF-B17	Forest plantations	Forestry	The objective of the course is to Identify the tree species and the uses of NTFP. Gain knowledge about the choice of tree species for agro forestry purpose. Estimate the quantity of timber / firewood/NTFP(volume/weight) and other forest resources by using height and volume measuring equipments. Manage the forest nursery by applying nursery techniques. Apply the required cultivation practices for different tree species.	8	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
UFS-B05	Information technologies in agrarian field	Forestry	Program aims to educate students in the scientific habit of thought and entrepreneurial skills and prepare them to become globally competitive professionals with entry-level competencies in technical agriculture. It emphasizes the processes and techniques of identifying, diagnosing and analyzing problems and in designing, packaging and applying technologies needed in the development and conservation of the agriculture and food system resources	3	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused
ATMF-BO4	Greenery and park economy	Forestry	Program aims to educate students greenery for students Basic principles of landscaping 3.Types of greenery Geotechnics Plants used in greenery Their reproduction Training on national parks and ways to protect them.	5	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused

IF-B19	Forest machines and tractors	Forestry	This course aims to present the general aspects of operation and maintenance of the agricultural equipment used within a hire service business. It introduces the concepts of proper operation, maintenance and repair service provision of machineries, equipment and tools	4	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
IF-B22	Logistics and forest commodity	Forestry	Reliable and affordable supplies of commodities are critical for the success of any particular organization a sit affects the quality of the services, their availability and also influences the cost of production	4	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
IF-B24	Forest reclamation and protective lighting	Forestry	Understanding and resolving complex issues at various scales and situations in an urban or rural fabric of residential / commercial/ institutional/ recreational/industrial land use.	4	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
IF-B25	Ornamental gardening	Forestry	To teach students ornamental plants in people's lives, in landscaping, 2. The importance of ornamental gardening, 3. Plants to be used in ornamental gardening, 4. their geotechnics, 5. Reproduction features, 6. It consists of teaching botanical gardens and ways to protect them	4	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive

IF-B16	Forest taxation	Forestry	1. Accounting and assessment of wood and non-wood resources of forests. 2. Determining the annual growth of forests by size and resources. 3. Determination of material and commodity structures of forest firewood stocks. It consists of teaching the general rules of direction.	8	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
IF-B18	General agriculture	Forestry		4	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
IF-B23	Studying the structure and productivity of forests	Forestry	Assimilation of methods, techniques and patterns of increasing forest productivity to students. At the same time, to provide students with all the practical knowledge that can be done to increase the productivity of forests	8	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
IF-BO2	Tourism geography	Tourism and Hotel Management	Gaining awareness, mastering methods of analysis, critical thinking, communication abilities with regard to the dynamics and impacts of economic and political activities on Earth by adopting a diachronic and sustainable approach. - gaining knowledge of the world regions geo-tourist characteristics and problems - opening and training to the tourist project making and communication abilities of destinations and itinerary by adopting an appropriate geographical lexicon.	5	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive

ATMF -BO1	1.Economy of Tourism 2. Economy of tourism enterprises 3.Tourism and regional economy	Tourism and Hotel Management	Student will get familiar with the key concepts in tourism and the specific functioning of the tourism market. The emphasis lies on studying the economic functioning of tourism within the national economic system, and on determining its contribution to the national economy.	5	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused
İF-BO8	Macroeconomics	Tourism and Hotel Management	Fundamental economic ideas and the operation of the economy on a national scale. Production, distribution and consumption of goods and services, the exchange process, the role of government, the national income and its distribution, GDP, consumption function, savings function, investment spending, the multiplier principle and the influence of government spending on income and output.	5	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
ATMF-BO5	1.Problems of Tourism Development in Azerbaijan 2.Tourism development model 3.Methods of forecasting the development of Tourism	Tourism and Hotel Management	This course is designed to enable the students review, analyzed, and application of concepts, strategies, techniques, and approaches associated with destination tourism planning and development and management. Emphasis is on integrated and sustainable tourism planning and development models at global, national, regional, and local community levels.	6	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused
ATMF-BO6	1.Marketing in hospitality industry 2.Investment in tourism 3. Recreation and health	Tourism and Hotel Management	Students develop actual marketing campaign for business within hospitality industry. Emphasis on (a) analysis of market, competition and product, (b) planning financial budget and (c) developing short term and long-range strategies to achieve desired profit through effective advertising, sales and public relations plan.	6	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused

IF-B11	Transport in tourism	Tourism and Hotel Management	This course discusses the general knowledge of transportation, its role in tourism, planning, and policies. The content includes transportation systems, various aspects of tourism-related forms of transportation, modes of transportation, transportation operation including concepts and methods of analysis, infrastructure, and geographical and legal factors relating to local and international transportation.	5	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
IF-B12	Tourism product development	Tourism and Hotel Management	Students will learn about the development of tourism product with understanding of contemporary issues of product development in the tourism business. Students are expected to create innovative ideas on designing tourism products and the quality development of tourism products / services	5	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
IF-B17	Hospitality Management	Tourism and Hotel Management	Hospitality Management courses educate the candidates about the various management principles that are related to tourism and hotel management. The Hospitality Management subjects of the courses are curated in such a way that it allows the aspirants to understand the administrative, operational and the commercial operation of the various hotels, Bars, amusement parks, resorts and many more.	5	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
ATMF-BO7	1. Tourism Management 2. Restaurant management 3. Hotel management	Tourism and Hotel Management	This course provides an introduction to the study of tourism; basic conceptions, definitions, features of tourism and theories are introduced. In this course tourism is examined from the perspectives of a phenomenon, an industry and a field of research	5	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused

ATMF -BO8	1.Technology of hotel activity 2.Organization of sourcing 3. Catering services	Tourism and Hotel Management	Focus is on getting the most efficient and effective outcomes from interconnected multiple systems at a single location, the ease of movement between component parts, and the development and ongoing maintenance of the hotel's website.	5	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused
ATMF- BO9 1	1. . Problems of Rural Tourism Development 2. Rural tourism in the Karabakh region	Tourism and Hotel Management	Factors that determine successful rural tourism development and management of sites in an environmentally and culturally sensitive area	5	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused
IF-B13	Tourism policy planning	Tourism and Hotel Management	The aim of this course is to develop an understanding of the basic concepts of tourism planning for public and private sector community and regional tourism development, with an emphasis on ecotourism and nature-based tourism. It is to explore the interrelationships between resource management and tourism planning and development.	5	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
IF-B15	Human Resources Management	Tourism and Hotel Management	<p>These broad intentions can be defined more precisely through an examination of the course's specific objectives. By the end of the course the student will be able to:</p> <ol style="list-style-type: none"> 1. Appreciate the importance of human resource management as a field of study and as a central management function; 2. Understand the implications for human resource management of the behavioral sciences, government regulations, and court decisions; 3. Know the elements of the HR function (e.g. – recruitment, selection, training and development, etc.) and be familiar with each element's key concepts & terminology; and 4. Apply the principles and techniques of human resource management gained through this course to the discussion of major personnel issues and the solution of typical case problems. 	4	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive

ATMF –B11	1. Ecological tourism 2. World landscapes and natural monuments	Tourism and Hotel Management	Geologic processes that shape the Earth's landscapes and interior through the study of National Parks, Monuments, and Seashores. Plate tectonics, climate and biotic change, natural hazards and resources, and environmental conservation.	4	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused
IF-B14	Sustainable tourism	Tourism and Hotel Management	The course is intended as an introduction to the concept of sustainability and sustainable development in the field of tourism. The analysis will cover the principles of sustainable tourism and its practical application from the point of view of the tourism destinations and tourism businesses as well. One of the basic goals will be to better know the theoretical and practical aspects of environmental management in the tourism s	4	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
IF-B20	Introduction to Social Research	Tourism and Hotel Management	This course is dedicated to understanding how sociologists, anthropologists, political scientists, and scholars in related disciplines analyses, interpret, and make sense of the social world. We will begin with broad questions about knowledge production that undergird our approach to any sociological (or related) inquiry	4	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
ATMF –B12	Food tourism development themes	Tourism and Hotel Management	The aim of this course is to lay out the concept of gastronomy and the basics of gastronomy tourism as well as explaining how it is actually applied in terms of management, application and marketing.	6	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused

ÜFS-B05	Fundamentals of entrepreneurship and introduction to business	Tourism and Hotel Management	This course intends to provide students with the essential concepts, principles and skills of entrepreneurship so that students are able to apply them while launching and operating an entrepreneurial venture.	3	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused
İF-BO1	Mathematics and biostatistics for biological sciences	Biology	The discipline of biostatistics applies statistical theory and methodology to the biological sciences. Based in the mathematical sciences, biostatistics is concerned with developing an empirical basis for understanding biological mechanisms and for medical and health policy	5	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
İF-BO3	Chemistry	Biology	To teach the basics of chemistry and to form an understanding of their application in life. One of the goals of the course is to create conditions for students to increase their knowledge of chemistry, critical thinking and problem-solving skills by working with examples and examples. One of the goals of the course is to provide students with experience with concepts used in science, such as observation, logic, analysis, objectivity, accuracy, and fluent communication.	5	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
İF-BO6	Morphology and anatomy of plants	Biology	<ul style="list-style-type: none"> To provide students with skills necessary to section and stain fresh plant material in preparation for study of plant anatomy. <ul style="list-style-type: none"> To train students in the proper use of the compound light microscope and to give them experience in interpreting images that they see through the microscope in terms of how plant structure is related to function. To provide students with skills in modern microscopic digital image capture, processing and analysis techniques useful in plant anatomical studies. To instill in students an appreciation for the complexity of tissue organization that exists within plant bodies that allow plants to develop and live as integrated organisms in diverse environments. 	5	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive

IF-BO5	Individual development and evolution	Biology	By fully engaging with the material and class assignments, at the end of the semester you will be able to: • Explain how an interdisciplinary approach involving genetics, development, evolutionary biology, and ecology can be used to understand the processes that generate patterns of biodiversity. • List and describe major questions, findings, and experimental approaches in the field of ecological and evolutionary developmental biology. • Discuss biological research using specialized terminology and defend your opinions. • Critically evaluate and interpret the primary scientific literature. • Combine factual material with deductive reasoning to propose hypotheses and future research directions	5	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
IF-BO7	Primary plants and fungi	Biology	To determine the osmotic concentration of plant cell sap by plasmolytic method using leaves of Tradeseantia/ Rhoeo, 2- To measure the rate of transpiration per unit leaf area by photometer, 3- To compare the differential rate of transpiration of the sides of a leaf by cobalt chloride method, 4- To study the structure of stomata and the stomatal movement due to osmotic changes,	5	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
IF-BO9	Invertebrate animals	Biology	At the completion of the course the student should be able to: 1. recognize common local species 2. identify common and unknown species 3. have an understanding of the ecological relationships of the local species 4. be able to collect and properly preserve organisms 5. be competent in the use of microscopes for dissection and identification	5	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
ATMF -BO4 1.	1.Geobotany 2. Hydrobiology 3. Hydrochemistry	Biology	The main aim is the introduction of basic skills and field methods used in vegetation ecology (recording phytosociological relives, measuring and estimation of basic stand parameters, soil sampling and chemical analysis, microclimatic measurements, manipulative experiment, vegetation mapping). At the end of the course, students will be familiar with the most commonly used methods of field survey in vegetation ecology and should be able to apply individually at least some of them.	6	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused

IF-B08	Plants	Biology		5	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
IF-B10	Vertebrate animals	Biology		5	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
IF-B12	Biochemistry	Biology		5	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
IF-B16	Hydrobiology	Biology		7	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive

ÜFS-B05 1.	1. Application of information technologies in biology	Biology	The course will be delivered through activity-led and problem-based learning in the context of current biological research studies. Students will work with distributed databases used for biological and biophysical research, conduct semantic search, make a representative INFORMATION TECHNOLOGY IN BIOLOGY. Syllabus 2 visualization of the search results, etc. During the course training, students will also learn invariant tools that can be used to generate a query in any database.	3	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused
İF-B14	Microbiology 5	Biology		5	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
İF-B15	Plant physiology	Biology		5	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
İF-B17	Enzymology	Biology		5	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive

ATMF-BO2	Neurobiology	Biology	The main purpose of the subject is to organize the teaching and mastering of all the important features of the subject "Neurobiology", one of the main medical and biological disciplines. 2. Man is the highest of all living beings and is a social being. The organization of normal human activity is its full normal development and the implementation of systematic inter-organ regularities in accordance with existing standards. Students majoring in social work will be able to approach their future work more professionally when they master this subject.	6	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused
ATMF -BO3	1. Azerbaijani medicinal plants 2. Flora and fauna of Azerbaijan 3. Industrially important plants	Biology		4	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused
ATMF -BO5 1.	1. Biochemistry of hormones 2. . Functional biochemistry 3. Endocrinology	Biology	After successful completion of this course the student is able to 1) explain the concepts related to intercellular communication and the maintenance of homeostasis, 2) define the metabolic role of individual tissues and hormones in physiological and / or pathological processes in the body, 3) describe the structure of certain hormones and processes by which they synthesize and secrete, 4) explain the mechanism of action of certain hormones, 5) analyze the connection between catabolic and anabolic processes, 6) explain the regulation of metabolic pathways, 7) applies the standard experimental methods used in the study of metabolism	5	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused
İF-B13	Biodiversity	Biology		5	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive

IF-B18	Immunology	Biology		5	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
IF-B19	Molecular biology	Biology		5	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
ATMF -BO6 1.	Microbiology of food products 2. Industrial microbiology 3. Food safety	Biology		4	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused
ATMF -BO8	1. Applied genetics 2. Ecological genetics 3. Medical Biology	Biology		5	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused

IF-B20	Bioinformatics	Biology		5	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
IF-B21	Biotechnology	Biology		5	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
IF-B13	Ecology	Water Bioresources and Aquatic Plants		4	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
IF-BO7	Introduction to the specialty and history of development of the specialty	Water Bioresources and Aquatic Plants		3	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive

İF-B12	Zoology	Water Bioresources and Aquatic Plants		6	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
ÜFS-B04	Basics of entrepreneurship and introduction to business	Water Bioresources and Aquatic Plants		3	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused
ÜFS-B05 1.	Information technologies in the agrarian field (by specialty) 2. Information management in agriculture (by specialty)	Water Bioresources and Aquatic Plants		3	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused
ATMF -BO2 1.	Water basins of Azerbaijan 2. Water pollution and control 3. Sanitary hydrobiology	Water Bioresources and Aquatic Plants		6	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused

IF-B10	Physiology of aquatic plants	Water Bioresources and Aquatic Plants		5	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
IF-B16	Planktonology	Water Bioresources and Aquatic Plants		5	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
ATMF -BO3 1.	1. Water toxicology 2. Hydrochemistry	Water Bioresources and Aquatic Plants		6	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused
ATMF -BO4 1.	1. Ecological law 2. Legislation of fisheries 3. Ecological standardization, monitoring, examination and audit of water basins	Water Bioresources and Aquatic Plants		6	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused

ATMF -BO5	1.Methods of calculation of bioresources 2. Methods for calculating damage to water bodies 3. Rational use of nature	Water Bioresources and Aquatic Plants		4	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused
IF-BO6	Microbiology	Water Bioresources and Aquatic Plants		5	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
IF-BO8	Meteorology and climatology	Water Bioresources and Aquatic Plants		5	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
IF-B1	Aquaculture of aquatic plants	Water Bioresources and Aquatic Plants		5	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive

IF-B19	Methods of monitoring and research in aquaculture	Water Bioresources and Aquatic Plants		7	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
ATMF -BO6	1. Anatomy and physiology of fish 2. Fish membrinology 3. Taxonomy and ecology of fish	Water Bioresources and Aquatic Plants		4	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused
ATMF -BO7	1. Fish histology 2. Fish cytology 3. Fish embryology	Water Bioresources and Aquatic Plants		4	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused

School of Business

Course Key	Course Name	Department	Course Objective	Credit	Observations	Type
AD3253	Environmental economics	Economics	The course will demonstrate that environmental problems are economic problems and examine the past, present and future visions of resource use, production and	6	Subject of compulsory studies, which addresses a	Inclusive

			sustainability.		unit of environmental and sustainability themes.	
AD1200	Organizational behavior	Business	To analyze and compare different models used to explain individual behaviour related to motivation and rewards. to identify the processes used in developing communication and resolving conflicts. to explain group dynamics and demonstrate skills required for working in groups (team building)	4		Focused
AD1201	Sustainability and Social Responsibility	Business	Students should be able to identify and apply current knowledge of disciplinary and inter-disciplinary theory on social impact and professional	6	Relationship between socio- economic, political and cultural subjects and scientific knowledge	Inclusive
IF-B14	Sustainable tourism	Merchandising and Expertise	Upon completion of the course, the student will be able to recognize tourism as a social phenomenon, with environmental, sociocultural, political and economic implications, identifying the most important elements that stimulate its development, trends and evolution to establish the foundations of their profession.	4	The course includes the theme of tourism	Inclusive
ATMF-BO10	Sustainable development	Business	The aim of sustainable development course is to balance our economic, environmental and social needs, allowing prosperity for now and future generations. These include social progress and equality, environmental protection, conservation of natural resources and stable economic growth.	5	Sustainability and Energy	Focused
IF-B15	Sustainable and inclusive development management	Business	With a world population of nearly 8 billion and global GDP of \$70 trillion, human impacts on the environment have already reached dangerous levels. By 2050, world	6		Inclusive

			population could reach 9 billion and global GDP \$250 trillion. Despite unprecedented growth in countries such as China and India, over 1 billion people still live in extreme poverty—mostly in South Asia and Africa. The central challenge for humanity in the 21st century is how to address the triple issue of ending extreme poverty, improving social inclusion, and achieving sustainability for the planet.			
ATMF - BO7	International accounting standards	Economics	The course aims to contextualise and develop the main aspects of the preparation of financial statements according to international accounting standards, with considerable attention to the comparison of national and international accounting practice; the course is in the area of the business administration disciplines that broaden and deepen the knowledge acquired in business administration and accounting and financial reporting.	5		Inclusive
IF-B15	Innovation management	Business	Purpose of this course is to introduce and explore innovation management concept, how to manage product innovation and product development and build competitiveness through innovation. Delivering new ideas and technologies as successful products to market in a sustainable way is at utmost importance for companies.	4		Focused
ATMF - BO7	Energy and Society business	Business	National and worldwide patterns of production and consumption of renewable and non-renewable energy sources and the connection of those patterns to socioeconomic conditions. For each resource, we consider the environmental effects of extraction, distribution, and consumption; how efficiently the resource is used and for what end uses; current reserves and projections for the future; socioeconomic and political factors affecting the resource's utilization. The course addresses interactions between energy use and climate change, food and water resources.	6	Sustainability and Energy Module	Focused

IF-B12	Public Finance	Economics	This course is intended to be an introduction to the study of the role of government in the economy, with an emphasis on the microeconomic aspects of this role. Both the taxation and the expenditure sides of government activity will be studied. The first part of the course will be devoted to the theory of public finance in order to build a foundation for the remainder of the course, which involves the application of this theory to particular programs and institutions (policy analysis). Typical topics include: public goods, social security, income taxation, tax reform, fiscal federalism, ect.	6		Inclusive
School of Sciences						
Course Key	Course Name	Department		Credits	Observations	Type
UFS-B04	Ethics	Pedagogy, Psychology and Sociology	At the end of the course, the student will obtain human acts' knowledge and values to make decisions that contributes to social order. All of these through readings, research, projects, discussions, and group presentations	3		Inclusive

Graduate courses list

School of Engineering and Technologies

Course Key	Course Name	Department	Course Objective	Credit	Observations	Type
MIF-B04.05	Environmental Monitoring	Ecology		6		Inclusive
MHF-B01	The Modern Problems of Ecology	Ecology		4		Inclusive
MIF-B04.04	Environmental Issues of Chemical and Petrochemical Industries	Ecology		6		Inclusive
MIF-B05.02	<ol style="list-style-type: none"> 1. Structuring Land Use for Livestock to Ensure Environmental Protection 2. Livestock Development and Environmental Problems 	Ecology	Environmental issues, such as climate change, biodiversity loss and energy consumption and our responses to them are of global concern. we will explore the most significant and topical global environmental issues affecting societies, ecosystems and the physical milieu. The course will examine socio-economic and political factors in addition to the science behind many of the issues.	8		Inclusive

MIF-B05.03	1. Agroclimatic Resources And Agriculture 2. Agro-chemistry and Environmental Protection	Ecology		8		Focused
MHF-B01	The Modern Problems of Ecology	Environmental Protection in the Agrarian Sector	The aim of the course is to form a set of knowledge and competencies about current issues of modern ecology, the main trends of man-made changes in the environment, principles of ecological forecasting and modeling of the environment, basics of environmental risk management and forecasting, modern technologies in remediation and restoration of environmental components.	4	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
MIF-B02	History and Methodology of Ecology	Environmental Protection in the Agrarian Sector	This class is designed to help you develop critical reading and thinking, collaborative learning, written and oral communication skills, understanding about the historical dimension of human interactions with environment and climate, and informed global stewardship.	2	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
MIF-B04.01	Organization of Ecological Businesses	Environmental Protection in the Agrarian Sector	The aim of the course is to develop the students' analytical skills, provide basic knowledge and strategic skills regarding the interrelation between the environment, society, and economic and organizational performance. In particular it aims to strengthen the students' cognitive resources and analytical experience by informing on the historical biophysical processes of local and global ecologies tracking major changes in humanity up to the contemporary global environmental crisis; presenting and recreating the current debates and projects to solve problems and take opportunities confronting socio-environmental changes; and explaining and exercising corporate social responsibility strategies for innovative and sustainable competitiveness	6	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive

MIF-B04.02	Micro and Macro Economics (level III)	Environmental Protection in the Agrarian Sector	The aim of the course is to introduce students to the main analytical tools which are used in economic analysis. main conclusions derived from economic analysis, and develop their understanding of their organizational and policy implications, to enable students to understand and participate in debates on economic matters, choosing proper frameworks of economic analysis for specific cases.	6	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
	Environmental Problems Connected with the Efficient Use of Natural Resources	Environmental Protection in the Agrarian Sector	The aim of the course is to offer an insight in environmental and natural resource economics and a deeper analysis of environmental policy instruments. The concept of natural resources is applied on renewable resources, such as forests, but also on non-renewable resources such as oil and minerals.	6	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive
MIF-B04.05	Environmental Monitoring	Environmental Protection in the Agrarian Sector		6	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused
MIF-B04.03	Processing of Waste to be Released into the Environment	Environmental Protection in the Agrarian Sector		6	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused

MIF-B04.04	Environmental Issues of Chemical and Petrochemical Industries	Environmental Protection in the Agrarian Sector		6	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused
MIF-B05.01 1.	1.Environmental Issues Resulting from Agricultural Development 2. Problems Resulting from the Production of Ecologically Clean Agrarian Products'	Environmental Protection in the Agrarian Sector		8	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused
MIF-B04.06	Environmental Problems Caused by the Energy Sector	Environmental Protection in the Agrarian Sector	The programme provides the graduates with the knowledge base and the practical knowledge of how to use energy in the most environmentally friendly way. The core curriculum introduces principles of energy efficiency, energy services, facility management, plant engineering, environmental compliance and alternative energy technologies and incorporates project-based labs that teach the processes and skills involved in planning, design and construction with an emphasis on fishery industries.	6	Subject of compulsory studies, which addresses a unit of environmental and sustainability themes.	Inclusive

MIF-B05.02 1.	1.Structuring Land Use for Livestock to Ensure Environmental Protection 2. Livestock Development and Environmental Problems	Environmental Protection in the Agrarian Sector	This course focuses on Sustainable Land Management (SLM) practices, and their place within the global development agenda, specifically in order to achieve target 15.3 of the Sustainable Development Goals (SDGs), which aims "to achieve a land degradation-neutral world". The course assists policy makers, practitioners and land users in the selection, planning, implementation and monitoring of SLM interventions, and related enabling environment.	8	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused
MIF-B05.03 1.	1.Agroclimatic Resources and Agriculture 2. Agrochemistry and Environmental Protection	Environmental Protection in the Agrarian Sector	Earth atmosphere- its composition, extent and structure; Atmospheric weather variables; Atmospheric pressure, its variation with height; Wind, types of wind, daily and seasonal variation of wind speed, cyclone, anticyclone, land breeze and sea breeze; Nature and properties of solar radiation, solar constant, depletion of solar radiation, short wave, longwave and thermal radiation, net radiation, albedo; Atmospheric temperature, temperature inversion, lapse rate, daily and seasonal variations of temperature, vertical profile of temperature.	8	Subject of elective studies, which addresses a unit of environmental and sustainability themes.	Focused
School of Business						
Course Key	Course Name	Department	Course Objective	Credit	Observations	Type
MIF-B03.05	Leadership	Business	This program helps build individual awareness to improve self-efficacy, maximize impact, and enhance the ability to adapt, adjust, and thrive in a wired world.	4		Inclusive

MiF-B04.06	Risks and their management	Economics		6		Focused
MiF-B03.13	Business Management	Merchandising and Expertise	At the conclusion of this subject, the student will be able to apply the knowledge and tools acquired to undertake their own business, will dominate the accounting principles and their application, as well as the methodologies to be able to launch new innovative and profitable businesses to the market.	6		Inclusive
MiF-B04.01	Organization of Ecological Businesses	Business		6	Sustainability and Energy	Focused
MiF-B03.10	Investment Management	Economics		6		Inclusive
MiF-B04	Creative and Innovative management	Business		6		Focused
MiF-B08	Innovation and Investment Project management	Business	Purpose of this course is to introduce and explore innovation management concept, how to manage product innovation and product development and build competitiveness through innovation. Delivering new ideas and technologies as successful products to market in a sustainable way is at utmost importance for companies.	8		Focused

School of Sciences

Course Key	Course Name	Department	Course Objective	Credit	Observations	Type
MHF-B04	<ol style="list-style-type: none"> 1. Academic Ethics 2. Organizational Behavior 3. Creativity and Leadership 	Pedagogy, Psychology and Sociology	At the end of the course, the student will obtain human acts' knowledge and values to make decisions that contributes to social order. All of these through readings, research, projects, discussions, and group presentations	2		Focused