Study modules for bachelor's degree programmes

Name	Credits	Dumase	Pressintian	Phoneters and taxion
Name Environmental Radiant Energy Sources	G	Purpose To obtain knowledge of the principal types of radiant energy sources properties and the potential. Knowledge of radiant energy usage potential and prospects.	Description Environmental admenengy sources: Potential of radiant energy and usage possibility. Technologies of the conversion of solar radiation into electrical energy.	Chapters and topics 1. Rediation. Dimensions and units. 2. Lews of radiant energy. 3. Sources of radiant and light energy, their classification and usage. 4. Use of the Sun radiant energy and technology of conversion to electric power. 4. J. Portherial of Sour energy in Librauna. 4. Device of Source energy in Librauna. 4. So energy in Librauna. 5. Sources of radiant power technologies. 5. Efficiency and prospects of use radiant energy.
Environmental Protection in Construction	3	To provide knowledge about environmental protection, the primary international. Excrepant and Uthuranian environmental legislation, environmental larget control, and methods of reducing environmental polition and to develop skills in evaluating the sustainable usage possibility of natural resources in civil engineering.	Theoretical and practical knowledge necessary for sentific research and design is acquired about environmental pollution during construction and building operation, boot the environmental lingact monitoring and pollution reduction methods. Knowledg is acquired about valid environmental legal acts. The ability to solve pollution reduction and pollution treatment uses of atmosphere. Sol, water, and domestic and industrial wastewater is acquired.	1. The concept of environmental protection. Impact on the environment in ovir engineering 2. Environmental legial acts 2. Environmental eligialatis 3. Compare environmental politulor 3. Compare environmental politulor 3. Reduction of physical politulor in ovir engineering 4. The evaluation of the effects on the environment 4. Nonicoting environmental explores 4. Provinnential and control of the effects on the environment 5. Interaction and control of the effects on the environment 5. Interaction and control of the effects on the environment 5. Environmental politiforial magneting 5. Environmental for tollidings' heating and cooling 5. Development of tostalanable use of nutural resources in the civil engineering 6. Provemion of ediatable 5. Provemion of ediatable 5. Provemion of subanable sets of nutural resources in the civil engineering 6. Provemion of ediatable 5. Provemion of ediatable 5. Provemion of subanable sets of nutural resources in the civil engineering 6. Provemion of ediatable 5. Provemions 6. Provemions 6
Waste Management and Recycling Technology	3	Gaining knowledge about the sources of waste generation, waste quantilies and influencing factors, and the main characteristics of the waste handling and recycling methods, equipment and technology	Knowledge of types and composition of wastie, its generation, sources, physical, chemical and biological properties of wasts principies of waste management, legal famework and priorities for waste management, legalmaine, mechanica, biological and thermal treatment, hazardous waste and its sources, reuse the use of secondary raw materials.	1. Waste management of legal regulation and management priorities for the EU and Lithuania 2. Waste generation, nature, collection and transportation 3. Machanical treatment of waste 4. Biological treatment of maste 6. Therman Waste Treatment and Disposal 6. Therman Waste Treatment and Disposal 7. Waste landling 8. Hazardous waste sources, types and properties, processing 9. All actionus extension and thermalis processing technology 10. Main streams of capter opering technology 11. Class, plaste and paper recycling technology 12. Re-use of waste for the manufacture of construction products 13. Radioactive waste storage
Waste Management and Recycling Technology	6	Gaining knowledge about the sources of waste generation, waste quantities and influencing lactors, and the main characteristics of the waste handling and recycling methods, equipment and lactinology	Is able to identify the types and composition of their formation, the sources of wasa,thysical, _themical and bological properties of wasat management the source of the sources and the sources and the sources management. storage of wasa's in landfills, mechanical, biological and themat treatment of hazardous waste and their sources, re the use of secondary raw materials.	1. Waste management of legal regulation and management protifies for the EU and Lithuania 2. Waste generation, nature, collection and transportation 3. Waste generation, nature, collection and transportation 3. Mechanical Future of waste 3. Mechanical-biological treatment of mixed waste 5. Mechanical-biological treatment of mixed waste 6. Mechanical-biological treatment of mixed waste 6. Mechanical-biological treatment of mixed waste 6. Mechanical-biological treatment of mixed waste 7. Waste landfilling 9. Main streatment and properties, processing 9. Main streatment und page rango technology 11. Giase, plastic and page rangoling technology 11. Giase, plaste and page rangoling technology 11. Giase, plaste and page rangoling technology 12. Revue of waste for the manufacture of construction products 13. Radioactive waste storage
Renewable Energy Technologies	6	To acquire knowledge of technologies for transforming of renewable energy into Bremail and electric energy, to know their advantages and disadvantages and to evaluate their economic parameters.	The students are taught to understand renewable emergy technologies, areas of their utilization and difficuncy of them a well as to understand the student of the student of the student of the pomany ready should be able to the student of the pomany ready should be able to the student of the pomany ready should be able to the student of the pomany ready should be able to the student of the best technologies.	1. Politics of usage of renewable suerce and energy technologies 2. Solar, wind and hydropower 2. Solar oxidosition of the water 2. Solar oxidosition of electric energy 2. Solar oxidosition 3. Technologies for oxitilazition of low temperature and geothermal energy 3.1. Technologies 3. Technologies 4.1. Bologia power plants 4.2. Technologies 4.2. Technologies 4.2. Technologies 4.2. Technologies 4.2. Technologies 4.3. Technologies 4.4. Solar 4.5. Technologies
Renewable Energy Systems in Buildings	6	To gain knowledge about renewable energy technologies in buildings, to analyze these systems as well as integrate it into heating ventilation and air conditioning systems of buildings.	renewable energy technologies in buldings, its princial schemes, purpose, functioning, eujoment used, control and maintenanon. To obtain skills in design of these systems, performing energy supply analysis for buldings. To be able to participate in discussions and aeromatike energy systems' integration into healing, venilation and air conditioning systems of buildings.	1. Renewable energy technologies in buildings 1.1. Hest pumps and geothermal heating systems 1.2. Vicit energy systems in buildings 1.3. Vicit energy systems in buildings 1.4. Vicit energy systems and buildings 1.4. Renewable and power and buildings 1.6. Natural and hybrid vesitation systems 1.6. Natural and hybrid vesitation systems 2.1. Passive energy herhonologies in buildings 2.2. Passive energy herhonologies in buildings 2.3. Solar shufing and solar insolation control systems 2.3. Solar shufing and solar insolation control systems 3.5. Briand al evaluation of renewable energy systems 3.6. Financial evaluation of renewable energy
Design of Renewable Energy Sources System	6	To provide students with knowledge and acquired skills to help carry out despination of renewable energy sources into energetics.	In final projects, students must show their basic knowledge of newable energy systems, their properties and potential practical applications not only in Lifbuania but also in other countries, and know the political concept of enewable energy resources and development.	1. Introduction 2. The Calculations of Thermal Energy System 3. Heat Energy from Wind and Solar 4. Thermain Energy from Biomass 5. Heat Prumps 6. The Calculations of Fair Calculations 6. The Calculations of Fair Calculations 6. The Calculations of Electricity from Worker 10. Electricity from Work Solar and Worker 10. Electricity from Work Solar and Worker 11. The selection of Hybrid Power System 11. The selection of Hybrid Power System
High Voltage Engineering of Renewable Energy Sources	6	To give produced enveloped a should ticknarge processes in generative, solid and liquid insulation. Specifical anice: study the structure of insulation of electrical devices; renarging enveloped and formation reasons and averaging the service study the principle of work of protection means against over-tollages; analyze method corrollages in consolution; analyze principles of insulation coordination.	Eachcla processes in past, fluids and hand insulting metricals. Decharging in different (and direk). The oc- ordination of insulation, electric resistance and its duranticestics. Antophysics over-onlegane: regime and switching. Potection devices. High veltage biochtopy. Electric systems equipment and apparatus, their protection. Maintenance check-up and testing of insulation.	E Elector-physical processes in detection I Di pischargin in morkedly non-binorgeneous electrical field I Di pischargin in morkedly non-binorgeneous electrical field I Di pischargin in morkedly non-binorgeneous electrical field I Di pischargin en dietectric surface in air I Di Schargin en dietectric surface I Di subation of electrical machines and transformers I Di Schargin en dietectrical machines and transformers I Di Schargin en dietectrical machines and transformers I Di Schargin en dietection surface in air I Di Schargin en dietection surface I Di Schargin en dietection and transformers I Di Schargin en dietection and transformers I Di Schargin en dietection surface I Di Schargin en dietection dietection substations I Di Schargin en dietections Eucliding surface I Di Schargin en dietection dietection I Di Schargin en dietection surface I Di Schargin en dietection surface I Di Schargin en dietection dietection I Di Di Di Di Di Di Di Di Di

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		To teach the students for servo motors, machines of information systems, synchro systems, automatic control	Classification of renewable sources electrical machines. Transformers. Specifications of induction	Classification of renewable sources electrical machines, the fields of their application Transformers of renewable sources
		systems and renewable energy sources, their characteristic	machines of renewable energy sources. Direct current electrical machines and methods of their control.	3. Induction machines 4. Alternating current servo motors
		features, performance characteristics, modes of operation. The specific aims are: to analyse constructions of renewable	Electrical machines with permanent magnets.	5. Induction capacitor machines
Electrical Machines of Renewable	6	sources electrical machines, to learn the methods of parameters and characteristics measuring of the machines.	Synchronous machines, methods of their control and main characteristics. Machines of control systems:	6. Synchronous electrical machines of renewable sources 7. Special ourpose synchronous machines
Sources	0	to learn mathematical models and software of simulation of	tachogenerators, resolvers, rotary amplifiers. Electrical	8. Stepping motors
		steady state and dynamic work modes, to use data bases and catalogues of the machines.	machines of synchro systems - synchros. Steppers, brushless and special electrical motors.	9. Encoders of rotation speed and position 10. Direct current electrical machines
				11. Electroniccaly commutated direct current motors 12. Tachogenerators, resolvers, rotary amplifiers
		To provide knowledge about renewable natural resources, their availability, and to familiarize with the features of	Knowledge is provided about renewable natural resources, their availability, and the peculiarities of	Renewable Natural Resources: Origin, Classification and Availability Sustainable Principles of Extraction and Transportation of Renewable Natural Resources
		extraction, transportation, primary processing, selection of	their extraction, transportation, pre-processing,	3. Political, Economic and Environmental Aspects of Renewable Natural Resource Management
		suitable resources/raw materials and possibilities of practical use.	selection of suitable resources/raw materials and possibilities of practical use are introduced.	 Plant-based Resources/Raw Materials, Their Composition, Properties, Extraction and Primary Processing Technologies Resources/Raw Materials of Animal Origin, Their Composition, Properties, Extraction and Primary Processing Technologies
			possibilitios of protocol allo are initioadood.	6. Resources/Raw Materials of Marine Origin, Their Composition, Properties, Extraction and Primary Processing Technologies
Renewable Natural Resources	6			 Raw Materials of Microbiological Origin, Their Composition, Properties, Extraction and Primary Processing Technologies Selection of Renewable Natural Resources/Raw Materials Suitable for the Production of Biomedical Materials and Principle
		Getting knowledge about characteristics of biofuel, production and using technologies. Attaining knowledge	Getting knowledge about biofuel property and biofuel using technologies. Learning of calculation of fuel	1. Biofuel 1.1. Basic of fuel combustion theory
		about using of wastes for energy production, of air pollution	consumption and another technological parameters.	1,2. Sorts of biofuel and characteristics
		and emissions reduction	Learning of biogas production and biogas using technologies for energy production. Getting	1.3. Combustion technologies for biofuel 1.4. Boilers design
			knowledge about energy potencial of wastes and	1,5. Gasification of solid biomass
			utilization possibilities. Learning pollutant generating by combustion process, reduction of pollutants	2. Biomass 2.1. Production of biogas and characteristics
Biofuel and Biomass	6			2,2. Technologies for biogas utilization
				3. Fuel from waste 3.1. Wastes energy potential
				3.2. Waste burning technologies 4. Environmental protection
				4,1. Formation of gaseous pollutants
				4.2. Prevention of pollutants generation 4.3. Cleaning of flue gases
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		To know through understanding of influence of transport	Students are thought to understand the characteristics	
		system on sustainable development. To teach through understanding of development of transport system from	of transport system, to describe and analyse the relation between elements, relations with environment,	 Occurrance and realization of transport demand Influence of technical progress on development of sustainable transport system
Sustainable Transport System	6	occurrence of transport demand to modern, in the main strategical documents of European Union and Baltic Sea	principles of sustainable transport system and to apply	A. Design, production and implementation of fyzical and functional components in to system of sustainable transport Aims of Lithuanian and Baltic sea region by realization of global policy of sustainable transport develoment
Sector Contraction of Contraction	v	region mented aims of sustainable develoment adequate	in transport engineering practice, to evaluate peculiarities of transport systems, new strategies and	 Hine or clanaditati and palad sea region by realization of global policy of sustainable transport development
		technological levels.	aspects of transport policy and sustainable development.	
		The aim of the module is to present the students with the	The module encompasses the theoretical knowledge,	1. Sustainable development and environmental ethics. Main international and national documents
		concept of sustainable development and its application in the formation of environment devoting the main attention to the	architectural research, and the development of architectural concepts and provides the students with	2. History of ecological and sustainable architecture 3. Sustainable architecture assessment criteria and certification
		architecture of the buildings.	the fundamentals of application of the principles of	4. Concept and typology of sustainable architecture
Sustainable Architecture	3		sustainability in architectural design.	5. Technologies, materials and aesthetics of sustainable architecture 6. Sustainable development of territories
				7. Biophilic design
				8. Future visions of sustainable architecture. Decarbonized architecture
		The aim of the module is to present the students with the concept of sustainable development and its application in the	The module encompasses the theoretical knowledge, architectural research, and the development of design	Introduction. Concept of sustainable development Sustainable development, environmental ethics and architecture
		formation of environment devoting the main attention to the	ideas and provides the students with the fundamentals	3. Sustainable development: international and national documents
		architecture of the buildings.	of application of the principles of sustainability in development of environment. General principles are	4. Sustainable architecture assessment criteria 5. Biophilic design
Sustainable Architecture	6		explained by analyzing the examples of contemporary architecture. The Design Thinking method is	C. Typology and expression of sustainable architecture T. Technologies, materials and aesthetics of sustainable architecture
			integrated in the module for the understanding of the	8. Sustainable development of territories
			social dimension of sustainability.	
		To provide knowledge about main principles or sustainable	Students are introduced to the principles of sustainable chemistry and the importance of their	1. Relevance and History of Sustainable Chemistry
		chemistry and necessity to apply them in chemical industry and scientific laboratories.	application in the chemical industry. They will learn to	2. Fundamentals of chemicals toxicity and legislation 3. Atom Economy and E Factor
			evaluate the atom economy and E factor beside the product yield.	The benefits of catalytic process application for chemical industry Reducing number of steps in synthesis
				6. Safer Solvents and Auxiliaries
Sustainable Chemistry	6			7. Increasing energy efficiency whic is applied for reactions 8. Waste prevention, recycling and reuse
Sustainable Chemistry	0			9. Safer Chemicals 10. Less Hazardous Chemical Syntheses
				11. Use of Renewable Feedstocks 12. Design for Degradation
				13. Real-time analysis for Pollution Prevention 14. Inherently Safer Chemistry for Accident Prevention
				14. Innerently Saler Chemistry for Accident Prevention
		To acquire knowledge on sustainable food system concept,	The knowledge is acquired about the sustainable food	1. Sustainable food system concept, principles and compliance to UN Sustainable Development and European Green Deal goals
		social, economical, environmental and technological issues of their implementation and development, and the	systems, the social, economic, environmental and	Social, economic and environmental impacts in sustainable system development and implementation Social, economic and environmental impacts in sustainable system development and implementation Social, economic and environmental impacts in sustainable system development and implementation Social, economic and environmental impacts in sustainable system development and implementation Social, economic and environmental impacts in sustainable system development and implementation Social, economic and environmental impacts in sustainable system development and implementation Social, economic and environmental impacts in sustainable system development and implementation Social, economic and environmental impacts
		importance in the changing society and environment	development, and their importance in the modern	 Life cycle assessment of food systems
Sustainable Food Systems	6		changing society and environment	5. Carbon footprint in food industry and its reduction strategies 6. Water footprint in food industry and its reduction strategies
ove systems	v	1		
				7. Food waste reduction and valorization opportunities for different food industries
1				 Food wastle reduction and valorization opportunities for different food industries Innovative manufacturing and packaging technologies in sustainable food systems
		To acquire knowledge about and understand the sustainable	Essential sustainable development concept	7. Food waske reduction and valorization opportunities for different food industries 8. Innovative manufacturing and packaging technologies in sustainable food systems 9. Application of deamer production and green supply chain principles in the food industry 1. The concept and history of sustainable development
		development concept, principles, its relationship to life quality, be able to apply the acquired knowledge in practice	knowledge is acquired, main sustainable development principles are understood and are able to apply the	7. Food waske reduction and valorization opportunities for different food industries 8. Application and general productions and gene supply chain principles in the food industry 9. Application of deareer production and green supply chain principles in the food industry 1. The concept and history of sustainable development 2. Sustainable development strategy and implementation principles
Introduction to Sustainable	6	development concept, principles, its relationship to life	knowledge is acquired, main sustainable development	7. Food waske reduction and valorization opportunities for different food industries 8. Inovalive manufacturing and packaging technologies in sustainable food systems 9. Application of deaner production and green supply chain principles in the food industry 1. The concept and history of sustainable development 2. Sustainable development challenges
Introduction to Sustainable Development	6	development concept, principles, its relationship to life quality, be able to apply the acquired knowledge in practice	knowledge is acquired, main sustainable development principles are understood and are able to apply the acquired knowledge in practice, analysing the impact	7. Food waske reduction and valorization opportunities for different food industries 8. Application of deamer production and green supply chain principles in the food industry 9. Application of deamer production and green supply chain principles in the food industry 1. The concept and history of sustainable development 2. Sustainable development challenges 3. Sustainable development challenges 3. Sustainable development 5. Global environmental problement 5. Global environmental problems and threats 6. Industries 6
	6	development concept, principles, its relationship to life quality, be able to apply the acquired knowledge in practice	knowledge is acquired, main sustainable development principles are understood and are able to apply the acquired knowledge in practice, analysing the impact of the decision of specialists in economic, social and	7. Food waske reduction and valorization opportunities for different food industries 8. Application of deamer production and green supply chain principles in the food industry 9. Application of deamer production and green supply chain principles in the food industry 1. The concept and history of sustainable development 2. Sustainable development strategy and inglementation principles 4. Ormensions of sustainable development 4. Social and viscouries of threats
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	6	(development concept, principles, its relationship to life quality, be able to pay the acquired knowledge in practice in typical situations. To provide knowledge of the concept, ethics, scope, social	knowledge is acquired, main sustainable development principies are understood and are able to apply the acquired knowledge in practica, analysing the impact of the decision of specialists in economic, social and environmental terms. Gains knowledge of the concept of artificial initialigence, the assential differences with automated and rabotic systems. The types of 'harrow', "general"	7. Food waske reduction and validization opportunities for different food industries 8. Application of cleaner production and green supply chain principles in the food industry 9. Application of deaner production and green supply chain principles in the food industry 1. The concept and history of sustainable development 2. Sustainable development strategy and inglementation principles 4. Dimensions of sustainable development 6. Slockel environment prodems and freads 6. Indevdicement prodems and freads 6. Indevdicement prodems and freads 6. Slockel environment prodems and freads 7. Sustainable development reduction of artificial intelligence 7. Prode norgaming language - an introduction to the solution of artificial intelligence problems 3. Modemization of exchanges and application gools of artificial intelligence 3. How concept, tees and application gools of artificial intelligence 3. Modemization of sustainable development 3. Modemization of activities of artificial intelligence 3. Modemization of activities of activities of artificial intelligence 3. Modemization of activities
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Geothermal Energy and Heat Pumps	6	To acquire knowledge about sources and systems of geothermal energy, heat pumps, principies of calculation and simulation, to analyse environmental and energy saving problems.	Sludents are accuired the knowledge about sources and systems of goethmal energy, goethmal power plants and heat pumps. They are able to understand nature of goethmeu energy systems and processes, fulfiling requirements of safety, reliability and efficiency. Sludents are acquired the methodology of heat pump system design. They are able to analyze working cycles, to make a decision using new technologies and saving energy.	1. Resources of optimaria energy 1. Resources of pothermal energy 1.2. Potential of utilization of geothermal energy 2.2. Potential of utilization of geothermal plants 2.3. Foundationing principles of geothermal plants 2.2. Systems and equipment of geothermal plants 3. Heat pumps 3.3. Types of heat pumps 3.2. Chanadersitics of heat pumps 3.3. Systems of heat pumps 4. Energy saving and ecology
Geothermal Energy and Heat Pumps	3	To acquire knowledge about occurses and systems of geohermal energy, heat pumps, principles of calculation and simulation, banalyse environmental and energy saving problems	Subdrate are acquired the knowledge about sources and spatient of pointmul energy, solarmal power planta and heat pumps. They are able to underlands nature of genothered energy spatient and poossass, stilling requirements of staffly, reliability and efficiency. Students are acquired the methodology of heat pump system design. They are able to analyze working cycles. In male a devision using new technologies and saving energy.	1. Resource devolution of geothermal energy 1. 2. Postmit of conformal energy 2. 2. Postmit of conformal energy 3. 2. Foundation of geothermal energy 2. Continent plants 3. Lead evulnent of geothermal plants 3. Head enurge 3. Head enurge 3. 1 Types of head pumps 3.2 Obtanctivities of head pumps 3.3 Refigurants and Briens 3.4 Systems of head pumps 3.4 Energy saving and ecology
Hydraulics and Hydropower Plants	3	To provide knowledge of the laws of fluid equilibrium and flow, hydraulic mathines, systems and hydrop-ower plant, to develop skills in applying of the knowledge in practice: In the fields of hydraulic systems, drives and hydropower.	The larse of huid equilibrium and fow are assimilated Subdents acquire to apply herevised to howedge for solution of engineering problems. Knowledge about hydraulic and prevanted machines and their practice using is obtained. The fundamentals of hydropower are assimilated. Subdents acquire to find optimal working place for hydropower plant in country general turbines, payes of hydropower plants, their structure and operator principie is obtained. Students get knowledge about hydropower plants in Liftuania and perspective of new hydropower plants buildings	
Language Ecology	6	Provide with the knowledge of language ecology and the skills of the proper use of the Lithuanian language referring to the inguistic environment. Teach to each a lithuanian teat of different skyles and genres, notice and correct the shortcomings of technical texts and mistakes of inguistic expression.	Educate to foster versatility of language environment, ts regularly and clearness referring to language usage interface with a social context and a particular situation. They are able to write correctly and edit publications related to their future activity, are able to perform inguistic analysis of a technical texts. Foster situs to analyse arounds aspects of a language and inguistic phenomena of language standards.	Concept and the main principles of language ecology. Paradigm of language ecology. Social aspects of language usage. Language and its varieties. Language pology. Social spects of language usage. Language and its varieties and their application. Language standardization and regularity. Inguistics prescriptivism. S. Principse of luminan language management. codification or their application. A. Application of borrowings Trincipse of using foreign words, grammar, adaptation. S. Text composition: structure, coherence, functions and expression of text linking tools S. Creation of Univarian text of different types, styles and geness. Text structure flaws. It. Formal requirements for computer-typed text.
Sustainability of Materials and Environmental Protection	6	To provide knowledge about the possible impact of the poduction and use of biomedical metanetian on the environment, the principles of sustainable development of materials, to acquire the ability to assess the sustainability of materials.	Knowlege is gained about the potential impact of traditional and advanced homerical materials and their padaging production methods on the environment Ahillik is gained to concrete-heaving understand the impact of a sustainable design statility on the development of potodick and beinhological production process on the environment form the sustainable of the product and the subhological production process on the environment from the stratedion of new materials to the disposal of the final product.	1. Sustainable production and sustainable consumption in society. 2. Regulation of sustainable products the European Linco. 3. The impact of the production and use of biomedical substances on the environment. 4. Market is usatinable products the biomedical support on the environment. 5. Market is usatinable biomedical reports of the environment. 6. Design strategies for sustainable biomedical reports of the production and their packaging. 7. Material sustainability assessment methods and tools. 8. Life cycle assessment of biomedical substances
Non-renewable Natural Resources	6	To provide knowledge of non-renewable natural resources, their origin, availability, and their extraction, transport, pre- processing, selection of suitable resources/raw materials and their practical	It provides knowledge of non-renewable natural resources, her availability, and introduces the specifics of extraction, ramport, pre-processing, selection of suitable resources/raw materials and practical applications.	Non-renewable natural resources: origin, classification and availability Sustainable principles for the extraction and transport of non-renewable natural resources Subtained, ecconomic and environmental aspects of managing non-renewable natural resources Petroleum, coal and natural gas resources, extraction, properties and processing technologies of raw materials Morren resources combining metal compounds. Extraction, properties and processing technologies of raw materials Non-metallic and refractory compounds and their resources. Raw material extraction, properties and processing technologi Selection of non-renewable raw materials suitable for the production of biomedical materials and their application
Solar Energy	3	To give the fundamental information about solar energy. To learn the projecting of solar station conections to electricity networks. The specific aim is to learn the projecting of solar stations parks.	The students are taught to understand the purpose and struture of solar statons suing, to select solar statons types, to calcular he anounts of elechrishy, bus voltages and current, to design projects of solar stations connecting to networks.	Solar energy conversion technologies Solar energy notwersion technologies Solar energy notwersion of photovoltaic modules and converters A. Design and connection of solar power plants to electrical grids Solar power plants and technology Solar power plants and technology Tyhydia and island model salar plants systems Solar power installation problems and prospects for the future
Civil Engineering Structures and Environment Protection	3	To acquire knowledge about environment protection and main legal acts of and an inhracino behaven structures and environment during structures life cycle. To know the main methods to reduce the pollution.	Asimitate theoretical and practical involvedge needed for sonthic reason-tax and design, howeldge about the environmental pollution during the construction and building maintance processes and the methods of the reduction of pollution. Obbain knowledge about using environmental legal lacts. Chain the ability to solve the engineering tasks of soli, water, household and industrial waterwater clearing. Chain the ability to choose environmentally friendly building materials and organize the constructional waste management.	2,1. International protocols, conventions and agreements.
Sustainable Transport: Technologies, Environment and Interaction	6	To gain thorough understanding of road, railway, air, water and polenies transportation technologies, transportation operations, organization and parining of transport lows, peculiarities of transportation by road, rail, water, air and peculiarities of transportation by road, rail, water, air and operations, necessary inguiling documents, transport management systems. The specific airns are to analyze advantages and disartenagos of transportation technologies, analysis of transport statistics, choice of appropriate transportation mode according the requirements of the clients and transportation technologies, perform the planning of transportation specarson.	The student is thought to know main transportations, operations, transport statistics, regulating documents, and b apply if thransport angineeting paractios, to apply general methods of transportation technology popularities of the savenger and frequit thransport, new strategies and aspects of transport policy, to form transportation plans.	1. Sustainable Transport Systems, elements and models 2. Mathematical Transport Models 3. Pricipian of Transport Models 4. Bigant Transport Systems 5. Transport Bigants 6. Transport Bigants 6. Transport Bigants 7. Sustiscut Analysis of Transport Data 8. Transport Bigant 9. Obtractedistics and Dynamics of Traffic Flows 9. Obtractedistics and Dynamics of Traffic Flows 11. Expineering Means of Traffic Organization 11. Engineering Means of Traffic Organization 12. Traffic Setty 13. Coordianted Traffic Control
Circular Economy and Law	6	To acquire circular acconcery principles and legal requirements in environmental management.	Mechanism of environmental acconomics are torsom- ta well as exponent calculations and performed, alternative environmental includions are performed. Substantial circular economy principites in environmental management are learned. General incovidege about Europen 1 Union leag alt structure are obtained. The students will be able to apply the main European Union and Lithunain environmental law search and analysis.	1 Development of environmental economics and the main principles. 2 Environmental recourses management models. 3 Principles of circular economy. 4 Economic and activity for the environmental measures. 5 Alternative environmental protection. 6 Economic estimation in environmental protection. 7 European Union legal structure. 8. Teh main legal environmental protection. 9. European Union legal environmental protection. 9. European Union legal environmental ava. 10. The main environment protection laws of Lithuania.

Sustainable Safety in Construction	3	To acquire theoretical background of occupational safety and health: to acquire the abilities to apply it practically in planning, implementation and operation of contruction projects.	Acquired knowledge about integrated planning, organization and management of occupational safety and health incomstruction, occupational safety and health requirements, mandatry documents and procedures on the constructions risk. Acquired an understanding of the occupat of load upwelly quality mandants of guality settince, their software mandants of guality settince, their software mandants of guality settince, their software notativution entegration. To assess the software health measures to make rational health and safety and environmental sociations to any on construction projects in view of substantiable security aspects and influences people.	Occupational safety and health aspects of construction sites Occupational health and safety legal regulation in the construction sector Structural, technological and security solution synthesis Occupational health requirements for involutation and the security solution synthesis Social discipation and the involutation relation and the security solution synthesis Social discipation and the security solution synthesis Social discipation and the security solution and the security solution synthesis Social discipation and the security solution and the security solution synthesis Occupational stress and its treatment Sustainable safety management system continuous improvement
Sustainable Safety in Construction	3	To excite the Recetteral background of occupational safety and health to acquire the abilities to apply it practically in planning, implementation and operation of construction projects.	Acquired knowledge about integrated planning, orgen table in construction coupsional ashipy and table in construction coccupational ashipy and health requirements mandatary documents and planning and the manufacture of the states of the safety and health manufacture of the states of the construction projects in view of sustainable security aspects and influences people.	1 Occupational safety and health problems 2 Occupational safety and health problems 3 Occupational health and safety legal regulation 3 Occupational health and safety legal regulation 5 Occupational health and safety legal regulation 5 Occupational health and safety legal regulation 5 Occupational health and safety outcomest for nonlocates buildings 5 Environmental environging and anscenty outcomest 7 Oceaned and dependence and basis of submittable constructions relie 8 Strategic objectives and basis of submittable constructions supervision 9 Conditions by providing safe and healthy working conditions in the enterprise 10. Accidents and occupational disease investigation 11. Substanced basis of management effects on introvement
Human, Building and Environmental Safety in Construction	6	To provide knowledge of the theoretical foundations of environmenti, occupational safety and health and practical application in the planning, implementation and operation of construction projects.	Acquired knowledge about integrated planning, organization and management of occupational asky and health in construction, occupational asky and health requirements, mandatory documents and procedures on the concept of total quality, quality procedures on the concept of total quality, quality essence, their application in construction entryprine. Obtain adults, but once generate the non- ling of the application in construction entryprine. Data shalls, but once generate the non- ling of the application in construction assess the safety and health measures to make tool health and adky, the encloremental decision to carry out construction projects in view of sustainable security aspects and influences people.	1. The concept of environmental protection. Control and assessment of environmental impact. 2. Environmental legal acts. 2. Environmental isopant control and agreements. 22. European legal acts 23. The legal act of Ulturainal. Environmental issues in the existing technical regulations for construction in Liftuania. 3. Integrated environmental of the reduction methods. 31. Pollution of the strates were growth-activational and municipal wasts. 32. So Journal of the strates were quotedware and undergroundwater. Weter, household and industrial waste water cleaning 32. Contempation of the strates were quotedware and undergroundwater. Weter, household and industrial waste water cleaning 32. Contempation and existing were quotedware and undergroundwater. Weter, household and industrial waste water cleaning 5. Clean construction and exological building. 5. Clean construction and exological antiverse. 5. Occupational label were and have an explained or construction sites 7. Occupational label with and stately legal regulation in the construction site 1. Destruing methymental builtings. 10. Ensuring environmental builtings in construction and exological anti-environments for workplace in statellation on construction site 11. Social dialogue in the enterprise by providing site and healthy working conditions 12. Academia and occupational dialogue and security providing site and healthy working conditions 12. Academia and construction site 13. Sustainable Construction Safety Modeling and continuous improvement
Natural Resource Processing Technologies	9	To provide knowledge about the sustainable processing of natural resources of various origins into biomedical materials or theirs components using standard and modern methods and technologies. multi-web biorefining concept and principles of circular economy.	Knowledge is gained about the suitability of natural resources of various origins and processing technologies initio broadcalm materials of their components. Ability to select suitable technological processes, equipment and conditions with a suitable natural origin sources. It is possible to evaluate the natural origin sources. It is possible to evaluate technory and sustainability of processes. Joi dentify parameters for process and product control for tabley, processes protect the environment.	Suitability of natural resources (NR) of various origins to produce biomedical materials (BM) or their components C. Gi preparation for processing bioloxing environmental, microbiological pollution and human health protection principles S. Shandrai and more IG processing in the biomedical materials or their components Processing of a chinaria origin in biomedical materials or their components Processing of a chinaria origin in biomedical materials or their components Processing of an origin origin the biomedical materials or their components Processing of and an origin origin the biomedical materials or their components Processing of and an origin on thomedical materials or their components Processing of and an origin on the biomedical materials or their components Processing of and and products the biomedical materials or their components Processing of materialize and harding of their biomedical materials or their components Processing of materialize and harding biomedical materials or their components Processing of moreas parametes to the liabitor of biologically adre components It. Properties of biologically adre components Lodentation of process parametes to the liabitor of biologically adre components Lodentation of clinus bits or the liabitor of biologically adre components Substate processing of Cline bits or their components Lodentation of analysis of the biolized on biologically adre components Substate and biologically adre components Substate processing of Cline bits or their components Substate processing of Cline bits or their components Substate processing of Cline bits or their components Substate and biologically adre components Substate processing of Cline bits or their components Substate processing of Cline bits or their components Substate and biological biological biolegical biolegical biolegical Substates Substates Substates Substates Substates Substates Subs
Solid Waste Management and Resource Recovery Technologies	6	To obtain consistent knowledge about the sources of the solid waste, its quantities and influencing factors, properties of solid vaste, the main methods and facilities for treatment of solid vaste, its exources recovering feasibilities in waste management process.	Sources, types and composition of solid wasts. Physical, chemical and biological properties of wasts. Collection and transportation of solid wasts. Solid wasts per-treatment, mechanical bebogical wasts teachemics. Thema wasts treatment. Disposal of wasts to landitis. Landitis exploitation and after care. Waste management legislation and strategies. Feasibilities for resources recovering from waste,	Main engineeting, economic and legal aspects for solid waste management and resources recovering Waste Generation Prevention and Minimization Waste Collection and Transport Methods in Terms of Resource Recovery Fessibilities Mechanical Waste Separation and Treatment S. Waste Recycling S. Biological Waste Treatment T. Waste Michael Treatment (MBT) System and Procured Materials S. Daminal Waste Stabilisation S. Daminal Waste Stabilisation S. Daminal Waste Stabilisation To. Recovering and Eraction of Methods Instraints for Waste T. Waste Linding and Landillis Exploitation T. Vaste Linding and Landillis Exploitation T. Vaste Careford Maste Management System
Semester Project	6	To obtain practical skills in environmental impact assessment of planned economic activity.	Students are acquainted with the principles of environmental impact assessment process. Information about the main stages of environmental impact assessment process as well as procedures, perfocil impacts, to choose all many assessment approximation and the information and apply obtained choose all many assessment environmental impact assessment documentation are guined. By accomplishing group tasks teamwork skills are formed.	The concept of the environmental impact assessment, its object, process and participants. 2 Productives of environmental impact assessment for planned economic activity (postures of environmental impact assessment for planned economic activity (postures). 3 Electronal information about planned comonic activity (postures). Keel and energy consumption, raw materials, etc.). 4 Technological processes. Comparison of technologies suggested for planned activity with best available methods. 5 Visate generation and treatment at planned economic activity (posture). 7. Evaluation of possible environmental impact on tests. 7. Evaluation of possible environmental impact on tests. 8. Evaluation of possible environmental impact on tests. 9. Evaluation of possible environmental impact on tests. 9. Evaluation of possible environmental impact on tests. 9. Evaluation of possible environmental impact on tests. 10. Analysis of latenthates (time, plano, technological, environmental, etc.) for environmental impact minimization. 12. Description of problems.
Pollution Prevention and Management	6	To acquire theoretical knowledge related to pollution prevention and risk management by integrating the principles of sustainable engineering, legal and managerial measures. To device practical sills enabling to pricement the product manufacturing process life cycle assessment and their modifications.	Knowledge on the concept of pollution prevention, requirements of the environmental management system, principles and bold of the industral pollution control and risk management is acquired. Ability to carry out product or process like cycle assessment using a computer software is build. Acquired knowledge enables to carry out improvement of products and manufacturing processes.	Sustainability principles in industry and society. Simironmental Management System. Sociopt of Pollution Prevention. A Pollution Prevention Techniques. Sindustal Pollution Centrol and Risk Management. Socioptesyn Strategies and Implementation. T. Methodogy of Life Cycle Assessment for Pollution Prevention and Conservation of Resources. Performance of Life Cycle Assessment Using Software.
Environment and Society	6	To develop the understanding and ability to discuss the environmental barges of modern socialises, the social consequences and causes of climate change, the social causes of the environmental problems and the prospects for possible solutions.	identity, main environmental problems, their anthropogenic causes and solutions, main	SCOLU INDURY ON EXMIRONMENTAL TOPICS: INTRODUCTORY LECTURE SUMPONIENTIAL COVERNMENT SUMPONIENTIAL COVERNMENT SUMPONIENTIAL COVERNMENT SUMPONIENTIAL COVERNMENT SUMPONIENTIAL EXPONIENTIAL SUMPONIENTIAL EXPONIENTIAL SUMPONIENTIAL INTRODUCTORY SUMPONIENTIAL
Building Energy Performance Predictions and Design	6	To develop abilities to analyze complex solutions of building architecture, income (imake, energy consumption by applying numerical modelling tools.	The module provides knowledge and skills that allow assessing the building has that allows, asselding a combination of engineering systems and revewable energy sources, assessing the essential principles of designing engineering systems and skills in designing these systems are provided.	E. Euroge efficiency of buildings, every supply and consumption E. Esteartial performance incidences of the building A. Heat building A. Heat buildings A. Heat buildings S. Types and main elements of vertification of energy needs 4. Indoor climate of buildings S. Types and main elements of vertification systems (case studies, examples of solutions) 6. Types and main elements of vertification systems (case studies, examples of solutions) 7. Air cooling and conditioning, basic elements of systems (case studies, examples of solutions) 9. Water management systems (case studies, examples of solutions) 11. Passive energy saving measures in buildings 11. Passive energy saving measures in buildings 12. Theory of systems thinking, solving complex tasks with the help of systems engineering 14. Parameter optimization functions for energy efficiency of buildings

		To provide knowledge about additive manufacturing and other prototyping technologies, to develop the ability analyze rapidly changing conditions in manufacturing environment,	Students learn to understand principles of application of modern manufacturing processes. Provided knowledge about additive manufacturing technologies	Principles of additive manufacturing technologies and used materials 1.1 Additive technologies, principles, terminology, standards 1.2 Classification of technologies (polymers, netals, ceramic, composites)
		and to evaluate the advantages and disadvantages of these technologies in economic and environmental protection	and other prototyping methods. Skills for independent modelling of new products and them production by	1.3. Stages of additive manufacturing 1.4. Used materials and their properties
		aspects	using additive manufacturing are developed.	1,5. Design for additive manufacturing 2. Additive manufacturing technologies
				2.1. Binder jetting processes 2.2. Direct energy deposition processes 2.3. Material extrusion processes
				2.5. Material extrustor processes 2.4. Material jetting processes 2.5. Powder bed processes
Additive Manufacturing and Prototyping	6			2.6. Sheet lamination 27. Val photopolymerization processes
				2.1. Van Interport autom processes 3.2. Circumstances of the application of additive technologies 3.1. Rapid tooling technologies
				3.2. Direct digital manufacturing 3.3. Additive manufacturing in medicine
				3.4. Economic justification for the use of prototyping technologies 3.5. Environmental protection requirements using additive technologies
				3.6. Supply chains in additive manufacturing organizations 3.7. Reverse engineering
		To gain knowledge about the green, safe and quietly	Acquired knowledge of alternative fuel and	1. The harmonious development of the technology behind the vehicle
		operating vehicles deployed technologies and capabilities to assess their impact on the operation of the engine, emissions	powertrains, their types, features, characteristics and technological aspects of use in vehicles. To apply	1,1. Green, safe and quietly running various types of vehicle 1,2. Intelligent transport systems and services
		and energy efficiency.	methodics of reserach by alternative fuels and trains powered vehicles and estimations impact of the technological solutions on the dynamics, engine	2. Sustinable strategie of alternative fuels in the transport systems 2.1. Alternative fuels: types, properties, characteristics and use in vehicles 2.2. Compressed natural gas
			performance and energy efficiency.	2.2. Compressed natural gas 2.3. Liquefied petroleum gas 2.4. Liquefied natural gas
				2.5. Types of gaseous systems, requirements to gas equipment 2.6. Analysis of operation of internal combustion engine using gas
				2.7. Structural control diagrams of gas delivery systems 2.8. Biofuels and hydrogen; production, properties, characteristics and use in vehicles
Alternative Fuels and Hybrid Powertrains in Vehicles	6			2.9. Analysis of operation of internal combustion engine using biofuels and hydrogen 3. Electric vehicles: types, technologies and infratsructure
				3.1. Technologies and development trends of electric vehicles 3.2. Hybrid Electric Vehicle
				3.3. Battery Electric Vehicle 3.4. Range Extended Vehicle
				3,5. Plug-in Hybrid Electric Vehicle 3,6. Urban vehicles
				3,7. Hybrid vehicles on the basis of a conventional vehicles 3,8. Dynamics of electric vehicles and energy efficiency
				3.9. Infrastructure management models of electric vehicles
		To provide an understanding with a focus on advanced	This course is concerned with the advanced industrial	1. Development and perspectives of advanced industrial biolechnology.
		industrial biotechnology achievements, to explain industrial integrated bioprocess stages and bioeconomy current	biotechnology achievements and perspectives, the students are taught to understand the stages of	1. Development and perspectives on advanced industrian independent independent 1,1. Valuable bioproducts of industrial biotechnology. 12. Industrial integrated bioprocess stages.
		developments, to analyze the production of organic acids, amino acids, sugar alcohols, vitamins, bicantioxidants,	industrial integrated bioprocess, the production of organic acids, amino acids, bioantioxidants,	13. Production technologies of biochemicals, biomaterials, biopolymers. 2. Organic (propionic, sorbic, citric, ascorbic) acids, amino acids production.
Production Technologies of		biopolymers, biochemicals, to gain understanding of natural phytochemicals extraction and fractionation, to become	biopolymers, biochemicals, extraction of natural phytochemicals and fractionation from plant materials,	 Production of sugar alcohols (manitol, xylitol, sorbitol) and scented materials. Production of vitamins, antimicrobial components/bioproducts, bioantioxidants, functional proteins.
Biotechnological Products	6	aware of bioproducts technologies from renewable resources, to analyze technologies of biodiesel production	are taught to gain an understanding of bioproducts production technologies from renewable resources,	 Extraction and fractionation of natural bioactive components from plant materials. Production technologies of bioproducts from renewable resources.
		and to evaluate future technologies.	students are able to obtain further information about production technologies of biodiesel and to evaluate	7. Technologies of biodiesel production and future technologies.
			future technologies.	
		To provide knowledge about basic principles of electric	Acquires knowledge of electric drive mechanics (drive	1. Main conception.
		drives work and to develop skills necessary for chooseing elements and systems according to the basic requirements	structure and statics and dynamics of mechanical systems), mechanical characteristics and speed	1.1. Conception of electric drive (ED) and history of development. 1.2. Functions and struction of ED.
		of the technological process using standards of electrical equipment, the latest achievements of engineering, licences,	control of DC, AC and stepper drive structures and speed control, statics, dynamics and control (open and	1.3. Tendencies of ED development. 1.4. Tasks of electric drive course.
			speed control, statics, dynamics and control (open and closed systems) of "converter-motor" systems. The students will be able to create load diagrams of an	 Tendencies of ED development. Tarals of electric drive course. Mechanics of electric drive. Kennako degrame of motion transmission for electromechanical systems. Mechanical coordinates and parameters of ED.
		equipment, the latest achievements of engineering, licences, evaluating importance of drives quality, reliability, energy	speed control, statics, dynamics and control (open and closed systems) of "converter-motor" systems. The students will be able to create load diagrams of an electric drive, to select and design an electric drive that uses electricity, saves electricity, is safe and	 Tendencies of ED development. Tarals of electric drive course. Mechanics of electric drive. Kennaho (augman of motion transmission for electromechanical systems. Mechanical coordinates and parameters of ED. The main equation of ED motion. Zentering of austic troppa and neutral moment for ED.
		equipment, the latest achievements of engineering, licences, evaluating importance of drives quality, reliability, energy	speed control, statics, dynamics and control (open and closed systems) of "converter-motor" systems. The students will be able to create load diagrams of an electric drive, to select and design an electric drive	 Tendencies of ED development. Tasko of ledic drive course. Mechanics of electric drive. Kinematic diagrams of motion transmission for electromechanical systems. Mechanical coordinates and parameters of ED. The main equation of ED motion. Sheffering of static torque and inertia moment for ED. Alterding of static torque and media moment for ED. Sheffering of static torque and media moment for ED. Sheffering of static torque and media moment for ED. Sheffering of static torque and media moment for ED. Sheffering of static torque and media media mediatilital mechanisms.
		equipment, the latest achievements of engineering, licences, evaluating importance of drives quality, reliability, energy	speed control, statics, dynamics and control (open and closed systems) of "converter-motol" systems. The students will be alto to create load diagrams of an electric drive, to select and design an electric drive that uses electricity, saves electricity, is safe and ecological in accordance with the requirements of the	1.3. Tradencies of ED development. 1.4. Trade of device drive course. 2. Mechanical grame of motion transmission for electromechanical systems. Mechanical coordinates and parameters of ED. 2. The main equation of ED motion. 2.3. Refleting of attack torque and interfa moment for ED. 2.4. Motios of ED mechanical part. Mechanical part of ED as control object. 2.5. Vivivi conditionant despect-forque characteristics of industrial mechanisms. 26. Compare principles for speed-forque characteristics of industrial mechanisms. 27. Load diagrams and their constructions. Mobir and industrial mechanism common work ch-k. 27. Load diagrams and their constructions.
		equipment, the latest achievements of engineering, licences, evaluating importance of drives quality, reliability, energy	speed control, statics, dynamics and control (open and closed systems) of "converter-motol" systems. The students will be alto to create load diagrams of an electric drive, to select and design an electric drive that uses electricity, saves electricity, is safe and ecological in accordance with the requirements of the	1.3. Tradencies of ED development. 1.4. Trades of electric drive course. 2. Mechanical grame of motion transmission for electromechanical systems. Mechanical coordinates and parameters of ED. 2. The main equation of ED motion. 2.3. Refleting of static troppa and transmission for electromechanical systems. Mechanical coordinates and parameters of ED. 2.4. Motion of ED mechanical part. Mechanical part of ED as control object. 2.5. Vork conditions and speek-foruge characteristics of industrial mechanisms. 26. Compare principles for speek-foruge characteristics of industrial mechanism. 27. Load diagrams and their construction. 28. Acceleration and their construction. 29. Conditions of ED weak and their characteristics.
		equipment, the latest achievements of engineering, licences, evaluating importance of drives quality, reliability, energy	speed control, statics, dynamics and control (open and closed systems) of "converter-motol" systems. The students will be alto to create load diagrams of an electric drive, to select and design an electric drive that uses electricity, saves electricity, is safe and ecological in accordance with the requirements of the	1.3. Tradencies of ED development. 1.4. Trades of electric drive course. 2. Mechanical grame of motion transmission for electromechanical systems. Mechanical coordinates and parameters of ED. 2. The main equation of ED motion. 2.3. Reflexing of attack torque and interfainment for ED. 2.4. Motiod of ED mechanical part. Mechanical part of ED as control object. 2.5. Vink conditionant dispect-forque characteristics of industrial mechanisms. 2.6. Compare principles for speed-forque characteristics of industrial mechanisms. 2.7. Load diagrams and their construction. 2.6. Compare principles for speed-forque characteristics of industrial mechanisms. 2.6. Compare principles for speed-forque characteristics of industrial mechanisms. 2.6. Conseque their construction. 3.7. Load diagrams and their construction. 3.1. Conditions of ED work and their characteristics. 3.1. Conditions of ED work and teir distructeristics. 3.1. Specializations. 3.1. Constitions of ED CED speed-torque characteristics.
		equipment, the latest achievements of engineering, licences, evaluating importance of drives quality, reliability, energy	speed control, statics, dynamics and control (open and closed systems) of "converter-motol" systems. The students will be alto to create load diagrams of an electric drive, to select and design an electric drive that uses electricity, saves electricity, is safe and ecological in accordance with the requirements of the	1.3. Tradencies of ED development. 1.4. Trade of device drive course. 2. Mechanical grammer of motion transmission for electromechanical systems. Mechanical coordinates and parameters of ED. 2. The main equation of ED motion. 2.3. Reflexing of attact torque and interain moment for ED. 2.4. Motiols of ED mechanical part. Mechanical part of ED as a control object. 2.5. Vivic conditions and speek-forque characteristics of inducitial mechanisms. 26. Compare principles for speek-forque characteristics of inducitial mechanisms. 27. Load diagrams and their construction. 27. Load diagrams and their construction. 28. Acceleration times of ED. Chaptel and graphoanalitic solution of ED motion. 3.1. Conditions of ED work and their characteristics. 3.1. Providinities CO: ED speek-forque characteristics. 3.2. Preclamines CO: ED speek-forque characteristics. 3.3. A motor of DC: ED as a control object. 3.4. Acquiance OID ED in different technologies.
		equipment, the latest achievements of engineering, licences, evaluating importance of drives quality, reliability, energy	speed control, statics, dynamics and control (open and closed systems) of "converter-motol" systems. The students will be alto to create load diagrams of an electric drive, to select and design an electric drive that uses electricity, saves electricity, is safe and ecological in accordance with the requirements of the	1.3. Transforment 1.4. Transforment
		equipment, the latest achievements of engineering, licences, evaluating importance of drives quality, reliability, energy	speed control, statics, dynamics and control (open and closed systems) of "converter-motol" systems. The students will be alto to create load diagrams of an electric drive, to select and design an electric drive that uses electricity, saves electricity, is safe and ecological in accordance with the requirements of the	1.3. Transforment 1.4. Transforment
		equipment, the latest achievements of engineering, licences, evaluating importance of drives quality, reliability, energy	speed control, statics, dynamics and control (open and closed systems) of "converter-motol" systems. The students will be alto to create load diagrams of an electric drive, to select and design an electric drive that uses electricity, saves electricity, is safe and ecological in accordance with the requirements of the	1.3. Transderide of ED development. 1.4. Task of electric drive course. 2. Michanics of electric drive. 2. The main equation of ED motion. 2.3. Refering of static tropus and interfamment for ED. 2.4. Motion of ED mechanical part. Michanical part of ED as a control object. 2.5. Vink conditions and speek-foruge dranateristics of industrial mechanism of michanism common work ch-k. 2.7. Load diagrams and herir construction. 3.6. Conditions of ED work and their constructions. 3.1. Conditions of ED work and their constructions. 3.1. Conditions of ED work and their constructions. 3.2. Proceedings of CD Spared charge dranateristics. 4.2. Providenties of CD CD Spared charge dranateristics. 4.3.2. Proceedings of CD Spared charge dranateristics. Advances and their constructions. 3.4. Spatiance of DC ED spared charge dranateristics. Advances and their constructions. 3.5. Providenties of AED Im motioning and braining conditions. 3.6. A motion of AED B and transtructions. 3.6. Spatiance of DC ED spared charge dranateristics. 3.7. Spatiance of AED ED in officing and braining conditions. 3.6. A motion of AED B and transmission. 3.7. Applaince of AED ED in motioning and braining conditions. 3.6. A motion of AED B and transmission. 3.7. Applaince of AED ED in motioning and braining conditions. 3.8. Spared-kargue drade ED in motioning and braining conditions. 3.8. Spared-kargue drade ED in motioning and braining conditions. 3.8. Spared-kargue drade ED in motioning and braining conditions. 3.8. Spared-kargue drade ED in motioning and braining conditions. 3.8. Spared-kargue dramateristics of multimoter ED. 4. Procipties of ED and their theorhologies. 3.8. Spared-kargue dramateristics of multimoter ED. 4.1. Control or conditions fase, mmatter erestience and vortioge.
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Electric Drives	6	equipment, the latest achievements of engineering, licences, evaluating importance of drives quality, reliability, energy	speed contol, statics, dynamics and control (open and codes dystems) of converter-moder Systems. The students will be able to create load diagrams of an electric drive, to steel and design an electric drive that uses electricity, saves electricity, is safe and ecological in accordiance with the requirements of the technological process.	 Tandardes of ED development. Ta tasko of electric dive course. Methanics of decitic dive. I. Krematic diagrams of motion transmission for electromechanical systems. Mechanical coordinates and parameters of ED. The main equation of ED motion. Sa Methion of Static travpa and interfa moment for ED. Methanical static travpa and interfa moment for ED. Motion and Speeck-forup duratandentistics of industrial mechanisms. Nobr and industrial mechanism common work ch-k. Construction and speeck-forup duratandentistics of industrial mechanisms. Construction and decidenticity of the analysis of the analysis of the analysis. Construction and decidenticity of the analysis of the analysis. A motor of CD Davis and distribution of engry. Dimensional and relative dwardsrifts. Providinities of Duration and traveline dwards. A motor of CD Davis and distribution deviation conditions. A motor of AC ED as a control object. A collision of CD Davis and distribution deviation conditions. Providinities of Duration distribution deviation conditions. A providinities of Duration deviation conditions. A motor of AC ED as a control object. Construction of CD Duration distribution deviation conditions. A control of conditinates and its purpose. Main parameters of conditions control. Construction of CD Duration deviation distribution dispars. Speech corque characteristics. Construction of conditial control. Construction of control subject. See Deviation deviation distribution dispars. Speech corque characteristics. Construction control, subject control object. A control of Control, subject control object. Construction control angeline. Construction control, subject control ob

Financial Technology Solutions	6	To provide knowledge about framarial technology solutions for business and develop skills to analyze the socia- economic impact of financial technology to financial services and financial markets; introduce financial regulation and the ecceystem.	During the ocurse, the methods of financial technologies. He positionis of the imposition and evaluation in practice are analyzed, the ecceystem, regulatory environment, and the principles of money laundering prevention are analyzed.	
Introduction to Applied Chemistry	6	To expire knowledge about the essence of higher education, July protects in the field of chemistry and the education of the proposed on the did of chemistry and the protect of the protect of the state of the state of the of develop abilities to staty and graninal competences. allowing to understand content of statelies, career possibilities, requirements of cardenic times, To acquire the minimum of concepts, methods and approaches defining the essence of sciencific research. To get acquiresite with the structure and peculiarities of the chemistry industry, the range of products, future trends, principles of green chemistry.	Knowledge about higher education and studies essence in the held of chemistry and the secility of essence in the held of chemistry and the secility of studies is satisfied is possible to understand value of solarities in the studies of the second studies of preparing study tasks with accordance to preparing study tasks with accordance to a team and studying individually are nurtured.	
Quality Management	6	To be able to apply essential including of quality management, quality daming, inglementation and evaluation abilities to develop organizations, to solve particular quality problems, analyzing the environment of the organization.	Essentia knowledge of quality management and the bality to apply if in the practice of organization activities in the development and implementation of quality management systems is acquired, i.e. identify quality management problems and their possible causes, analyze processes and select appropriate problem solving methods.	1. The sessor of quality management 1. The sessor of quality management 1. The sessor of quality management 1. 2. Evolution of quality management 1. 2. Evolution of quality management 2. Quality more instantial problem solving 3. Outforward quality provement and quality more senser and quality more senser and quality continuous set of the state of the s
Communication Product Development Project 1	6	To develop the ability to identify relevant problem areas of communication or identify tasks to be addressed, to develop the idea of a product / service in the field of communication and to carry out a preliminary sustainability assessment	The module develops creativity, systemic thinking, tamanoirk competencies, students are taught to generate and select ideas relevant to the communication specialisfs work, to effectively present them, to evaluate sustainability and viability, design thinking is used as main teaching/learning approach.	1. Team building and teamwork principles 1. Team building: Role sharing: Decision making models. Team creativity and innovation factors 12. Interpresonal competence. Communication Psychology, Molvation; Control escution 12. Interpresonal competence. Communication in the group; IT bols for group work organization 14. Ethics in working with people. Respect for diversity, bierance, and non-discrimination 15. Ethics and methanics of stema profromance evaluation. Athlivus and activities of virtual teams. Team upgrades 2. DecKe GENERATION AND SELECTION 2. Onervise of proferms or tasks to be addressed in the field of communication 2. Generating ideas, brainstorming, creativity lexinologies 2. Analysis of nonzement and ther interests and expectations, analysis of types and characteristics of communication 24. Acideticn, organization and selection of information; Narrowing the problem and choosing ideas / ideas 25. Search for organization 3. Selected i datas subjects 4. Description and publicity XSESSMENT 4. Description and publicity and selection
Food Biochemistry	3	To provide essential knowledge of the dispetion, metabolium and biosynthesis of specific food compounds, including their relationship to the environment behaviogra and nutlition, and to develop the habitly bargely knowledge about the location, principles and mechanisms of digestion and metabolicits, the note and potential of installand microbiome and technological microorganisms.	Essentia trovledge of the digestor, metabolism and biosynthesis of bod compandis is exaptive, including their relialorship with the environment, technology and unitrion. The students will be able to apply incovidege of the location of digestion and metabolism of local components in the human or animal body, the update of lood previous leals, the predictiones and mechanisms of metabolism under aerobic or anarobic conditions in solits, the mechanisms by which these processes are regulated, the disorders of interbolism, and the original procession and microbiome and technological microorganisms.	1. Introducton. The importance of photosynthesis in the food chain. 2. Bathabisen of substances and energy in the body and their velationarity to the environment 3. Carbohydrate digestion, metabolism, metabolic disorders, the role of the microbiones and technological micro-organisms. 4. Specifics, proteins and regulation (bit dispersion and metabolism, synthesis of specific styl pacific style pacifi
Urban Sociology	6	To develop knowledge about the interaction of human and environment in urban context, the hisbinal formation of cites, thereis of urban sociology, and to gain competencies in analysis of social processes of contemporary cites, applying sociological research in the process of urban development planning.	Student will understand the interaction of human and environment in urban context, will have know and understand historical development of locks, will get acquarited with the theories of urban sociology, all be to analyze acquarited with applied sociological table to analyze acquarited with applied sociological exacts. In urban development and planming and be able to discuss the future perspectives of contemporary clies.	Object, preconditions of beginning and meaning of urban sociology 2. The origins and development of otes: historical perspective 2. Indique cites 2. Antique cites 2. Antique cites 2. Antique cites 2. Antique cites 2. Solutions of unbasital cites 3. Theories functions of unbasital cites 3. Theories functions cites and cites 3. Theories cites cites and cites and cites 3. Socio-sperivological tend 4. Social processes of contemporary cite 4. Social processes of contemporary cites 4. Social processes of contemporary cites 4. Social processes 4. Unbasital cites 5. Produme causes 4. Social processes 4. Social processes 4. Social processes 4. Social processes 4. Social cites 5. Socion cites and consequences 4. Social cites 5. Antionemental condition, transportation 5. Apriles sociological research in the process of urban development 7. Vision of future cities
Protective Relaying and Automation of Distributed Generation Systems	6	To teach comprohensive knowledge about protechere relaying and automatic devices of distributed generation systems that allow integration renewable sources into power systems. The source quantife with requirements, principles, structure and realization means of these devices. The specific aims are as which yeseled devices of relay protection and automation for power lines, transformers, generators, motors and distribute generation system. (active distribution network) and estimate their influence on reliability and quality of power supply.	Students are taught to understand the purpose and functions of reliary protection and aubination devices and their role in distributed generation systems (aubie distribution tevolors). The storedlage are delivered on specific principles and conditions of operation structure and schematic realization. The abilities are developed in choosing reliary protection, automatos and control devices that an applied for power lines, transformers, generators and mobins connected to and control devices devices. The abilities are developed in choosing reliary protections and automation conditions of active distribution networks that are necessary for belaction of reliary protection and automation devices.	1 Perularity of functioning of distributed generation system and the role of relay protection and automation/ 2. Requirements applied to relay protection and automation devices. 3. Relay protection of prover lines of distribution networks with different configuration. 4. Relay protection of instributions. 5. Relay protection of instributions. 6. Relay protection of instributions. 7. Automatics and relay protection of generators and motions. 8. Values controllers of instributions. 9. Values controllers of transmittening. 9. Values controllers of transmittening. 9. Values controllers of transmittening. 1. Normal and Rulad operating conditions in distributed generation systems and methods of their calculations. 1. Substation control systems 2. Concertion protocols and SCADA systems

Building Services Systems	3	To obtain competent about heating, ventilation, water supply and sewage networks, renewable energy systems and their operation and design principles.	The knowledge about engineering systems of the building and surrounding, their destination and functions, also standard requirements are obtained. The ability to sale contrain type and standard or the and valets supply, also severage rets and systems to design and complete al elements of the systems is developed. Information about peculiarities of outdoors engineering systems designing, the main normalive requirements, used equipment and functions of them is accumulated and reclaimed.	1. WATER SUPPLY AND SEWERAGE 1.1. Buildings water supply and sewage systems, schemes, equipment and materials. 1.2. The building water supply and sewage systems, schemes, materials, equipment, water sources, water treatment plants. 2.1. The soft the building heating systems, schemes and installations. 2.2. Building heating systems, schemes and installations. 2.2. Building heating systems, schemes and installations. 2.3. Heat generation systems. The distribution in buildings. 2.4. Design of heating system. 3.2. Section of the BuilDNGS 3.1. Classification of verifiation systems. Equipment and materials for ventilation systems. 3.2. Section of the BuilDNGS 3.1. The ventilation system Schemister and materials for ventilation systems. 3.2. Design of ventilation system. 3.3. The ventilation system. Section schemes and installations. 3.3. The ventilation system Schemister and materials for ventilation systems. 3.3. The ventilation system. 3.4. Design of ventilation systems. 3.5. The purpose of air conditioning systems, dassification, structure, design steps. 3.5. The purpose of air conditioning systems.
Polymer Materials and Technologies	6	To introduce basic knowledge concerning basic definitions of polymer science and normadiature; to study different methods of polymers; ho introduce knowledge concerning digardation and stabilization of polymeric methods as introduce knowledge concerning application of polymeric waste; to introduce knowledge concerning application of polymers for devices of organic electronics.	Students are taught to understand and be able to explain basic definitions of polymer science, polymer dashication and normendature, polymer synthesis (addition, step-growth polymersztation, copolymeirzitation, eaclinus of polymers, physical and chemical degradation of polymers, physical and chemical degradation of polymers, physical and chemical degradation of polymers, physical and polymers, properties of polymeric materials as applications of oplameric materials as of devices and technologies of arganic electronics.	1. Basic definitions of polymers science and nomendature 2. Radical polymerization 3. Radical polymerization 4. Step-growth polymerization 6. Reactions of macromolecules 6. Reactions of macromolecules 10. Liquid cystalline polymers 11. Liquid cystalline polymers 12. Representations 13. Mechanical properties of here instructure 15. Repurition of polymers on their structure 15. Repurition of polymers 16. Application of polymeric materials 17. Application of polymeric materials 18. Application of polymeric materials 19. Applicatio
Methods of Protolyping	3	To provide knowledge about protokyning methods, to develop princiding rokolite knowledge for develop princiding rokolite knowledge for develop methods and materials, to implement the culture of recycling, re-using, re-making obsolete objects in protokyping the new ones.	Sudante will be able to apply different prototyping methods and methods for primary and whitned menufacturing technologies. The practical abilities to manufacturing technologies, the practical abilities to and materials - from hadilrong prototyping bolds and materials - from hadilrong prototyping bolds who latest 20 printing and CNC technologies supporting the "whitevention and is used a lablows as new ratherials is acquired. The manual capability and the e-make, re-use mindeal for developed, therefore, it is practice-criented.	In Introduction to the course Protopogn ends and materials Protopogn with pager, cardioxid, foam Protopogn with agent cardioxid, foam Protopogn with and connent Protopogn with head Protopogn withead Protopogn with head Protopogn with head Protop
Smart Electric Power Systems	6	To give the skills of calculations the balancing of powers and controlling demand in smart leaderic power system to with a various number and power capasity revealed be power sources generation units are conclude. To learn the projecting of smart bedric system's dements: energy strage units, voltage controllers, reactive power compensators with assessing technical, reliability and quality securing takes. The specific am is to forecast the amounts of information ware and leadornumication network capacities in smart electric system.	Students are taught to understand the purpose and structure of amat power energietic systems, to calculate power fast and tus voltages using computer aid metods, to design projects of consistents demand controlling and generator connecting to networks schemes, to solve power quality and electromagnetical compatibility problems. The problems of detection and estimating of emergency regimes are solving. The anounds of information equipment and communication networks are calculating.	Conception of smart systems and networks Z Smart energy meters Si Smart control of decircly demand Micrograf decircly demand Micrograf decircly demand Submarc control of power system and comunication systems Si Earch control software and hardware Salancing of networks demangy sources Direct countel systems Direct countel system (Starto Control of Starto Region) Companisation of read-te power (STATCOM compensation) 10. Compensation of control ingo (Control) Companisation of read-te power (STATCOM compensation) 11. General schematic of controling of smart systems 2. Environmental protection
Healthy Lifestyle	6	To provide knowledge about lifestyle interventions, the role of nutrition and physical activity in health, the interaction of a healthy lifestyle with the environment and to develop healthy lifestyle skills.	Achieving involvedge about flexible interventions and its changing methods, about nutrition role for health, principles related to metabolism of nutritients and energy sependiture in human organism, flood products values and tood nutrition metally principles. Assimilation forms of physical activity in health education techniques, he impact of physical activity influence on body functions and disease prevention. Alse to analyze and choose the means to lifestyle interaction with the environment.	
Technologies for Industrial Design	9	To provide knowledge of the processing, johing and surface coafing behnologies for metals, plastics, ceramics, composites, and or develop the competences required to select materials and production technologies in relation to product design, function, process cost and diraular economy principles.	The knowledge about main processing, joining and finishing technologies for various materials is acquired. The student will be able to each equipment and production methods depending on product design, quality, process cost and anvironmental impact. The student will be able to describe recycling technologies of materials in order to interpret their environmental impact.	INTRODUCTION INTRODUCTION INTRODUCTION I. Materials and design I. Advanced metals in product design I. Advanced plastics in product design I. Advanced plastics in product design I. Acompositions of materials and their formation 2. METHODS OF MATERIALS SHAPING 2. Lot form solid 2. Arbitration for products 2. Arbitration products 2. Arbitration products processing methods: additive manufacturing 2. Arbitration products processing methods: additive manufacturing 2. Arbitration products or constrained additive manufacturing 2. Arbitration products or costing methods: additive manufacturing 3. Arbitration products or costing methods: additive manufacturing 4. LEAN MANAGEMENT SYSTEM IN THE CONTEXT OF MASS PRODUCTION
Testing and Diagnostic Systems	6	To provide knowledge about testing and diagnostic techniques of automotive and electric vehicles electronic systems.	Provides knowledge, necessary to diagnose automotive electronic problems, to use of electrical testing eagurents. Subserti are trained to classify and evaluate measurement methods, errors of measurement systems. Learning he main electronic testing systems totolos, operanting butming, and testing systems totolos, operanting butming, and electronic systems, testing modula of electronic systems. Iste diagn and coordinator. Taught to clanging maintenance problems, use of service and diagnostics technique and equipment.	1. Introduction to the module, terminology, information sources 2. Vehicle Technical Information Systems 3. Objection: Concepts and Equipment 4. OBD IL: CEBD Self-Dagnostics Systems 5. Vehicle Data Interfaces 6. Powertrain control module systems diagnostic 7. Powertrain control module systems diagnostic 7. Powertrain control module programming and chiptunning
Technology of Wind and Hydro Energetics	6	To provide subuncts with honoredge about the use of wind energy and the outside of wind framework to belacticity grids and to assess the conditions of electricity quality.	The durbants are taught to understand the purpose and diruturics of what and hydro stations using to select wind and hydro stations types, to calcule the mounts of electricity, cover forst and the laws values, to design projects of wind and hydro stations connecting networks, is solve power quality and electromagnetical compatibility problems.	1. Presteha olvind energy 2. Constructions of wind stations 3. The metaing and forecasting of wind energy 4. Production from juthing 5. Parameters of electrical networks 6. Parameters of electrical networks 7. Fundamentals of electrical networks 9. Stranges of electrical network exclusions 8. Stranges of electrical network exclusions 9. Stranges of electrical networks 10. Protections 9. Stranges of electrical networks 11. Protections 12. Prove number of the stranges 13. Pydro power plant review and development 14. Constructions 15. Power and energy calculation of hydro power plants 16. Protectial integral and environs 16. Protectial integral and environs 17. Protectial networks 18. Prover and energy calculation of hydro power plants 19. Protectial integral and environs 19. Protectial integral energy calculations 10. Protectial energy calculations 11. Protectial energy calculations 12. Protectial energy calculations 13. Pydro stations 14. Protectial energy calculations 15. Prover and energy calculations 16. Protectial energy calculations 17. Protectial energy calculations 18. Protectial energy calculations 19. Protectial energ

Psychology of Groups and Effective Teamwork	6	To provide fundamental knowledge of team work and to teach skills to apply it in practice.	team decision making.	1. Conception of a team. 1. Conception of a team. 1. Conception of a team. 1.2 The norms and values of a team. 1.3 The functions of a team. 1.3. The functions of a team formation. 1.5. The norms and kind by a set of team of team of the set of team members. 2. Orders of team work and psychological harmony of a team. 2.1. Orders of team work and psychological harmony of a team. 2.2. Orders of team work and psychological and social-spechological compatibility. 2.4. Psychological index of team work. 3. Psychological index of team work. 3. Psychological index of the effect of polarization. 4. Devicins of team. 4.1. Team and individual decisions. 4.2. Phonological for group thinking. 4.3. The techniques of team decision making. 5. The problem of the evaluation of team work efficiency.
Building Physics	6	To know physics processes related with construction and exploitation of buildings. To take the knowledge to design and build energy effective, healthy and confort buildings.	Students are introduced to the basic physical processes operating to the building from outside, to the building envelope and notor, thist, the climate effects on buildings, physical properties of building envelopes and requirements to building indicor climate. Students know to calculate the thermal properties of building envelopes and needs of thermal energy for building, introducing energy-efficient buildings design requirements. Targel to perform the advances of the building envelopes and needs of thermal energy for building, introducing energy-efficient buildings design requirements. Targel to perform the advances of the building envelopes of building envelopes of the building envelopes of building acruations and tight technical laws.	Object of building physics Climate and its components Climate and its components Climate and its components Climate and received and the set of
Building Physics	3	To know physics processes related with construction and exploitation of buildings. To take the knowledge to design and build energy effective, healthy and conflor buildings.	Students are introduced to the basic physical processes operating to the building from outside, to the building environment of the dimate effects on buildings, physical properties of building environment of the physical properties of building environments for building indicor dimate. Buildings design environments, Taget the perform the advantage to building, environments, Taget the perform the calculation of maisture behavior of building environs. Taget the building environs and advantage environs. Physical building environs and advantage environs. Taget the building environs and the perform the calculation of maisture behavior of building environs. Taget the building environs and Taget technical laws.	1. Object of building physics 2. Clinela and microdimida. 3. Clinela and microdimida. 3. Potentia energy: Trepreduce. Heat transfer: Air humidity 4. Thermal and moisture properties of building methods) 6. Moisture behavior of building envelope. Unstable heat transfer 6. Moisture behavior of building envelope. Unstable heat transfer 7. Requirements for thermal insulation of building (envelope) elements. 8. Basics of building munimation 3. Basics of building munimation 3. Basics of building munimation
Refrigeration and Air Conditioning	6	To acquire basic knowledge about refrigeration and air conditioning technique, the main methods for getting low temporativers, bo able to besche hum men refrigeration and heating methods, bit be able to analyse air handling processes and methods, refrigeration and air conditioning systems and cycles	problems	I. Fundamentais of refrigeration and air conditioning I. Historical overview Zhethods of reaching low temperatures I.3. Refrigerants: designation, classification, handling and fluorinated substances I.4. Environmental publicem and regulation of refrigeration and air conditioning technique Zhefficeration: types, cycles, equipment and systems Z. Gas compression engiument (if cycles) Z. Compression: Retrievation and head torycles Z. Additionality of antiperation equipment Z. Additionality of antiperation and head pumper Z. Additionality of antiperation and head pumper Z. Z. Efficiency analysis of refrigeration and head pumper Z. Findpise of automation and control S. Befficure analysis of refrigeration and head pumper Z. J. Principise of automation and equipment S. J. Principise of automation and equipment S. J. Principise of automation and equipment Z. Additioning Z. J. Principise of automation and equipment Z. Additioning Z. J. Principise of automationing Z. J. Princise
Fundamentats of Refrigeration	6	To acquire knowledge about refrigeration technique, the main methods for getting tow temperatures, the main types of refrigerating, refrigeration systems and cycles.	Students are accuired the knowledge about operation of refrigeration equipment, methods for getting low temperatures, threadynamic processes and reverse temperatures, threadynamic processes and reverse students are able to calculate and analyze integraning students to calculate and analyze refrigerants from diagrams and tables, to estimate global warming effect of refrigerants.	Theoretical fundamentals of refrigeration Theoretical fundamentals of refrigeration Theoretical review Theoretical revie
Architectonic Development 2	12	To despen the theoretical knowledge and practical skills in the design of public buildings, to be able to capture the essential aspects of the object: the need for function, aesthetics, context, etc.	transport, etc.).	1. Architectural building design 2. Architectural building design 3. Comparison for a building design 3. Search of graphic expression for a building design 3. Comparison for deal argend 3. Architectural building design 3. Comparison for architectural design 3. Architectural building design 3. Ar
Self-Contained Power Supply Systems and Equipment	6	To take an extended knowledge about self-contained power supply systems, to acquire knowledge about processes occurred in self-contained power systems, and effective power generation in such systems.	Characteristic of self-contained power supply systems. Self-contained power generating sources, teoleted power systems. Power supply system for electrical vehicles. Integration of renewables. Use of energy accumulating equipment. Hybrid power stations in solated systems. Stability problems of self-contained power supply systems. Frequency and voltage control. Voltage quality. AC and DC power supply systems. Effective generation of electrical power. Reliability problems of power supply.	Inhoduction. Basics of power systems 2. Peoclimities of microgriptic and fields of their application 3. Peoclimities of microgriptic and fields of their application 3. Fechnological processes and characteristics of small capacity power plants 4. Fuel cells and their energy characteristics 4. Fuel cells and their energy characteristics 4. Back part of microgriptic and characteristics 5. Back part of microgriptic and characteristics 4. Sub-cell cells characteristics 5. Back part of microgriptic and characteristics 5. Back part of microgriptic and characteristics 4. Sub-cell cells characteristics 5. Back part of microgriptic and characteristics 4. Sub-cells of microgriptic and cells abbliny 4. Torview characteristics 4. Trainest stability of induction motors 4. Sub-cells of microgriptic and cells prover system 5. Satish of of microgriptic and cells prover system 9.1. Active power characteristics 9.1. Active power characteristics 1. Voltage and tells of sportson generation: Criterions of steady state stability 9.3. Trainest stability of power system 11. Voltage and tells prover system
General Chemistry	6	To get students acquainted with the main chemistry laws, chemical and electochemical processes, chemical compounds and the demical properties of the most instruction of the main statistic to develop the skills to solve departments, to provide the exceeded procession providences for the application of general chemistry invavidage in specially disciplines and various technical fields.	principles of chemical sources of electricity is acquired. Knowledge about the reasons of metal corrosion and its types is acquired. Ability to apply the effective methods of protection against corrosion is gained. Knowledge about fuel, biofuel and technically important materials is obtained.	12. Structure and progenties of compounds 12. Bin minimum of chamical processes 14. Chamical kinetics and equilibrium 15. Solutions and other dispersed systems 2. Chamisky of water, fuel and bioluel, problems of environment protection 2. Oxidation-reduction processes.

General Chemical Technology	6	To acquire knowledge about chemical technology and chemical production, to understand the structure of production and to be able to choose suitable methods of preparation of are materials and internetification of chemical technological processes.	Essential incolledge about chemical technology and dmemical production structure are acquired. The students will be able to apply this knowledge to the design of production of a new certain hermical products, is, to draw up the model of technological proces, properly acted run materials and methods of initianification of horizen and an embods and initianification of horizen and an embods and initianification of horizen and an embods of mismafication of horizen and analyse he ideal and industrial neabots actuality for a particular chemical process. The processing of hull (solid, tquid, gas), the basis of industrial ecclogy are learned.	1. Chemical technology and chemical production 1.1. The structure of chemical production 1.2. The main indexis of chemical production 1.3. The main indexis of chemical production. Raw materials (including water) and their treatment. Industrial energy. 1.4. The models of chemical production and the types of technological straams 2. The main propriets of chemical endocution. Raw materials (including water) and their intensification 2. The main propriets of chemical endocution. Raw materials 2. Catalysis 2.2. Catalysis 3. The main chancelistics of industrial reactors. Ideal reactors 3. The main chancelistics of industrial reactors. Ideal reactors 3. The main proprieties mode of production, using spheres or sufficience 3.3. The main proprieties mode of production, using spheres or functional 3.4. The main proprieties mode of production, using spheres or functional 3.5. The main proprieties mode of production, using spheres or functional 3.6. The main proprieties mode of production, using spheres or functional 3.7. The binding properties mode of production, using spheres of functional 3.7. The binding properties mode of production, using spheres of functional 3.8. The main proprieties mode of production, using spheres of functional 3.8. The main properties mode of production, using spheres of functional 3.8. The main properties mode of production, using spheres of functional 3.9. The binding properties mode of production, using spheres of functional 3.7. The binding properties mode of production of Parliand cement 3.8. The leadmological methods of Industrial water materials decrease. Conversion of solid, liquid, gas waste materials
Biomedical Polymers	6	To give the knowledge on the production, properties and application of biomedical polymers and the correlation between the properties and application of biomedical polymers.	The students get knowledge on the requirements for biomedical polymers, their biocompatbility and safety, the understanding of biodegradation processes of biomedical polymers, the comprehensive knowledge of poduction, properties and application of symthetic, biomedical polymers, the outpertension and application of symthetic composities and the order of design and standardization of new biomedical polymers. The stutheting set knowledge how to prepare and select the polymers for the target application in medicine.	Classification of biomedical polymers and the main concepts Requirements for biomedical polymers Mechanical and physical properties of biomedicla polymers Secontary and the second s
Bioproducts	9	To gain knowledge about the sources of bioproducts, methods of obbinment, isolation and purification, and their regulatory requirements.	To present the concept and principles of modern industrial biolechnology. To provide knowledge about production methods, applied moden biolechnologies and processes of industrial bioproducts, raw materials and menevable resources as future perspectives. To deepen knowledge about the use of produced biopranic materials and chemicals in virsious industries and energetics. To induce strategies of bioprocesses, ecologically deare technologies, to discuss about reductors possibilities of resource, production waste and costs.	Introduction: Renewable resources - future prospects. Bioecommy. White biotechnology and green chemistry concept. Biomass, biogramin mahridis, bioproducts. Biomass pretrating of processes. Advantages and disadvantages. Sto. and cheme-strategy of processes. Advantages and disadvantages. Sto. Particularies of the fermemation process. Production of enzymes and modified proteins. St. Processes of catalysis and biocatalysis. Application of microorganisms. Joganic addsymhesis and bioprintes, constraints, and the materials of the memory and the second
Organization of Occupational Safety and Health	3	To provide knowledge about the theoretical foundations of the organization and assurance of work safety and health and to develop the ability to practically apply involved gain the planning, implementation and operation of construction projects.	Knowledge of worker safety and health negurinematic mandatory documents and established procedures at the construction last is acquired. An understanding of OSH elgelation, ISO quality standards, and their application in the construction organization is gained. It is learned to organize construction wastle meagement. Able onaker actional decisions regarding worker safety and health, from an environmental point of wey, to carry our construction projects taking into account the aspects of sustainable safety and impact on people.	1. Occupational aftely and health sepads 2. Occupational health and safely legal regulation in the construction sector 3. Structural, lechenological and security solution synthesis 4. General and special requirements for the installation of workplaces at the construction site 5. Ensuing servicemental solutions in construction work 6. Social dalogue in the enterprise by providing safe and healthy working conditions 7. Academis and construction and 7. Academis and construction Safety Modeling and continuous improvement 8. Sustainable Construction Safety Modeling and continuous improvement
Electric Drives	6	Acquire knowledge of the basic elements and their systems, operation and design principles of electric drives.	Learning to understand the mechanics of electric drive (drive structure and state and dynamics of mechanics) (systems), state, dynamics and control to CA, 62 and defters-pignet net, and the structure of the structure to the structure of the structure of the structure of the structure of the structure of the structure data structure of the structure of the structure data structure of the structure of the structure developed in electric drive with efficiency, reliability and environmental triendy.	
Electric Power Systems and Microgrids	6	To provide students with knowledge about the structure of electrical systems, the use of energy resources and electrical consumption as well as generation balancing, electrical system voltage regulation and control of power flows in normal and post-energency states, to form the abilities to calculate the best commitment of generators and regimes of direct current lines.	Knowledge acquired about the properties of power systems. Formed ability to perform the analysis of frecuency deviations and powers balansing, to calculate levels of system voltages and englies of electronical devices of direct current lines, and to evaluate the information of energetics to the environment.	The structure of power systems The softwork of the system sector The softwork of the system frequency Softwork of the system frequency The reactive power balance Softwork of the softwork of softwork Softwork of the softwork Softwork Softwork of the softwork Softwork
Electrical Materials and Measurements	6	To provide knowledge abaut electrical materials and electrical measurements. To develop competence, skills necessary for required in the selectrical measurements. electrical measurements.	The students are laught to understand the shuckure and classification of electrical materials, their general electric and magnetic properties, to know their main parameters and characteristics, to evaluate the state of electrical materials under the impact of methodic state discriminations. It hows tend quicklines methodic state discriminations, the invest end quicklines magnetic parameters, to use measurements data acquisition systems. Its hows how to how bones electrical materials and devices of electrical measurements depending on environmental and exploitation conditions.	Preface. Classification of electrical materials, the problems of materials analysis. Councel electric and magnetic properties of materials. Submotical materials, their properties phenomena, aplication. Solution of the second structure of the second str

Electrical Materials and Measurements	3	Provide in-depth inouledge of the classifications and structures of electrical materials, methods of electrical measurements and the ability to understand phenomena occurring in electrical equipment and the principles of electrical measurements	Knowledge of the structures of electrical angineering materials, heir general electrical and magnetic properties is accurated and the basic electrical materials. Near general electrical materials electrical engineering materials shall be developed by electrical engineering materials shall be developed by sessissing of electrical and magnetic properties. Allowance for the testing of electrical magnetic properties, the selection of massiment methods and instruments, the classification of electrical materials, the general characteristics of their groups and automated measurement systems.	1. Perfore: Classification of electrical materials, the problems of materials analysis 2. Charakteristics of electrical measurements insumentations, enors 3. Electromechanical measurements insumentations, enors 4. Measurement of resistances of electrical materials 5. Bearnetical materials 5. Searnetical materials 5. Observation of the properties of o
Fire Safety	3	To give with the leading trends of fires, buildings fire safety demands, to select building materials after the most resistance to fire.	Building construction, technical classification of building and construction and frags. Fice prevention requirements for public, industrial, dwelling, farm houses. Normalive technical documentation of fre safely. Construction methods for determining the finammability of products, farmability a docude, farmamability products, samating that analorativities and use. Construction products in buildings fire safely general principles. Ensuing the sustainability of building materials, their effective use.	1. Documents regulating the fire stellsy in building 2. Fundamental for prevention demands for construction 3. Fire technical dastification of building production and structures 4. The requirements for fire spread infining 5. The security of safe evacuation of people from building 6. The requirements for advanced constructions 7. The fire prevention demands for outload constructions 9. The fire prevention demands for outload constructions 9. The fire prevention demands for outload constructions 11. The automation of constructions 11. The automation of constructions 11. The submation et errowal systems 11. The submation et errowal systems 12. Fire water supply 13. The fire prevention demands for heating systems 14. The lightning protection for constructions and premises
Fire Safety	3	To give with the leading trends of fires, buildings fire safety demands, to select building materials after the most resistance to fre.	Building construction, technical clasification of building and construction rate of the rise prevention requirements for public, inclustial, detailing, dam houses. Normative technical documentation of fire alley, Construction methods for detaimining the flammability of products, flammability classification system. Organic and inorganic building metarials and products essential characteristics and use. Construction products in buildings fire safety general principles. Ensuring the sustainability of building materials, their effective use.	2. Fire technical destriction of building production and structures 3. The requirements for free spread limiting 4. The security of safe evacuation of people from building 5. The fire prevention demands for social constructions 6. The fire prevention demands for social constructions 7. The fire prevention demands for values constructions 7. The sources constructions and preventions 7. The sources constructions 7. The s
Product Aesthetics	6	Acquiring technological sciences inherent aesthetics of science and engineeming howeldge of scychology projected needs of the product development process.	The course provides knowledge about historical development of engineering assetties's, principles of composition, ergonomics and bioins and decorative elements and principles of cotors usage, importance of ordpect illumination and assisticts meaning of products in variuus groups society.	1. Review of histincial sepects of Engineering Asthetics 2. Esthetics (means of engineering its Orlacias and A.Palevõius in their art creations 3. Composition principles of product 4. Ergonomics and antropometrics 5. Bonics 6. Product clori and interaction with environment 7. Product toxina and facture 8. Bonics 9. Design applications of estimative structure 9. Design applications of estimative structure 9. Design applications of estimative structure 11. Movie event structure 12. New product development concepts 13. Sustainable design
Natural and Synthetic Polymers Technologies	6	To provide tocoledge of main polymer types, properties, moulding behnologies and to develop the competences needed to select materialis and manafesturing methods for a product, taking into account product design, performance requirements and process costs.	The knowledge of biopolymers and synthetic polymers technology, polymer types and proparties, the equipment and main molidiang methods is scrutierd. The student will be able to safet methods for the municature of polymer products depending on the shape, cost and environmental impact of the product. General knowledge of the recycling of plastic waste is acquired.	POLYMERS IN THE SUISTANABLE DEVELOPMENT CONTEXT 2. POLYMERS SRUCTURE, TYPES; PROPERTIES AND APPLICATION 2. Notwall and synthesic nucleonial 2. Natural and synthesic nucleonial 3. MOLLONG METHODS OF POLYMERS 3. MOLLONG METHODS OF POLYMERS 3. Addition and anducturing with plastics 3. Providence of plastic sheets 3. Addition and anducturing with plastics 3. Addition and anducturing thermosetis moulding 3. Methods of manufacture of synthesic Rives 3. Addition and adultion processes 3. Revoluting Component and solution 3. Methods of manufacture of synthesic Rives 3. Revoluting Component and solution 3. Methods of manufacture of synthesic Rives 4. Recycluling AND SECONDARY USE OF NATURAL AND SYNTHETIC POLYMER WASTE
Hydraulic Stuctures	6	To got knowledge on purposes and basic design principles of hydrodic structures. To develop the ability to collect and evaluate the required data or to perform the necessary research for the design of the dam, embaniment, channel and other hydraulic structure or equipment.	Students are taught to understand the purposes and basic design principles of hydraulic structures. Students should be able to collect and evaluate the required data. Experform the necessary research, to design the dam, the emarkment, the channel and another hydraulic structure and equipment in compliance with requirements defined in legal documents and provide for operating conditions. Students should be able to identify an evaluate the interaction of hydraulic structures and the environment.	I Introduction to hydrology. Purposes and Types of Hydraulic Structures 2. Dems 2. Dems 2. Concrete Dams. 2.2 Concrete Dams. 2.3 Dams from Other Materials. 2.4 Spilowsy. Watergates. 3.1 Channels. 3.2 River Shipping. 3.3 Proncts. 3.3 Priords. 3.3 Priords. 3.4 Suices. 3.5 Hydropover Stations. 3.5 Hydropover Stations. 3.6 Hydropover Stations. 4. Hydraulic Structures for Fishery 5. Historication of Hydraulic Structures and Environment 6. Interaction of Hydraulic Structures and Environment
Innovative Materials	3	To get acquainted with the prospects and challenges related to the development of advanced building materials and application.	Acquires knowledge of the latest building materials and schnologies integrated into residential or commercia building infrastructures to make them smarter, more sustainable, and efficient. Structural solutions are discussed by evaluating the advantages of innovative materials.	Legal regulation - the EU's regulatory environment Z.Smart and innovative building materials are being dassification Z.Smart and innovative building materials and addices A.Building materials and photovalic systems S.Indingent (IF environment) materials, acadings and systems E.Innovative (smart) concrete, specific building blends T.Environmental Frankly (Eco Franci) Building Materials Reyding construction materials Reyding construction materials Reyding construction materials Notice for the system of the systems S. Hybrid construction materials Notice for the system of the systems S. Hybrid construction materials Notice for production systems Notice for production systems Notice for the system of the systems Notice for the systems System of the system of the systems Notice for the systems
Innovative Building Materials and Products	6	To acquire knowledge about the development of advanced building materials, their properties, the main methods of use, equipment and technologies. To analyze the prospects and challenges related to the application of nonvative construction materials and products in practice.	The knowledge about the latest building materials and technologies integrated into residential or commercial building instauctures on make them smarter, more sustainable and effective. Considered design solutions assessing the benefits of innovative materials.	Legal regulation - the EU's regulatory environment Z. Smat rand innovative building materials are being dassification S. Reducing COC emissions by building materials and anticles Reducing COC emissions by building materials and anticles Reducing COC emissions by building materials Si humbern (It The Phermal Insulation materials, coatings and systems Si humbern (It The Phermal Insulation materials, coatings and systems Si humbern (It The Phermal Insulation materials, Si humbern (It The Phermal Insulation materials, Si humbern (It The Phermal Insulation materials, Si hydroxid construction materials, Si hydroxid construction materials, Hydrod construction materials, Si hydroxid construction materials, Hydrod construction materials, Si hydroxid construction hydroxid constr
Smart Electrical Systems of Buildings	3	To acquire knowledge about new smart electrical energy systems and technologies used in various buildings	The basic knowledge of electrolectrical engineering is provided for students studying non electrical energy subjects. The wrowledge gained during studies of smart energy systems and the equiprisent used in a writer of buildings and their explication cossibilities in highing and it is subjection polynomia. Students are able to students the desplacition of rememble energy wrownes, to choose a place for rememble energy systems. [githing enclosing writer electrical equipment, which me encessary for construction, installation and reliable operation of these systems	4,2. Wind power station

Smart Electrical Systems of Buildings	6	To acquire knowledge about new smart electrical energy systems and technologies used in various buildings	The basic throwledge of electrotechnical engineering is depend for studients studies non electrical energy subjects. The throwledge gained during studies of smart energy systems and the equipment used in a variety of buildings and their application possibilies in Joueshold or industry. Students are able to understand the application of enewable energy sources, to choose optiedion equipment from current discharge, internal overvoltages, lighting protection systems. The knowledge gained during studies of smart electrical systems, what electric vehicle charging studions, wirkless selectrical equipment and other smart new electrical equipment	1. Introduction into electrical engineering 2. Ocard AC power networks 3. Oategories, groups and characteristics of electrical consumers 4. Sources of distributed generation (enewable systems) and storage systems of electrical energy 5. Schemes and equipment of electrical supply (electrical network schemes to 1000V) 6. Electrical which and their charging attalions 7. Protective devices from internal and external overvoltage (lightning protection) 8. Smart grid systems and their installation requirements
Fuel Cells and Electrochemical Energy Storage Devices	6	To acquire the basic knowledge of operating principles, design features, use in electric power generation, accumulation and supply of the various fuel cells and electrochemical energy storage devices.	Knowlege about diversity and construction divarateristics of direm types of the cells and electrobenical energy storage devices and their application in the various areas of technique, domestic, and power systems is acquired Ability to understand operating principits and devices in gained Knowledge how to calculate parameters of different types of tracel and and electrobenical energy storage devices is obtained. Knowledge about behindogies of tube cals and electrobenical energy storage devices is obtained. Knowledge about behindogies of tube cals and electrobenical energy storage devices a splicable in various fields and their impact on the environment is assimilated.	
Monolithic and Masonry Construction Technologies	6	To acquire knowledge and pancicul skills in the field of construction technologies of concrete monolithic and masonry structures.	Is provides a general knowledge of monofilitie and maxing structures, their installiation formologies, technical solutions, and their selection features. Suburtis are able to select the appropriate behmology and organization of construction works for the installation of relevant monofilitic and maximy structures, apply modern construction techniques and quality and safety of works, and take into account the sustainable use of natural resources.	1 The role of monofilitie and maxonry structures in modern construction 2. General requirements for concrete and compaction of the concrete mix. 3. Transportation, placement and compaction of the concrete mix. 5. Installation and positioning of reinforcement difficult for the structures of the str
Packaging Materials and Technologies	3	To provide knowledge about packaging materials and technologies and to develop the necessary competencies for their application in the food industry	Essential knowledge of packaging materials, their purpose and classification.bdod packaging (glass, mella, paper, jasta and composite), packaging technologies (processes) and packaging closure is a quinted. Able to packaging violanti and a packaging in different areas of the food industry.	1. Introduction to packaging materials and technologies 2. Purpose of packaging materials and their classification 3. Packaging technologies (processes) and their classification 4. Glass food packaging and their production technologies 6. Paper (caraboard) food packaging and their production technologies 6. Paper (caraboard) food packaging and their production technologies 8. Packaging technologies (processes) and their production technologies 8. Packaging abarding and their production technologies 8. Packaging abarding and their packaging and their packaging technologies 8. Packaging abarding and their application technologies 8. Packaging abarding abarding and their application technologies 18. Introvative packaging and their application in the food industry 10. Sustainable packaging materials and their application in the food industry
Operation and Renovation of Building Services Systems	6	Acquire incontedge on the constant of building survives systems, their durability monolong, and management systems, their durability monolong, and mecoantraction of service systems accontance with applicabile standards, service hydraudics and accontance with applicabile standards, evaluate changes in system loads and performance, as well as economic indicators.	This course is aimed at developing skills to solve monation and moderization tasks of usiding and their sensions systems. The service life of these gestratives is splication, brief with the tot buildings and the service service service service and solving buildings multi be revolved to the sludy module focuses on heating, vertilation, at conditions, where the revolved to substrated disposal systems, as well as the integration of renewable every sources. It microduces building management (BMS) systems and the concept of digital twins.	1. Operation and maintenance of hullding services systems 2. Operation of envices systems and encorection drategy 3. Maintenance and retrofiting of heating, ventilation and air conditioning systems 4. Maintenance and retrofiting of heating, ventilation and air conditioning systems 5. Deep renovation and integration of renovation 6. Selection of renovation scenarios and feasibility analysis
Polymer Chemistry	6	To introduce knowledge on basis definitions of polymer science and nomendature of polymers, methods of synthesis, physica of chemical projective of polymers and their solutions, methods of stabilization and processing.	The basic definitions. Polymer dasafication and nonenclature. Synthesis of monomers. Polymer synthesis. Chain growth polymerization (adjound) and an exploration (adjound) (adjound) and and (adjound) (adjound	Basic definitions of polymer science and nomendature Z Methods of the synthesis of nonconners and polymers S Methods of the synthesis of nonconners and polymers 4 Onlain-growth polymerations Sonar and coordination polymerations Synthesis of copyones Morphology of polymers Morphology Morpho
Regional Economics	6	To understand the features of economic development of regions, be able to analyze the economical and political poblems of regions, be able to evaluate the effectiveness of regional politics and to develop the ability to analyze, evaluate and form the strategies of regional economic development and competitiveness improvement.	The focus is oriented to how peographic space am- mode accornic activity. The back customs are why does accornic activity take place where it does, why businesses choose to locate where the you, why some regions three and others don't. The outrae covers issue related to explorate accorning and regional level of economic activity, the impact of economic policy on and napical growth, methods in regional economics adding, methods and analyzing the impact of economic activity on the regional economy; the impact of innovations, circular economy, the integrated evelopment.	IFRAMEWORK FOR INDERSTANDING 1.2 Region ad engion and city 1.2 Regional development mechanism 1.3 Denysis of regional economic development 1.4 Dynamics of regional economic development 1.5 Conceptituation of regional economic development 1.6 Specification of regional economic development 1.2 Norticu MENT SO FANLYSIS AND ASSESSMENT 2.1 New methodiogical approaches for analysis and assessment 2.2 Analysis by Index 2.3 PESET and SWOT analysis 2.4 Regional economic base analysis 2.5 Input-Output analysis 2.5 Input-Output analysis 2.6 Contributional impact evaluation 2.1 Seconding Call and economy assessment 3.2 Regional economic base analysis 2.3 Analysis BVOT analysis 2.4 Regional economic base analysis 2.5 Input-Output analysis 2.5 Input-Output analysis 2.5 Analysis DVOT analysis 3.5 Marguet Assessment 3.1 Statiangic planning of regional economy assessment 3.1 Statiangic planning of regional development 3.1 Regional Assessment 3.1 Regional Regional Assessment 3.1 Regional Re
Thermal Measurement and Control of Technological Processes	9	To acquire knowledge of measurement of thermal parameters, composition and operation of control and regulation system of exhemological processes and to master methods and tools of measurement.	Knowledge of the main methods and tools for measure of thermal parameters is undershod. Requirements of international admandate system for measure of thermal and energy parameters are measured. Abilities measure with various devices and be harmonize teoretical and practical knowledge are obtained. At an ecologre quester tere validities of application of analysis methods and tools for scavenge are obtained. At an ecologre quester tere validities of automatic regulation of technological processes, principles of operation and synthesis, mathematic logical control devices and automatic regulators and basics of their programming is acquired.	Metrology basics 1. General knowledge on measurements 1.2 Evaluation of measurement results 1.2 Evaluation of memanal on energy parameters 2. Measurement to themanal and energy parameters 2. Measurements of themanal and energy parameters 2. Measurements of themanal and energy parameters 2. Measurements of themanal and energy parameters 3. Massurements of themanal and energy parameters 4. Measurements of themanal and energy and two of liquids 2. Measurements of themanal and energy and two of liquids 3. Massurements of density and level of liquids 4. Measurements of themanal and energy and level of liquids 4. Measurements of themens of CSTP 3. Basic dentitions of control systems of technological processes (CSTP) 3. Provides and schemens of CSTP 4. Demander CGTS 4.2 Composition, characteristics of sensors 4.2 Composition, and and energing processes 5. Systems of logical control (SLC) of technological processes 5. Telements, composition and destending processes 5. Systems of adjusterial and televided processes 5. Systems of adjusters and analysis of logical control (Src) 5. A composition and adjusterial control (Src) 5. A compositin and adjusterial coneqiral control (Src) 5. A compositin a

				Automated regulation systems (ARS) of technological processes 10. Operational principles and structural schemes of ARS 20. Mathematical models of APS and their elements 2.3. Mathematical models of processes 6.4. Automated regulators 6.5. Programmed automated regulators 6.5. Quality of APS and huming of automatic regulators 6.7. Packages of digital programming and their application for modelling of CSTP
Thermodynamics and Heat Generation	6	To acquire basic knowledge of applied thermodynamics. To acquire basic knowledge of hat generation systems and expiramel. to understand their constructional and operational peculiarities.	Basic knowledge of applied thermodynamics is acquired and methods for generation, transformation, transfer and consumption of heat energy in heat generation equipment, heat engines, heat exchangers and other apparatus are understood. Methods of similarity theory for calculation of heat transfer are methods as acquired, constructional and operational systems is acquired, constructional and operational speciations of heat practice and set operations of the set practice and set set of the set of the set of the set transfer are speciations of heat practice and set set of the set of the set of the set of the set set of the set of the set of the set of the set set of the set of the set set of the set of the	1. Thermodynamics 1.1 Basic concepts and definitions 1.2 Basic concepts and definitions 1.3 Basic hermodynamic processes of ideal gases and vapor 1.4. The second ward of hermodynamics 1.5. Option of permodynamics 1.5. Option of permodynamics 1.6. Option of permodynamics 1.6. Option of permodynamics 1.6. Option of permodynamics 1.7. Detection of the transfer 1.2. Stady they do conduction 2.1. Best instead: 2.2. Stady they do conduction 2.3. Best instead: they concelluin 2.4. Best instead: 2.5. Overal heat transfer between two bodes 2.6. Overal heat transfer between two bodes 2.6. Stady they conduction 2.6. Heat mander 3.1. Classification heat generation technologies 3.2. Description of a lead classification 3.2. Equipment for combustion of stalif fuel 3.5. Equipment for combustion of stalif fuel 3.6. Axailar equipment for bland house 3.7. Heat blannes: 3.7. Heat blannes: 3.8. Despin and section of heat generation systems 3.9. Utilization of renevable sources for heat generation
Development and Deployment of Network Based Services	6	To provide knowledge about network based distributed information systems, the principles, methods and technologies used to component informations in such information systems and to provide skills for implementing interactions of component of distributed information systems via network services.	Knowledge about architecture of distributed information systems, remote procedure calls, web services, message queues, enterprise averice busses, worldows, distributed transactions, systems scalability and availability sequence. Practical skills in creating network services using NET ecosystem are acquired.	1. Architecture of network based distributed information systems 2. Interaction methods of distributed information system components 2.2. Traditional interprocess communication and remote invocation mechanisms 2.2. Web services 3.2. Missage queues 3.3. Distributed transaction 3.1. Distributed transaction 3.2. Enterprise service buses and dem means of component orchestration 3.2. Enterprise service based and dem means of component orchestration 4.3. Architecture and principles of scalable solutions 4.4. Architecture and principles of light availability solutions
Transport Systems	3	To learn through understanding of transport system: physical and functional components transport management systems, structure of road, railway, air, water, pipeline transport systems, relationships, comparisonal and technolo- peoularities of multimodal transport policy, realization programs and the spacelia arise not benefation transport programs and transport policy, realization advection methods of transport policy aspects and selection methods of transport policy aspects and statuations, analysis of transport policy aspects and statuations, policiation of transport policy aspects and algorithms.	The students are thought to understand the disarderistics of carson system, to describe and analyse the system, relations with environment, principles of usualizable transport system and to apply in transport engineering practice, to apply general methods of transportation routes selection, algorithms of transportation planning, regulating documents, to evaluate peculiarities of transport pysiems, new shalegies and appends of transport policy.	1. Transport system function 1. Transport system function 1.2. Transport system function 1.2. Transport system function 1.3. Transport system 1.4. Transport system 1.5. Sustainable transport and environment 1.5. Transport systems 2.1. Roads transport 2.2. Roads transport 2.2. Roads transport 2.2. Roads transport 2.3. Water transport 2.5. Autimized transport 2.5. Multimodel transport 2.6. Multimodel transport 2.7. Urban transport
Basics of Urbanism	3	To gain the knowledge and to apply them to salve problems in oby planning and urban processes.	In the study module, students gain knowledge about the trends of modern urbanism, the challenges of urbanization and globalization for the city, cultural intratinge protection, planning of communication, greenery, lenitories and in the urban environment. Sudents gain the ability to analyze the urban environment and solve problem-based tasks is provided.	Introduction to urban planning 2. Urbanization and globalization 3. Planning of urbanized environment 4. Ory structure 4. Ory structure 5. Ory motorized transport spaces 5. Ory motorized ransport spaces 7. The concept of cultural heritage and its protection 8. Modern theories of urbanism
Business Process Management	6	To understand management of business process, creating value to customer, to be able to model business processes, aiming for efficient use of different kinds of resources.	The knowledge of husiness processes and their management in the context of added value is acquired. Students gain knowledge of business process characteristics, are able to bidinity and analyze processes from environmental and internal synapscrutes. Students are able to argue on the peoularities of business processes in manufacturing and service companies, critically evaluate and improve processes.	DEFINITION OF BUSINESS PROCESS MANAGEMENT 1.1 Process definition and the main characteristics 12 Processes in the Organization. Creating Addad Value for Customer 2.1 AnnAGEMENT OF PROLOCISN PROCESS 2.1 Production Processes and ther Electronenses 2.2 Types of Production Processes in the Centex of Sustainability and Circular Economy 3. THE PROLUMENT ES OF SERVICE PROCESS 4.1 Management of Production Processes in the Context of Sustainability and Circular Economy 3. THE PROLUMENT ES OF SERVICE PROCESS 4.1 ManaGement of Production Processes in the Context of Sustainability and Circular Economy 3. THE PROLUMENT ES OF SERVICE PROCESS 4.1 MANAGEMENT OF AUXILIARY PROCESSES 5. MANAGEMENT OF AUXILIARY PROCESSES 5. MANAGEMENT OF MORK PROCESSES 5. MANAGEMENT OF WORK PROCESSES 5. MANAGEMENT OF WORK PROCESSES 5. MANAGEMENT OF WORK PROCESSES 5. MANAGEMENT SALESSES 5. MANAGEMENT SALESSES
Business Process Management	6	To understand management of business process, creating value to customer, to be able to model business processes, aiming for efficient use of different kinds of resources.	The knowledge of business processes and their management in the context of added value is some set of the se	DEFINITION OF BUGINESS PROCESS MANAGEMENT 1.1 Drosts definition ref the main characteristics 2.1 Drosts definition ref the main characteristics 2.1 Drosts definition ref the main characteristics 2.1 Drosts Definition of Characteristics 2.1 Drosts Definition of Characteristics 2.1 Drosts Definition of Characteristics 2.1 Production Processes in the Supply Chain 2.2. Type of Production Processes in the Electromese 2.3 The Concept of Leam Manufactury Chain 2.3 The Concept of Leam Manufactury Chain 2.4 Management of Production Processes in the Context of Sustainability and Circular Economy 3.1 The PCOLLIANTE Sor SERVICE PROCESS MANAGEMENT 4. MANAGEMENT OF VOICES PROCESS MANAGEMENT 4. MANAGEMENT OF VOICESSES 5.1 Work Organization and Productivity 5.2 Work Standards and Payment 5.3 WorkBow Analysis 6. BUSINESS PROCESS MADELING AND IMPROVEMENT
Local Economic Development	6	To provide knowledge about the essence, principles and statistarges of local coornic development and gradical implementation methods and to develop the ability to apply them in the formation, implementation and evaluation of local economic development.	By offering mecetical models and practical methods mastered assemila toweledge and stills with he field of despina; implementing and evaluating sustainable local development strategies sublab for the local socio-economic environment aiming to improve quality of ife within the local area.	

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Architecture of Public Buildings 2	12	To deepen the theoretical knowledge and practical skills in the design of publics jokuncional buildings, be bails to capture the essential aspects of the object: the need for function, aesthetics, context, etc.	Course research the architecture, forms, constructions and functional relationships of polyfunctional public buildings. The design of a public polyfunctional buildings project contributes the knowledge and skills of architectural design, environmental formation and design of communication systems in the vdt. The architectural solutions that are generated during this architectural solutions that are generated during this architectural solutions that are generated during this asks to be derived by the needed of consumen, but also the context of the environment (natural, engineering, cultural heritage, transport, etc.).	
Architectural Experiment 3	12	To deepen the theoretical knowledge and practical skills in public polyfunctional complex design, to be able to capture the essential aspects in the object: the need, function, aesthetics, context, etc.	Architectural Experiment 3 investigates the urban structure, in which is designed multifunctional public building, its relationship with the shaped environment and stransportation systems, public polythractional building landball milks, forms, structures. Subject integrates the billowing modules, architectural design, integrates the billowing modules, architectural design, in the study process are generated architectural solutions, taking indo account the projected building dynamic environment and spatial conditions.	
Security Dimensions of the Baltic Region	6	To develop critical thinking and understanding of a wide spectrum of security challenges as pertaining to the Batic sea region, also hrough raising awareness of historical developments, awareness of social, cultural, economic and geo-political contexts, that influenced the current security profile of the Batic region.	Students analyze the security situation and main security ratifications of the Battle Sea region, analyze how the security profile has been dedomined by historical social, economic or geopolitical contexts, students discuss security chaltenges in various fields, for example, geopolitical, social, environmental threads. Students are able to compare the evenity situation of the Battle States and other countries in the Battle Sea Region.	Historical security contexts and their theoretical interpretation Historical securit, cultural, economic, political, geopolitical security context of the Battic region Li historical social, cultural, economic, political, geopolitical security context of the Battic region Zattic Sea region security shatton and main challenges Zattic Sea region security shatton and dependence on global economic shocks Zattic Sea region Z. Socio demographic processes in the region on global economic shocks Z. Simak change and challenges to the Battic Sea region Z. Pake news and information was Z. Pake news and main ansecurity in the region Z. Comparative analysis of the security shatton in the Ballic region and other regions of the world
Sustainable Human Development	6	To develop deeper understanding about sustainable human development, main challenges and problems related to demographic, technological, environmental, etc changes.	socie-aconomic contexts within the professional activity area; networkge is related to the main developmental patterns and trends within contemporary sociedies, such as demographic changes, changes in social structure of societies, conomic watters, could impact of technologies, changes induced by environmental challenges. Develops the ability to operate within social and professional contexts following the principles of sustainable development, principles of non- discrimination and cultural diversity apprecision. Student is able to draw on necessary data to prepare data-informed situation reviews.	1. INTRODUCTION TO STUDIES OF HUMAN DEVELOPMENT 2. SOCIAC COGICAL INTERPRETATION OF HUMAN DEVELOPMENT 3. SOCIACETION AND INESAURCENENTS OF HUMAN DEVELOPMENT 4. PARADIGING OF SUSTAINABLE DEVELOPMENT 4.2. Providemental dystunctions and constructs for emergence of new development] paradigm 4.2. Endomental ideas and principles of sustainable development paradigm 5.1. Ultracy, education and public health 5.2. Economic welfands of HUMAN DEVELOPMENT 5.1. Ultracy, education and public health 5.2. Economic welfand end usstainable human development 6. CHALLENGES AND ISSUES OF HUMAN DEVELOPMENT 6. CHALLENGES AND ISSUES OF HUMAN DEVELOPMENT 6. CHALLENGES AND ISSUES OF HUMAN DEVELOPMENT 6.3. Challengs of Challman divelopment 6.3. Challengs of Indiae Anay for sustainable human development 6.3. Coale import diventionet and paradigm 6.3. Coale import diventionet and evelopment 6.3. Social import of technologies 6.4. Civil society and its empowerment 7. ALTERNATIVE SCENARIOS FOR FUTURE HUMAN DEVELOPMENT 7. ALTERNATIVE SCENARIOS FOR FUTURE HUMAN DEVELOPMENT
Sustainable Development	6	To develop global, critical and reflexive awareness of the social, economic, cultural and environmental context, in which the graduate and the ethical poelion based on the principles of sustainable development.	Obtaining the basic knowledge of social, economic, cultural and environmental tendencies, developing ulue thinking and systematic thinking, critical ability to evaluate and apply mastered knowledge in the personal, civic or professional activities.	1. The relevance of sustainable development 2. Philosophy and Sustainable development 2. Philosophy and Sustainable development 2.2. Philosophical Reflection of Contemporary Societies 3. What is is should be development 3.2. What is is should be development 3.2. What is is the should be development 3.2. What is the should be development 4.2. What is the function of happings and welfare? 3.2. What is the development 4.2. What is the charder Economy? What are the development? 4.2. What is the charder Economy What are the development 5.2. What are the reasons of dimited benarge? 5.2. What are the reasons of dimited benarge? 5.2. What is the policy of dimited benarge? 5.3. What is the policy of dimited benarge? 5.4. What is the policy of dimited benarge? 5.2. What is the benaries and benarge when benarge bena
Engineering Economics	6	To provide knowledge about the principles of the market mechanism at the roce and manor busines and to develop the ability to assess the impact of economic factors in engineering decisions.	to analyze market changes, recognize the factors determining product price changes, analyze consumer behavior in the market. Acquires knowledge and acquires shills bevaluate the economic differiory of development and implementation of engineeing solutions in micro- and macro-environments.	ANTRODUCTION TO "ENGINEERING ECONOMICS" 1. Demand and supply Local BRUIL BRUIL IN IT HE MARKET 1.1. Demand and supply Local BRUIL BRUIL IN IT HE MARKET 1.2. Types of market structure Local BRUIL BRUIL IN IT HE MARKET 1.3. Types of market structure 2.1. Easilization Into Branchet 2.2. Easilization Into Branchet 3. CONSUMER BEHAVIOR 4.2. Easilization Into Branchet 4.1. Factors of product manufacturing 4.2. Easilization Into Branchet 4.3. Substitution of Inteletion of production 4.3. Substitution of Inteletion of production 4.4. Production Inteletion of production 4.5. Arbitistic Inteletion 5.1. Production on product manufacture 5.2. Procing methods 6.1. Production in a prefere Competition market 5.2. Proding methods 6.2. Profit maximization in a product and economic value of creation 7.1. Socio-economic assessment of Imnovation 7.1. Socio-economic assessment of Imnovation 7.3. Socio-economic assessment of Imnovation 7.3. Socio-economic assessment of Imnovation 7.4. Commercialization of Information 8. ANTIONAL INCOME NONESEINE 8. ANTIONAL INCOME ADMINE 8. ANTIONAL INCOME ADMINE 8. ANTIONAL INCOME ADMINE 7.1. Innovation In a prefere Competition market 8.3. Problem Simplement of Imnovation 7.3. Socio-economic assessment of Imnovation 7.3. Socio-economic assessment of Imnovation 7.3. Socio-economic assessment of Imnovation 8. ANTIONAL INCOME ADMINE

					9. MACROECONOMIC POLICY AND ITS FEATURES 9.1. Facal policy: essence and objectives 9.2. Montariary policy: essence and objectives 9.2. Montariary policy: essence and objectives 10. BuSINESS CYCLE AND LONG-TERM ECONOMIC GROWTH 10. European Extension (Constraint) 11. European Extension (Constraint) 11. European Extension (Constraint) 12. Intellow, Texms, raike, causes and economic consequences 12. INTERNATIONAL TRADE 12. Senden of International trade 12. Senden of International trade policy 13. The CHALLENGES OF THE MODERNE CONSULY 13. Constraint (Constraint) 13. Clinate change and the conomy 13. Clinate change and the conomy 13. Situate of International trade 13. Clinate change and the conomy 13. Situate of International trade 13. Clinate change and the conomy 13. Situate of International trade 13. Clinate change and the conomy 13. Situate of International trade 13. Clinate change and the conomy 13. Situate of International Integration 13. Clinate change and the conomy 13. Situate of International Integration 13. Clinate change and the conomy 13. Situate of International Integration 13. Clinate change and the conomy 13. Situate of Integrational Integration 14. Situate of Integrational Integration 15. Situate of Integratinal Integration 15. Situate of Integrational Integrate 15. Situate o
Introduction to Biotechn	nologies	6	To acquire knowledge about development of biotechnology, modem botechnology, industrial microbiology, new technologies (atomics, transcriptomics, prekomics, prekomics, metabolomics) as well to obtain knowledge about the main biotechnological principles and processes.	university, particular field of study, it's specifics is acquired. Content of studies is seized. Is possible to understand value of scientific information. Student is introduced to scientific research, career possibilities. Student is capable of preparing study tasks with	1. Philosophy of higher education 1.1. Vision and specified of studying in university. 1.2. Vilo acadiem Culture and ethics. 2.2. Find of studies specifics 2.2. Find of studies specifics 2.2. Principles of microbial biotechnology. 2.3. Application of histopical systems in industrial biotechnology. 2.4. Application of microbial biotechnology. 2.5. Studies of genomics, proteomics, mateboline in biotechnology. 3.3. Genomics, proteins, analysis, provide and the study of t
Introduction to Chemical T and Engineering	rechnology 9	6	To gain knowledge about the principles of Suttainable Engineering and the general regularities of chemical technology and engineering, to get acquirated with the structure, peculiarities of the chemical industry, product range, future tends.	Knowledge about higher education and studies essence in the field of chemical and process engineeting and the specifics of the chemical technology and engineering program is aquired. Content of studies issues: It possible to understand value of scientific information. Student is introduced to capable of preparing study fasts with accordance to engineering. Competinose, needed to work in a team and studying individually are nurtured.	Studies of higher education in Kaunas University of Technology, vision, specifics and organisation 1. Study and research at faculty of chemical technology 1.2 Philosopy of higher education 2. Student academic competency 2.1 Academic writing 2.2 Organise of acticle presentation 3. Principies of factors presentation 3. Principies of technology setup: 2.3 Control groups and actication presentation 3. Principies of technology and activity and research 3. Principies of technology activity 2.1 Contomic groups and activity and setup 3. Principies of technology activity 4. Principies of technology activity 4. Principies 4. Principi
Modern Electronics Tech	nologies	6	To get to know electronics technology basics, parameters and facilities, as well as to know development and future of the modern high technology electronics.	The students are suight to understand the consumer electronics design methodology, audio and video signal and data posesing, recording the media input and output techologies, control, communications and future developments.	I. Leisure I. I. Public events image and sound I.2 Cames I.2 Cames I.2 Sense I.3 Sense and pleasure I.4 Robby: radionative, books, photography, video, music Z. Travel planning Z. Z Trovel planning Z. Z Trovel planning Z. Z Trovel planning Z. Z Trovel planning Z. Z Confort maintenance Z. A Unity planning Z. Z Confort maintenance Z Z Confort maintenance Z Z Confort maintenance Z Z Z Confort maintenance Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z

Organizational Communication	6	To analyze the characteristics of internal and external organizational communisation, to organize communisation management, to assess and forese the impact of the internal and external communication on the employees. The different stakeholders and on the image of the organization.	Appropriate internal and external communication is necessary for the successful functioning and image management of an organization. Organizational communication models easils to achive that sudents who complete this subject would be able to analyze, assess and program the internal and external communication strategies.	1. Organizational communication conception 1. Organizational communication conception 1. Organizational communication processes. Communication management in an organization. 1.3. Organizational communication processes. Communication management in an organization. 1.3. Communication target groups, Amment, Burriers 1.4. Communication target groups, Amment, Burriers 2.0. Section 2.
Air Conditioning and Environment Protection	9	To acquire knowledge about heating, ventilation, air conditioning processes and systems, methodologies for identification, calculation and reduction of environmental pollution in thermo energetic.	Knowledge about heating, ventilation, air conditoring systems and equipment are obtained. Calculations of ar state changing coreases, design of air conditioning systems and relation with building empireeing systems are understoch. The reasons of environmental pollution and principles of formation of pollution reduction, possibilities and environmental impart educidon measures are obtained. Methodologies for calculation of environmental impact di hommoengregica di homoschendo gi systems anasteriori. Abilities for independent finding and usage of information are acquired.	Heating
Architecture of Building Complexes	12	To deepen the theoretical knowledge and practical skills in public polyfunctional complex design, to be able to capture the essential aspects in the object: the need, function, aesthetics, context, etc.	The building architecture complex course examines the urban space in which a multi-functional complex of buildings for public, commercial or other purposes is edgened. A compared buildings is propered baing into account the natural, cultural, historical and other contact of the environment, the functional buildings. Forms and constructions of multi-functional buildings. The subject combines the following topics: architectural design acrobitecture and schitectural design accounts the environment and spatial conditions of the designed building.	
Product Development Project	12	To acquire interdisciplinary knowledge of the product or service development while solving scientific and practical problems taking into consideration the needs of the market and society and gain practical product development skills.	Essential product development knowledge is acquired and pracical teamworking, engineering design, protokyleng, testing and engineering documentation preparation akilis are gained. Knowledge and understanging in engineering entics, activicinteal asstaniability and project risks, benefit and cost estimation are acquired.	
Heating, Cooling, Ventilation and Air Conditioning	6	To provide knowledge about the types, equipment, installation, control, operation of heating, cooling, ventilation and air conditioning systems in buildings, and to develop the design competencies of such systems.	(HVAC) systems in residential, administrative and small industrial buildings, schemes of HVAC systems, its functioning, used facilities, installation, setting, adjustment and service of operating. Knowledge and	Indoor climate Z evaluation of building heating and cooling demand Tendpate of substantiable design of heating, cooling, ventilation and air conditioning systems A types of ventilation and air conditioning systems Evaluation of building heating and cooling demand Toucher Knaign (seren/paramics, balancing, regulation and auxiliary equipment for systems) Vouriation of notwising previous and a substance and evaluation and auxiliary equipment for systems Social and heat control systems Social and heat control systems L. Experiment of and systems Social and heat control systems L. Experiment of and substance and evaluation end auxiliary equipment for systems) L. Perey sources, heat generation and refrigeration L. Experiment of wather heating and cooling systems L. Provide nearing and cooling systems Social and cooling systems
International Organizations	6	To develop a broad theoretical and empirical understanding of the role that international organizations play across various issue areas in international politics.	of international politics and global governance. The proliferation and functional expansion of IOs sets the post-1945 international order apart from any previous period in international history. This course provides a broad theoretical and empirical overview of IOs. Theoretically, the course covers both classics as well as	2. How do international organizations operate? 3. International organizations and international law 4. Performance and effectiveness 5. Principal-agent fleory 6. Crichestration

Principles of Sustainable Development	6	To know the concept of integrated long-term natural resources use, development of economy and society; be able to implement this concept in professional work.	To know the basic principles of sustainable development in energy and material flows management. To know frends of sustainable industry and sansport sectors development. To know principles of sustainable oily planning and management. The specific objective: learning to analyse and critically assess problements sublations. Students acquire the Balic University Programme (BUP) dipolma activity grate the course was delivered in the frame of the BUP network.	
Principles of Sustainable Development	3	Acquire integrated long-term concept of society, economy and natural reacess development, and be able apply it in engineering activities.	To know the basic principles of sustainable development. To know principles of neargy and materials extraction, transformation and recovery. To know tends of sustainable industry and transport sectors development. To know principles of sustainable objective: learning to analyse and critically assess problematic situations.	1: Principles 1: Concept of Sustainable Development 1: 2: Economical Growth and Sustainable Development 2: Economical Growth and Sustainable Development 2: Economy
Typology of Architectural Spaces	3	The aim of the study module is to introduce the students with the fundamentals of the typology of residential, public buildings and urban spaces.	The module combines theoretical knowledge, short design tasks and functional and compositional architectuar lessen-interpreting parent principles by analyzing specific examples of contemporary and historical architectuare. Its module noticely provides students with the knowledge needed for design, but also develops critical thinking and nitroduces innovations in architectural design and architectural research.	Introduction; A brief overview of typology in architecture; Typology as a method of research in architecture 2 Buildings and Suiting users from the typological point of view, classifications in different countries, cultural aspect 3 Households: resoluted buildings and their environment 4 Working, studying people, children: needs in the ining environment 5 Elphol pople, people with special resolutions in thing environment 5 Typology of public buildings. Relationships between architectural typology and urban morphology 7. Typology of public buildings. Relationships between architectural typology and urban morphology 7. Typology of public topages 8. New types of architectural spaces, multifunctionality and multifunctional objects; Ecological (sustainable) use of build
Typology of Occupants	3	The aim of the study module is to present the students with the fundamentals of building typology by introducing them with the main groups of building occupants and their needs.	The module integrates the theoretical knowledge and the architectural research and provides students with the fundamentals of understanding and research of architecture from the typological point of view. General principles are presented using and analysing the specific examples of contemporary architecture.	Introduction. The short review of typology in architecture 2 Typology as a way of research in architecture 2 Typology as a way of research in architecture 3 Diulings and the coupraint of buildings from the typological point of view, classifications in different countries 4 Design for people. The needs, buhavior, safely, healt, and comfort of building occupants 5 The inits between the architectural pology and composition 5 Households: residential buildings and their surroundings 7. Onliders: their needs in residential environment, the buildings of education 8 Subring people: their needs in residential environment, the buildings of education 9. Volvider people: their needs in residential environment, the buildings 10. Elder people: their needs in residential environment, the institutions of care, hospices 11. People with special residential environment, the institutions 12. Ecological (sustainable use of buildings
Theory of Architecture	6	The module will help students to understand the relation between diesa and architectural forms, and will develop a salibil recorption inherent outural context behind the architectural artifacts.	The objective of the study module is to introduce students to the theory of architecture as a phonomeron and to reveal its influence on the change architectural assisted conceptions. During the ourse adultative will earn the most important authors and examples of historical architectural theory, the theoretical assumptions of moderniam and the prime trends of contemporary architectural theory.	1. Introduction. Discourse of architecture. 2. The birth of architecture intervy. Vibruivias. 3. Architecture and integrism of middle ages. Abbot Suger. 4. The retain of a settletics of order Leon Battista Albent. 5. The metaphysics and orderal Burano Battista Albent. 6. Romandicum and the concept of heritage. 7. Manifess of the Modern Architecture. A Loos, Le Corbusier and others. 8. The mode manages of architecture. Burano Zuku. 8. Modernian as a social (socialisti project. 10. Albernative visions of Modern Movement. 11. Frem follows Backo New Instruge of modernian. 12. Orlical regionalism and genus locd. 13. The heroy foundamentaria. 14. The Arthropozone and ecology in architecture Beory. 15. Round table discussion: course reflection.
General and inclusive education	6	To provide general and inclusive education knowledge that is applied individually and in teams when implementing specific indivise education models in an educational institution of community.	Students acquire knowledge of general and inclusive education, which is applied individually and in teams, implementing specific models of indusive education in an educational institution or community, they can applien the system educational actions, the universality of education, analyzes the problems of personality education, apply models of indusive education in institutions or communities.	Educational science and practice How and practice Low and p
Modeling, Optimization and Control of Biotechnological Processes	6	To teach a through understanding of typical biotechnological processes and their technological processes are their technological modeling, optimization and optimal control.	Suderte are taught to thocoughly understand the desire floring and parameters, the desire floring equipment and parameters, here and the second of the main process wariables, to apply various types of process mobile, augudon systems from san and energy balance, twiefle expressions for specific biomass growth, substrate consumption, byproduct and protect formation rates, classical and hybrid models.	

Electromagnetic Field Technologies	6	To give knowledge about he properties and laws of electrostic and majorite fields, electromagnetic field in technologic processes.		1.1. System of equations 2.3. Lippice's and Poisson's equations 3.3. Boundary conditions 3.4. Methods of analysis of electrostatic field of elementary sources 3.3. Boundary conditions 3.4. Methods of analysis of electrostatic field of elementary sources 3.5. Bendic appearation 3.7. Method of mages 3.8. Development 3.4. System of equations 3.5. Development 3.4. System of equations 3.5. Development 3.5. System of equations 3.6. System of equations 3.7. Ensity of elementary sources 3.6. Andiracto 3.7. Ensity of elementary sources 3.6. Andiracto 3.6. System of equations 3.7. System of equations 3.7. System of equations 3.7. System of equations 3.8. System of equations 3.8. System of equations 3.9. System of equatio
Electromechanical Energy Conversion	3	To impart news about electric drives principles, main elements and systems of electromechanical energy conversion.nelability.		1. Basic definitions 1.1. Electromechanical systems and their energetics 1.2. Electrical energy conversion to mechanical energy. schemes 1.3. The fundamental elements of electric energy conversing to mechanical energy 2.2. Exaction energy and that characteristics 2.1. Configures of that characteristics 3.2. The types of electric motors is service by degrees of electric on any energy of the electric energy conversion to the electric energy conversion of the electric endors is motoring and thereing conditions 3. Mechanical transmitter were precultaristic and speech-orgue characteristics of industrial equipment 3. Anotstial equipment work precultaristic and speech-orgue characteristics of industrial equipment 3. Anotstial equipment work precultaristics and speech-orgue characteristics of industrial equipment 3. Anotstial equipment work precultaristics and speech-orgue characteristics of industrial equipment 3. Anotstial equipment work precultaristics and speech-orgue characteristics of industrial equipment 3. Anotstial equipment work precultaristics and speech-orgue characteristics of industrial equipment 3. Anotstial equipment work precultaristics and speech-orgue characteristics of industrial equipment 3. Anotatical energy is an electric endors and drive unit 3. Anotatical energy is an electric endors and electromethy is an electromethy electr
Power Transmission	6	To acquire skills for calculation of power networks, which are used for power transmission, parameters, loads and values. To apply the matives and compute based calculation methods. To learn principies of alternating and direct current power networks begin, including assessment of electrotechnoal, financial and mechanical factors. The specific aim to learn how to calculate and scive power electronic converters and compensators applied in transmission networks.	The students are taught to understand the purpose and structure of power transmission networks, to calculate power forea and bus voltages using compared and models, to design projects of networks compensation and gover converting dectoric devices, to solve power quality and electromagnetical compatibility problems.	1. The structure of power energetics system and its purpose 2. The main power transmission induces 3. The main power transmission network 4. The compensation of electrical networks and compensation devices 5. The completer and isclusion of power flows 6. The actualistic of actualistic of power flows 7. The semiconductor econvelters 8. Power electronic equipment: rectificity and complete site of the semiconductor site of the
Energy Economics	3	To obtain the basic knowledge of energy economics, to understand the interraction between energy and economics, and the content and sense of the reforms in energy	connected with improving energy efficiency.	Prolegomena of energy economics science 1. The content, underlying propositions, achievements and conclusions of energy economics science 1. The content, underlying propositions, achievements and their interpretation in context of economical theory 1.3. Criteria of energy systems difficancy 2. The basics of analysis and evaluation of energy economical efficiency 2. The concept of energy efficiency in the context of sustainable development 2. The essence of analysis and evaluation of energy economical efficiency 2. The science of analysis and evaluation of energy economical efficiency 2. The science of analysis and evaluation of energy economical efficiency 2. The science of analysis and evaluation of energy economical efficiency 2. The science of analysis and evaluation of energy economical efficiency 2. The science of analysis and evaluation of energy economical efficiency 2. The science of analysis and evaluation of energy economical efficiency 2. The science of analysis and evaluation of energy economical efficiency 2. The science of analysis of energy
Innovative Construction Product Manufacturing Technology	6	To provide knowledge on innovative construction products and heir manufacting methods, and develop practical site in applying technical digital tools for the management and quality assurance of this construction information.	Technology exisitions for the manufacture of innovative construction products are acquired. Knowledge about the essential properties of construction products acquired, which are regulated at the national level. Students will be able to create this information in marging digital exchanges. Technical solutions are discussed while evaluating the advantages of innovative construction products.	1. Smart and advanced building materials - classification 2. Construction products and photovolusit systems 3. Inteligent (H* Tech) hermal insulation materials, coatings and systems 4. Involve (erran), corracte, specific building blends 5. Environmental Friendry (Eo Friendry) Building Materials 6. Building and the systems 7. Spray coating (elasionner: weakpricoling, diffusion, hydrophobic) 8. Data templass for construction roducts 9. Data templass for construction roducts 11. El and notherol legal ingulation of construction products 12. Sustainable and innovative construction products 13. Modern gooduction environment and He linepat on the technological process 14. Construction products 14. Construction products 14. Construction products 15. Classification of construction products 15. Classification of construction products 15. Classification of construction products 16. Classification of construction products 17. Super section products 18. Classification of construction products 18. Classification of construction products 19. Classification of construction pro

[]		To convey the knowledge about mechanism structure. To	Module is directed to develop knowledge and abilities	1. Engineering principles
Basics of Engineering	ē	give innoveloge about main principles of thermal and huld analysis. To give incoveringe about machine elements, and develop the ability to construct	In the area of mechanical systems discusse, main hypes of enchanicals. Subsets are taught to apply two welds be dot thermal and full for analysis of various constructions. This module is the bit bean to choose a proper standard machine elements and chock is functionally to clausities main generatical and functional parameters of non standard machine elements.	1. Vegetones of design 1. Vegetones of design 1. To be determined in the over the example of the example of the overall overall of the overall o
Engineering Mechanics	6	Acquire knowledge of various theoretical and experimental methods to describe the mechanical behavior of structural elements, undestand the main types of mechanisms, be able to select appropriate standardized mechine elements.	Students are taught to apply knowledge of mathematics, science, and engineering dealing with nechanics of materials under axial loading, torsion, bending, and combined loading, design components in smel desiand exercise in terms of stremgth and grobbins related to the response of materials to writics types of loading. To convey the howledge about mechanism structure. To give knowledge about standard machine elements, and develop the ability to construct.	Engineering principles I. Regineering principles I. The system of
Introduction to Biomadical Materials industries	6	Is provide knowledge about the file of the excerning community of Kaussis University of Tochnology, the essence of the study process in the faileds of chemistry and natural resource technology, and the spocific of the Biomedical materials industries program at the university. To provide knowledge about thomsical materials, achievements and perperchines, commenties expanding in the failed of processing natural resources and production of biomedical materials, and their contribution to Lithuanian industrial sector.	Excertises about the life of the academic community of Kannas Liverard of Tachnology, the assence of the study process in the fields of chemistry and natural resource technology, and the specific of the Biomedical materials industries program at the university is acquired. Knowledge about biomedical materials, their application opportunities, recent materials, their application opportunities, recent materials, their application opportunities, recent materials, their application opportunities, and their contribution to Lithuanian industrial sector is acquired.	3. Biometicali Materials: Classification and Applications 3.1. Recent Research, Achievements and Perspectives in the Field of Biomedical Materials 4. Application of Avanced Manufacturing Technologies in Biomedical Materials industries 5. Natural Resources Companies, Their Contribution to Lithuanian Industry 5.1. Career Opportunities
Introduction to Transport Engineering	6	To acquire knowledge about higher education, field of transport engineering study and programme particularly in university studies, develop abilities to study and general competences, allowing to understand content of studies, career possibil-ses, requirements of academic literacy.	Krowładga abach higher education and słudies in wirwesity, partucki fed of transport orgingening study, if specifica is acquired. Content of słudies is sized. Is possible i understand value of sóemlific information. Student is introduced to scientific research, career possibilies. Student is capable of preparing study tasks with accordance to require- matic. Competencies, needed to work in a team and studying individually are nutrured.	1. Philosophy of higher education 1. Philosophy of higher education 1. Vision and specifics of study ing in university 1.2. KTU academic culture and tethics 2. Fleid of studies specifics 2.1. Contant, aims and logics of study program, spectrum of specially activities 2.3. The interactions between system 'Vehicle - Driver - Environment' elements 2.4. Vehices of energy efficient and environmentally-ferindly 2.5. Intelligent Transport System S New Novement (Unmarred) and Communication Technologies 2.5. Engineering system of Terminal Logicalizac anter systems 2.7. Latest pandcar late of a visit of special system of solved problems 3.1. Careform January S System S Terminal Logicalizac anter systems 3.1. Scarefor planning. Perspective, required competences 3.2. Careform January S forms and templates. Quoting requirements 4.1. Types, structure and content of written academic works. It's language, style and vocabulary particularities. Description 4.2. Library: University S forms and templates. Quoting requirements 5. Orapingeness of sering able to study 5. Orapingeness of sering ables of sering objectives, time planning 5. The principles of effective presentation 5. Complements 6. Fundamentatis of professional (engineering) communication
Sensors	3	To provide students with knowledge about the classification of sensors, principles of operation, their main characteristics, asses of application, to develop students abilities to understand the physical principles of operation of sensors.	To learn to understand the main physical principles of the sensors, converters and collection of information. The abilities about sensors and convertises and indipitation of physical physical explosites that the sensor principles are kerned. The methodic of information gathering is mastered.	
Chemistry and Technology of Cosmetics	6	To get knowledge about the main materials used for cosmotics, their characteristics, ingredients function, and to formulate a cosmetic product.	Ceneral knowledge about raw materials used for cosmetics, their characteristics and main functions in cosmetics formulations is acquired. Knowledge about chemistry and technology of cosmetics, such as hair are products, shore any products, decorative cosmetics, personal hygiene products is acquired.	Cosmetic products, their classification. Requirements for cosmetic products 2. Types of raw materials used in cosmetics 3. Types of raw materials used in cosmetics 4. Formulation and preparation of hair care products 5. Shin care products 5. Shin care products 7. Methods of emulsions preparation 7. Methods of emulsions preparation 7. Report of the material products 7. Fore proveds, neg motive, plastics 10. Nail polish, eye mate-up products 11. Personal hygeen products 12. Desmetic manufacturing equipment. Sustainability and innovation in the cosmetic industry

Cultural Industries	6	Acquire he knowledge and stills for cultural and creative industries theoretical conceptualization, development of this sector, project creation analysis in the context of philosophy and mediality.	cultural and creative industries conceptualization and development, definition of culture as the human kind creativity, specifics of the implementation of industries programmes and projects, howes and understands sectoral profiles of industries, understands the disclogical, managerial, economic and policial contexts, which influences cultural and creative industries, theories of cultural and creative industries, strategic steps of projects creation, recognizes links between creative industries construct, knowledge economy and leadership approach, knows the impact of culture on media.	1. The conceptual ground for cultural and creative industries. 1. Toko conceptual ground for cultural industries and gradies. 1.2. The object of cultural industries, sectoral priorities and gradies. 1.3. Construct of creative industries according to knowledge economy and leadership. 1.4. The innovalewhechmological nature of creative industries. 1.5. Bedoigical, managerial, economic and policieal contracts, which are influencing industries. 1.5. Construct of creative industries according to philosophy approach. 2.1. Collural and creative industries according to philosophy approach. 2.2. Cultural and creative industries according to philosophy approach. 2.3. Cultural and creative industries according to philosophy approach. 2.4. Cultural and creative industries according to philosophy approach. 2.5. Cultural and creative industries according to philosophy approach. 2.6. Cultural and creative industries according to philosophy approach. 2.6. Cultural and creative industries according to philosophy approach. 2.6. Cultural and creative industries according to philosophy approach. 2.6. Cultural and creative industries according to philosophy approach. 3.7. Cultural and creative industries according to philosophy approach. 3. Cultural and creative industries groups and and according industries. 3. Cultural and creative industries groups and approach by the Exchronological and governance reforms. 3.2. Institutional and creative industries programs and projects implementation. 3.5. Substrative Econdural and creative industries development. 4.7. Success factors of Industries development. 4.8. Consequencies of Industries development. 4.9. Competencies of Industries development. 4.9. Competencies of Industries development. 4.9. Success factors of Industries development. 4.9. Success fac
Fuel Cells and Energy Storage Systems	3	To acquire the basic invertege of operating principles, design features, use in electric power generation, accumulation and supply of the various fuel cells and electrochemical energy storage devices.	storage devices applicable in various fields.	
Logistics	6	To equive knowledge and ability to apply function of logistics in order to solve the company's supply, production and distribution serves. To understand the grade and objectives of logistics, its importance in the product supply chan.		
Mathematical Analysis 3	6	The aim is to acquire the ability to analyze the elements of linear and surface integral, field theory and complex variable function Theory.	Line integrals: Surface integrals. Introduction to vector faid theory. Functions of a complex variable Contour Integrals. Lauret expansion of analytic function. Residue of an analytic function.	
Mathematical Analysis 3	6	To gain ability to analyze elements of line and surface integrals, field theory and offerential equations, to apply computational Smothas and logic and they manipulate concept of these theories. To gain knowledge of methods used to solve differential equations, to an skills in constructing solutions to first order differential equations and systems of linear differential equations with constant coefficients.	The theory of line and surface integrals of the first and second kind is taught, as well as application of such lingrals in field hereory. The concept of values the subsection of such characteristics of field theory. The concept of differential equations as a model for real world processes is presented. It is learned to construct solutions to first order equations, the concept of the differential equations and model to real world processes in presented. It is learned to construct solutions to first order equations, the concept of the differential equations and explain and the herey of uniqueness and explanation configured to systems of linear differential equations and 2nd order differential equations with construct solutions is present different techniques.	
Mathematical Physics and Numerical Methods	6	To get knowledge of vectorial and tensorial fields. To gain solution methods for differential equations with partial derivatives. To obtained knowledge for solution of different mathematical physics tasks.	Gained knowledge about vectorial and tensorial fields. Gained solution ways and methods for differential equations with partial derivatives. Ganet abilities to use obtained knowledge for solution of different mathematical physics tasks.	Scalar vectorial and tensorial fields in a plain. 2. Orthogonal vectors and tensors in 3D and multi-dimensional Euclidean spaces. Vectorial analysis. 3. Field theory in curlinear coordinals system. 4. Derivation of main equations in mahmetical physics. General integrats for these equations. 5. Finding general Solutions for officterial equations with particular diervalives using variable separation method. 6. Integration of mahmetical physics equations in cylindrical coordinate system. Besel functions. 7. Integration of mathematical physics equations in cylindrical coordinate system. Besel functions. 7. Integration of mathematical physics equations in cylindrical coordinate system. Legendre polynomiats. 8. Green's functions method.
Mathematical Physics and Numerical Methods	3	To get knowledge of vectorial and tensorial fields. To gain solution methods for differential equations with partial derivatives. To obtained knowledge for solution of different mathematical physics tasks.	Gained knowledge about vectorial and tensorial fields. Gained solution ways and methods for differential equations with partial deravatives. Gained abilities to use obtained knowledge for solution of different mathematical physics tasks.	Scalar vectorial and tensorial fields in a plain. 2. Orthogonal vectors and tensors in 3D and multi-dimensional Euclidean spaces. Vectorial analysis. 3. Field theory in curlinear coordinals system. 4. Derivation of main equations in mahmetical physics. General integrals for these equations. 5. Finding general solutions for offitterell equations with praintal derivatives using variable separation method. 5. Integration of mahmetical physics equations in cylindrical coordinate system. Besel functions. 7. Theydration of mahmetical physics equations in cylindrical coordinate system. Eagendre polynomials. 8. Green's functions method.
Design of Mechanical System	6	To provide knowledge of mechanical system design philosophy, design principles and methods, and design stages, and to device mechanical construction analysis skills necessary for making decisions during the design, performing systematic actualions, represent pechnical tasks and technical documentation, and independently designing mechanical systems.	The principles and methods of designing mechanical systems are learned. Knowledge of analysis of mechanical structures and systematic calculations and preparation of technical documentation of the product being developed is acquired. Ability to independently design mechanical systems using CAD software.	1. Conception of design 2. Standards: The stages of design and documentation 3. Standards: The stages of design and documentation 3. Application of general methods for products design and assessment 4. Product planning. Technical task. Conception 6. The modular design 6. The modular design 7. Computer adde design 8. Analysis and modernization of constructions 9. Journalistican et design 10. Product design, ergonomics, ecology

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Fundamentals of Mechanical Systems Design	6	To provide knowledge of metannical system design philosophy, design principels and methods, and design stages, and b dewidop mechanical construction analysis sitils necessary for making decisions during the design, performing systematic calculations, preparing technical tasks and technical docimentation, and independently designing simple mechanical systems.	The principles and methods of designing mechanical systems are learned. Knowledge of analysis of mechanical structures and systematic calculations and preparation of the-truined documentation of the product being devoloped is acquired. Ability to independently design simple mechanical systems using CAD software.	1. Conception of design 2. Subtracks. The stages of design and documentation 3. Application of general methods for products design and assessment 4. Product planning Technical test. Conception 5. Methods and principles of design 6. Term ondult are sign ergonomics, enology 7. Computer arkide design 8. Product design ergonomics, enology 9. Analysis and modernization of constructions 10. Dimensions and blerance stacking
Basics of Media Philosophy	6	To ecquire then nowledge about classical and contemporary media theories and find difference between traditional media concept and the view toward media which appears from new media reflection.	Students acquire the knowledge about evolution of media and is thereotical reflections: the tin't of media reflections in antiquity and modern age, the concepts of jonenes of media heroy, the evolution of the concepts in second half of Ziho entury and at the beginning of ZIN. Subtants are able to understand the the old rand the new result, in particular AI. Students are able to apply the concepts of media theories and understand the arguments of their critics.	
Architectural Materials	3	To know the properties of building materials, exploitation conditions, material compatibility in structures and be able to recognize and to analyse popular building materials and the understand the process of developing advanced building materials and their use.	Students acquire knowledge on the classification and common properties of building materials. They are able to select and the paly building materials from natural store and wood products, ceramic materials, gass produst, mail products, micrael horiding materials, concrete, motar, concrete and concrete products, corpare and symthetic binding materials and their products for buildings structures, heat insulation, docardian and other functional uses. Students also acquire knowledge of building materials and architecture infrasc. Students understand the process of developing advanced building materials and heir use.	
Urban and Regional Development	6	To provide theoretical introveledge and practices about urban and regional development management as well as to develop competencies needed to develop cities and regions.	During this scrute, participate will be introduced by bactoris and practices about the management of clies and majore along with aims and methods to develop a city or region. The interfacient will be able to identify, apply, analyse and evaluate various measures for city or region development.	
Nutrition and Food Toxicology	6	To provide knowledge and to develop competence necessary for evaluation the net of nutrition on health, not digestion and absorption, nutritients and energy balance ar well as the possible took compounds in too, their effect on health and quantity reduction possibilities.	The knowledge about the noise of nutrition in human hattin, nutritients and energy balance in human hody, food digestion and absorption, as well as the knowledge about the toxic compound in bod, their origin, netabolism and influence on human health are obtained. The methodologies of delary allvaneco measurement and energietic vulue calculation are measurement and energietic vulue calculation are measure to hod do comenniation. Lagoy delivent instrumental methods for traic compound analysis, to evaluate critically various delary guidelines are acquired.	1. Classification of toxic compounds and evaluation of their biological activity. Toxicokinetics and toxicodynamics 2. Abunally inherent toxins in mushrooms and animal tissues 4. Fungal toxins and their influence on thuman health 5. From the environment to food entering toxic compounds (food contaminants) 6. Toxic compounds from dougle contaminants) 7. Toxicological appets of use of food addives 9. Toxicological appets of use of food addives 10. Material and environment to food addives 11. Toxicological appets of use of food addives 12. Toxicological appets of use of food addives 13. Toxicological appets of use of food addives 14. Toxicological appets of use of food addives 14. Toxicological appets of use of food addives 15. Addives 16. Addives 17. Toxicological appets 19. Toxicological appets 10. Material and energy methodicinis in the human hooly. Energy demand and consumption 11. Toxicol digits and ababorgion of runnerins 12. The nutritional relationship with the health and quality of life. Principles of rational nutrition 13. Checke for monitoring of food components in human nutrition 14. The role of main food components in the digit. their energy and nutritional values as well as their evaluation 15. Biologically active substances and their role in the diet
Science and Technology Studies	6	To gain knowledge about science, technology and society studies, historical development of science and techology in relation to childshow development, Indextand the notion of technoscience and science policy, be able to analyse the impact of technologies upon society.	Student has gained knowledge about the concept and content of science and technology studies, Ib historical development, mijicalions in historikat of globalization and in comparately perspective, is able to describe and explain institutionalization of science and science policy, is able to discuss and analyze the social impact of technoscience.	Science, technology and society studies (STS): the object, concepts and content 2. The historical context and developmental perspectives of science and technology 3. Lifbundamia science policy 3. Lifbundamia science policy 3. Define and innovation policy (ST) 3. Other rational innovation systems (USA, Japan, etc.) 4. Shorture of science in revisions 5. Public participation in science, technology and innovation policy 5. Public participation in science, technology of technologies 7. Science and Innovation (technology and innovation policy 5. The valuation methods of social impact of technologies 7. Science and technologies 7. Science and technologies 7. Enclar and legapeds 7. Development of science and technology for sustainable human development
Development of New Product of Fashion	6	To get knowledge about stages of new product creation, to know principles of the choice of materials and technological processes for development of new textile product.	Will be obtained the basic knowledges about creation and development of new poducit, knowledges which will be ovaluate allogies of development of new fashion product (from idea to table market). During tables will be exclused ability to solve tables products development table from the point of creative and critical view.	1. Conception of new product development 2. Stages of new product development 2. Stages of new product development 3. Stages of new taskie and aspect a products market 5. Product aspect of involution it taskies and append products the product development in taskies 5. Development of a development in taskie company 7. Development of a development in taskie company 8. Product intellectual property
Aircraft Design Manufacturing Internship	12	Access be veletion the company activities and acquire skills to apply their threadical knowledge in runcical aircraft design, maintenance and producing processes tasks.	Assimating advanced aircraft maintenance and repair technology, the ability to use oxising outginnen in aviation company, the assessment of safety and coological production requirements, calegoin of aircraft maintenance and technological processes of repair of elements, equipment and aircraft systems to improve the design of aircraft structures.	

		Will gain knowledge about main building services systems,	Students acquire basic knowledge about building	1. WATER SUPPLY AND SEWERAGE SYSTEMS
Building Services Systems	6	(iii) gain actionedge ducklos and operation factors gains (iii) their components, selection and operation factors and will learn be design the water scopely, sewage, heating and withinkin systems of an individual restantial building, justification made decisions, prepare system drawings and other project documentation in accordance with the requirements of valid legal acts and good design practice.	Council acquire technologies and basic schemes of these systems, operation of these systems and explorent used in schemal, public one systems and publicity. Students occure possibility to name the haufdrigs Students occure possibility to name the features of installation and operation of these systems. Students acquire design skills to design systems and satic recessary devices for reademinal buildings, according valid legal documents.	1. In building water domand, hydraulic calculations, equipment, materials. 12. Building water systems, components, equipment, materials. 13. Building water systems, components, equipment, materials. 14. Building water systems, components, equipment, materials. 15. Building systems, components, equipment, materials. 16. Building system, components, Building System, 22. Building System, 22. Building System, components. 22. Heating system over regulation, Themed energy accounts, Types of heat carrier distribution systems. 23. Purpose, types and salection of heating system, components. 24. Design of heating system, functional calculation. 25. Heat generation and sapply systems. 26. Building System, Social Calculation, Status, S
		To acquire knowledge on purchasing management at an	The body of knowledge is built by learning the	1. Purchasing Management as an Organizational Function
Purchasing Management	6	organization by analyzing the process, context, and theoretical elements and, consequency to be able to practically demonstrate the skills of constructing a purchasing cycle in a contemporary business context.	purchasing cycle and its dominant practices. The understanding of purchasing management as an important function in the context of organization management is acquired. Aligor concepts, principles, and conditions are clarified, specifications and acquired theoretical knowledge is employed in a burdless of purchasing cycle stagas are analyzed. The acquired theoretical knowledge is employed in a purchasing cycle for a submitted to the purchasing purchasing cycle for a business company is constructed with the aplication of specific bools and techniques.	11. Purchasing and procurement concepts. Purchasing in organizational hierarchy 11. Purchasing Stepsize and organization 11. Purchasing Stepsize and comparized 21. Benefician and Planning: 22. Benefician and Planning: 23. Portabaling Stepsize formulation: 31. Contrast types and formation process. 32. Achieves and processes of contrast implementation and management 33. Contrast negotation: 4. Tornation of the Purchasing Cycle: 4. Torobs: supporting techniques, and platforms of cycle modelling. 4.2. Purchasing greater and ethors 4.3. Managing risk in purchasing. Sustainability and latest development trends.
Basics of Industrial Biotechnology	9	To obtain knowledges about modern industrial biotechnology achievements, industrial biotechnology and bioecomory development, to understant the production of organic acids, amino acids, sugar alcohos, vlamms, antioxidants, bioptistis technologies, to botain knowledge about natural bioactive components estraction, biochemical production.	The students are taught to understand the conception of modern industrial biotechnology. The students are taught to understand production of organic adds, amino adds, about technology of bioplastics and bioactive components and fractionation from plant bioactive components and fractionation from plant waterials, about thermical production of hioddesel.	Modem industrial biotechnology, 1.1. Development of industrial biotechnology, 1.2. Modem knowledges. 12. Modem knowledges. 12. Synthet biology, metabolic engineering, 2. Organic (corpono, sochic, chira, ascord) cadds, amino adds production. 3. Production of taugar alcohols (manifol, xylot), sochols and sonated materials. 4. Production of taugar alcohols (manifol, xylot), sochols, antioxatarials. 4. Production of taugar alcohols (manifol, xylot), sochols, antioxatarials, uncleants), uncleantarials. 4. Bioplastic and biocomposite materials tachnology basics. 7. Product engineering, product respring and composite glochnologies. 7. Plodicy englishing of notice and legislation. 8. Existenci and factoriation of natural blocelive components from plant materials. 8. Biochemical alcoresign of natural blocelive components from plant materials. 19. Biochemical advantaria decomposition of pollutions. 11. Biochemical advantaria decomposition of pollutions. 11. Processes of biochemical removing of biogram factorials. 12. Fundamentials in and infiliation processes. 13. Incompositionation and infiliation processes. 14. Processes of biochemical removing of biogram factorials. 15. Anotesing advantaria internationation processes. 13. Productional biochemical removing of biogram factorials.
		A theoretically-oriented unit meant to examine various concepts of security across social sciences and the evolution	To expose students to a range of core security concepts and their methods of analysis across various	1. Traditional approaches to security 2. Critical security discourses
Security Concepts and Their Evaluation	6	of these concepts over time.	social science disciplines. The examination of threats, risks and vulnerabilities as viewed from psychology, sociology, economics and political science covers core analytical approaches to security. It is a theoretically- oriented unit, which develops students' conceptual and analytical skills.	3. Securitization 4. Reagine security 5. Societal security 7. Gender and security 8. Peace studies
Basics of Fluid Mechanics	3	To acquire knowledge about the laws of fluid explinitium and motion, the conditions of equilabitium of forces acting on liquids. to be able to construct equilations describing them. To develop the ability apply the equations for the solution of fluid mechanics problems.	The students acquire abilities to understand the larks of full of eachies and the able to agoly them in practice. They are able to describe by analytical sequators definite cases of full de galaxitism and motion. To apply the equations for analysis of fluid mechanics phenomens. Sudents are and be to compute the main forces of fluid pressure, parameters of fluid fluid fluid in the energy and hydraulic losses of the fluid in to its desc donations and gene charantels, to calculate the energy and hydraulic losses of the fluid in the set set of the set of the set of the set of any set of the set of the set of the total system.	
Information Modelling of Manufacturing of Construction Products	9	To obtain a systematic understanding management of the manufacturing of construction products, using the deployment strategy of Building Information Model (BM).	Information modelling of manufacturing of construction products is acquired, which are to cold with the objectives of the specific implementation methods and processes, using means and ender of specific and information of the infrastructure needed to implement Bith is attend and needs of specialized jobs and how company staff parceives their responsibilities and roles.	1. Strategy of design and manufacturing processes of construction products using BM. 2. Schemation construction gold tight accidance to provide the antibulation of their manufacturing. 3. Strated of universal building data exchange and the project participant's communication with manufacturing. 4. Organizing BM pain and its benefits at the manufacturing plant. 5. Instructure needed to implement BM needs. 6. Rokes responsibiles and statisticate manufacturing plant. 7. Classification of construction products and its condition of their manufacturing. 8. Instructure medication generation of the manufacturing plant. 7. Classification of construction products and its condition state and manufacturing. 8. Integration of people, processes and manufacturing learneds. 9. Integration of people, processes and manufacturing learneds. 1. Levels of detail and information of BM templates. 11. Levels of detail and information of BM templates. 12. Design and implementation of manufacturing products. 13. Analysis of processes maps of digital construction. 14. Transfer devices of parametric data of construction products.
Technical Evaluation of Buildings	3	To acquire knowledge of essential requirement, the causes of collapses and defects, expertises and investigation of buildings. To learn to apply the methods of reliability evaluation of buildings.	Knowledge about the essential requirements of buildings, the means of evaluation of conformity of buildings to these requirements and investigation of buildings is obtained. Ability be valuate the defects of buildings and their parts, and durability affecting impacts is gained. Knowledge about the methods of determination of building reliability after collapses and shoulding estimation of building reliability after collapses attochard defects to solutined. Experience of preparing recommendations for repair and modernisation of buildings, ensuing her conformity to essential requirements, is gained.	Essential requirements of buildings Expertise and investigations of buildings Expertise and investigations of buildings Methods for evaluation and reconstruction of strength and sability of buildings after collapses and deformations Methods of evaluation of relations Methods of evaluation of relations Methods of evaluation of relations Methods Automatic and experiment conditions for people in being buildings and near the buildings Methods Networks Methods Methods
Technical Evaluation of Buildings	6	To acquire knowledge of essential requirement, the causes of collapses and defects, expertises and investigation of buildings. To learn a papy the methods of reliability evaluation of buildings.	Knowledge about the essential requirements of buildings, the means of evaluation of conformity of buildings to observe quirements and investigation of buildings is obtained. Ability to evaluate the defects of buildings and thera that, and durabilly affecting impacts agained. Knowledge about the methods of determination of building reliability affect about a defects is obtained. Experience of preparing about and defects is obtained. Experience of preparing buildings, ensuing their conformity to essential requirements, is gained.	1. Essential requirements of buildings 2. Expertse and rivestigations of buildings 3. Expertse and routings 3. Structure and conflox routings 4. Structure and rolline routings 5. Defect and defect detection 7. Safety in use of buildings 8. Noise management in buildings and building environment 9. Solubation of energy efficiency and heat conservation in buildings 10. Defects and durability of building elements 11. Safety of used building elements 11. Safety of used building elements 11. Strategy of reaction and moderization works of buildings 12. Technical and economical justification of restoration and modernization works in buildings

Heating, Ventilation and Air Conditioning Systems	9	To provide knowledge about the types, equipment, installation, control, operation of heating, cooling, weritalizon and air conditioning systems in buildings, and to develop the design competencies of such systems.		2. Heading and cooling 2. Themaic confirm in buildings 22. Types and features of heading and cooling systems 23. Water heading and cooling systems 24. Hybrid and cooling systems 25. Local heading and cooling systems 25. Archaeding and cooling systems 27. Archaeding and cooling systems 28. Social heading and cooling systems 29. Social heading and cooling systems 29. Social heading and cooling systems 21. Cool heading and cooling systems 23. Encloadeniang and cooling systems 23. Encloadeniang and cooling systems 31. Calculation of what heading and cooling systems 32. Acrodynamic couldarion of what heading and cooling systems 33. Calculation of what heading in buildings 33. Calculation of what heading and cooling systems 35. Social cooling heading what heading and cooling systems 35. Social cooling heading what heading and cooling systems 35. Social cooling heading what heading and cooling systems 35. Social cooling heading what heading and cooling systems 35. Social cooling heading what heading and cooling systems 35. Social cooling heading what heading and cooling systems 36. Cooling heading what heading and cooling systems 37. Hybrid cooling heading what are conditioning project, drawings and bil of materials 41. Transet of heading heading and cooling systems 43. Heading moling heading what heading and cooling systems 44. Fundamental to an heading and cooling systems 44. Fundamental to an heading and cooling systems 44. Fundamental to an heading and cooling systems 44. Fundamentals of heading and cooling systems 45. Tract of theading and cooling systems
Heating, Ventilation, and Air Conditioning Systems	6	To provide knowledge about the types, equipment. Installation, control, operation of healing, cooling, ventilation and air conditioning systems in buildings, and to develop the design competencies of such systems.		
International Textile and Clothing Industry	6	To provide knowledge about global textle and clothing industry, production technological processes and quality management.	Knowedge about international textle and ciching undustry, it's poculities and tendinous of development are provided. Processes and exploments of product development and production are studied. Knowledge about quality management and ciching, to propare and analyze production biorhological documentation are taught. Knowledge about general principles of technical design of chiling abortological documentation are taught. Knowledge about general principles of technical design of chiling biorhological documentation are taught. Knowledge about general principles of technical design of chiling produce as built.	3.1. Production development proceses 3.2. Project of production proceses
International Trade Operations	6	To assimilate knowledge of international trade operations management, be able to evaluate import of export and import operations benefit to a company, to make decisions on export and import policy formation.	Knowelege abort the specifica and indicators of immanional trade ingode and services is acquired. Abilities are gained to evaluate the impact of digitaciation on the development of international trade. The students will be able to apply evaluation of the pocularities and consequences of the use of immanional trade operations control and regulation forms and methods. Abilities are gained to plan and organize international trade operations while evaluating a company's opportunities, choosing potertial export markets and forms of international trade operations. Abilities are gained to prepare an export contract and export prioring strategy according to the needs of a company.	1 Development transd criteriational trade 1. The impact of diplication on the development of international trade. 1.2 Specification on international trade in poods and services 1.3 International trade in the context of seasimability 2. Regulation of international trade poralization and economic integration conditions. 2.2. Restrictions on international trade in services and their liberalization. 2.3 Restrictions on international trade in services and their liberalization. 3.4 Density of the distribution of international trade operations. 3.5 Analysis and export and import operations regulation and evaluation of the using. 3.6 Analysis and evaluation of a temperative potential and needs to export and import operations form. 3.8 Jeanonia and analysis of a constrainty operations from. 3.3 Selection of export and import operations form. 3.4 Export contrained rule arbitrations form. 4.1 Coastoms activity and functions in modern conditions. 4.2. Procedures and control of export and import operations. 4.3 Development and integrations form. 4.4 Double activity and functions in modern conditions. 4.2 Procedures and control of export and import operations.
Technical Creativity and Intellectual Property	3	To provide knowledge of the principles and methods of creating technical innovations and to gaton competences in the development of new knohraid objects. Jo develop the skills necessary to apply the legal protection of intellectual property.	Technical creation and its management principles. The importance of simulation, optimisation and delays, lakes and principles of investion taining. Costion and legal protection of Instituctual property. Patenting of technical impositions. Ecodesign methods of new behavioral problems, the sector of analogues to behavioral problems, the sector of analogues so metalation and definition of design process sequence. The solution of concrete technical problems.	1. Principles of technical creation management 1. Engineering tasks 1. Engineering tasks 2. These man spheres of engineer work 2. These man spheres of engineer work 2. Simulation 3. Application of the principles of sustainable development in the product development process. 3. Application of the principles of sustainable development in the product development process. 3. Application of the principles of sustainable development of products 3. Application of the cycle approach 3. Application of the cycle assessment of products 3. Application of the cycle assessment softwares 3. Application of industal alcycles 3. Application of industal alcycles 3. Application application of industal alcycles 3. Application applies 3. Application applications 3. Application applications 3. Application applies 3. Application 3. Applicat

Textle Technology	9	of textile materials.	textile manufacturing: spining, weaking, knitting, formation of nonworks, finishing and structure of textile materials.	2. Spring technology 2. Spring technology 2. Process of years and threats 2.2. Production of yams and threats 2.3. Varian of compare structure 2.4. Serving threats and electrical conductive threats 2.5. Braided and twicked taxle products 3. Knitting systems of the descinctionation of the structure of the technology 3. Knitting systems of the descinctionation of the structure structure 3.4. Main stoges of manufacture knitted gammatis 3.4. Main stoges of the descinctionation of the structure structure 3.4. Main stoges of manufacture knitted gammatis 3.4. Main stoges of the descinctionation of the descinction of textiles materials dying and printing 6.2. Mechanical and chemical finishing of textile materials dying and printing 6.3. Formation of textiles materials with functional properties during finishing
Network Effics	6	To acquire knowledge about the basic ethical categories, moral principles, norms, the specifics, the importance of network ethics, the classical ethical theories, the most important authors.	Students acquire the knowledge about the basic ethical bears and their features, the most important philosophers. Philo, Ashola, I. Kant, and a stude the automation of the standing of the students and the student of the standing of the student explicit contact of network which is become able to analyze the sources, to operatin the therma of the pays the various theoretical models to understand the globalization, to know information ethics, to deal with information and communication issues emerging in the network society	1. WHAT IS ETHICS? 1.1. Ehics and Ethios 1.2. Ehics and Ethios 1.2. Ehics and Ethios 1.3. Ehics and Marcally, the Problem of Relativism 1.4. Ehics, Religion, Individualism, Revoil 1.5. Why Nealow Chines, Theorem 2018 adoptional of Network Ethics 2. Net WORK ETHICS: AND IT 2.2. The Moral Status of Information and Information Technologies 2.3. Virtual Communities, Related Oremation Technologies 2.4. Moloi Phone, Dialogue, and Aukonomy 2.4. Dialogue and Aukonomy 2.5. Digitized Ethics: Offlering the Other 2.5. Digitized Ethics: Offlering the Other 2.5. Digitized Ethics: Offlering the Other 3.5. Sustainable Development
Business Effics	6	To deliver knowledge about business ethics, interaction between humans, data and advanced technologies as well as peopliarities of such interaction, beater ethical business decision naking for managing humans, data and advanced technologies. Is consult and develop business ethics for current and hume erganizations.	about business ethics in the world of human, data and advanced technologies. Knowledge about ethics theories, complexity of ethical issues and risks as well as skills of using relevant research literature develop competency to make ethical business decisions, select and implement instruments for ethical management. In real business cases students learn to develop arguments, to evaluate, implement and develop arguments, to evaluate, implement and develop arguments.	Efrical Discourse of Evolution and Impact of Advanced Technologies on People and Businesses 1.1. Evolution of technologies, społawia and transdisciplinary tech 1.2. Efficis and innovation business another, sinchial tech involvations 2.1. Trans. A more and ofgolal environment 2.1. Trans. A more and ofgolal environment 2.2. Efficial People and People and People and People 2.2. Efficial People and People and People 2.2. Efficial People and People and People 2.2. Efficial People and People and People and People 3.2. Business efficions and refigurates of Dispatch People 3.2. Business efficions of Pahana, Calaboration and Official People 3.2. Business efficions and refigurates of Dispatch People 3.2. Business efficions in reflexative and GIG economies 3.2. Business efficions in reflexative and GIG economies 3.2. Business efficions in reflexative and GIG economies 3.3. Efficials intergence, reverse, and circular engineering, rhougal innovations 3.3. Efficials intergence, reverse, and circular engineering, rhougal innovations 3.4. Efficial official prace, responsibility and conviction 4.1. Display endoticals, and thread, reading the display and prace, technologies and display and prace, telepoint, and the web 4.4. Efficial display endotics, and thread web 4.4. Efficial display endotics and thread web 4.4. Efficial display endotics 5.1. Display endotics web settems, and CSR 5.2. Efficial Revised web settems 5.3. Challenges, limits, and the future of business ethics and hyper-callectivities 5.3. Challenges, limits, and the future of business ethics 5.3. Challenges, limits, and the future of business ethics 5.3. Challenges, limits, and the fut
Human Resources Management	6	To acquire the basic knowledge of human resource management policies, as well as be able to understand the kky human resource management principes, to develop abilities to process and evaluate information and apply it to the adoption of human resource management decisions.	resource management decisions are gained. It is taught to carry out personnel accounting and statistics, to usage main methods of personnel need planning, workplaces and employees evaluation. Students learn general personnel selection, development and career	1.2 Environment of human resources management 1.3 Human resources management legal regulation 2. Human resource management indicator 2. General indicator 2.2. Specific indicator 2.3. Methods of naniyae

Study modules for Master's degree programmes

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Nana	Credits 6	Purpose To develop allits of improving and develops metometering priory - oritically evaluate existing context (legal basis and practices), create possible solutions and present them in an argumentative manner	Description Descri	Capture and topics Invironmental policy: Interactical and postcolar distributions, Introduction of the research topps on the issue 2. Stuchard acta grant postcolar and postcolar distributions, Introduction of the research topps on the issue 2. Stuchard and postcolar and postcolar distributions, Institution of the mesodor. (EU and Liftwarian content) 4. Standard and pagements and Agenteria Stuchard and postcolar distributions, Institution of the issue 2. Stuchard and postcolar distributions 2. Stuchard distributions 3. Stuchard distributions 3. Stuchard distributions 3. Stuchard distributions 4. Stuchard di
Renewable Energy Engineering	6	To acquire knowledge of technologies for transforming of nerewalke energy into thermal and electric energy, to learn methods for selection of equipment and design of thermal engineering systems.	and biomas, biogas energy technologies and efficiency of them.	Inogan of the renewable energy resources vecovery in Lifewahia until 2020 and 2050. Solar weights.
Sustainable Development Policy, Law and Economics	6	Provide the specific knowledge and develop the competences how to stimulate technical and technological change, business transformation, società behavioral changes and address broader issues of sustainable development using of the law, policy and economic instruments.	The module goes beyond the traditional lopics and addresses the information-based obligations of industry, enforcement of environmental low, market-based and volutery alternatives to braidmail regulation, risk assessment, environmental councies, and technological models market brain addresses During the module the trovaledge on the important issues in environmental law, policy, and economics all the information. The subset of law goes of substrational brain addresses installate transmission and address blooder issues of substrational development using of the law and policy.	Economic Development, Globalization, and Sustainability Zindustain Dridy and the Role of the Time in Parsing Statisticability of the Sustainability office decomic research: mean-interhendology, at the bases and integration of A Climate barge and the tigat regulation Sustainability office Role Role Role and and International Regil regulation Financing Sustainability Development Sustainability Development To Britistyc Policy Design for Sustainability
Sustainable Energy	6	To acquire howkedge and competinoses in integrating economically sound and environmentally and accessible sheetal innovations in substatules energy development, understatule the main track in its development of energy from the tracket of channels and but to retreaded energy sources, but understand the benefits of aclassism in the context of channels change, to acquire practical knowledge in the preparation of problem-based teaming.	possibilities and poculatities of the use of renewable energy technologies, the importance of increasing energy effections, Students all index plot the tabilities to any tables the shortages and disadvantages of renewable energy technologies, team how to adapt technologies to specific environmental conditions, gain locatedge about their environmental impact and economic and social attracts of development.	1. Oxidal release jorduction and consumption 2. Data gradem 3. Data of release be energy in dimate sharpe prevention 4. Data of release be energy in climate sharpe provention 4. Solar Consequences 4. Solar Consequences 4. Solar Consequences 4. Solar Consequences 4. Contemport
Design of Sustainable Value Chains	6	To time the competency to evolution the value chains, using the hoticit approach and methodologies for evaluation the value chain systems from the economic, social and environmental aspects.	This disciples will give the following smalls. Including and understanding of the basic methodologies to the systemic analysis. A Molity is evalual the regime sizing an information (a contain and a south analysis methods). The talkedis will be an elevationality data with the importance of the information is so and their reliadous with the correct economic production, and the analysis and the possible methods. The talkedis will the method systemic . Solverts will be able to a subject and analysis and and the statistication of the methods systems. Solvers will be able to a subject and analysis model of the valuationability of the methods systems. Solvers will be ables a subject and of the indexidipt to the real context will be based on the choicing based tearing.	1 Concept and defailtion of usite others and interfaces with other systematic enclosiogues 2. Scatannichility sease all attentive model of collaboritori within vulne datas 3. Netradicad vulne chaine attimite the sustainable development context 4. Availysis of the vulne chains and methods for the vulnerable management (Biocnterg) 5. Information flows, cala analysis and IT. The vulner chains 6. Note chains 6. Vulner chains 6. Vu
Sustainable Buildings and Cities	6	To provide trookedge about sudainable buildings and cities and to develop skills to critically discuss and evaluate the relevant context.	The concept of solaritable, circle or an agreemitive construction are largered from degle about the memory of the solarity of the solarity automative buildings and cities is acquired in order to memory and the solarity experiment them in degle and meetable with the solarity will be able to perform building life cycle analyses.	1 Procipies of outputs the construction, gene hulding confliction systems. 2 Providers of outputs expensively, and the providence of the construction of the construction of the construction of the construction. 3 Provide a construction of the co
Negolation and Conflict Management	6	To mater executed to out-legal or application and conditiciting and be able to put from the particle to young values attemption and backs of explanation, technique of applications and questioning, by choosing optimal methods of diagnostics and resolution of conflicts.		1 Conception despetition 1. Detection of pregration 1. Detection of pregration 1. Prolification and the effect of regulation 1. Provide and interests of regulation 1. The production of the engineering of the engineering of the engineering 2. The production of tension is regulation 2. The production of tension of the engineering of the engint of the eng
Energy Systems	6	To acquire knowledge allow) the energy recourses in power systems, power systems abucture, operational framework and strategic concepts.		1. Storger mesources 1. Storger mesources 1. The hysical density resources 1.2. Revealed ensity resources 1.3. Revealed ensity resources 1.3. Revealed ensity resources 1.3. Revealed ensity resources 2. The storger system and its componence 2.1. Storger shows and its componence 2.3. Common store and its componence 2.3. Common store and its componence 2.3. Common store and its componence 3.1. Revealed the ensity resources 3.1. Revealed the ensity resources 4. The ensity regioner and the componence 3.2. Common store and its componence 3.2. Common store and its componence 3.3. Common store and its componence 4.3. Comparison of the ensity regioner 4. Storegy of ensities 4.3. The company ensity resources 4.3. The ensity region and ensity of the ensity region and ensity 4.3. Comparison of the ensity regioner 4.3. The ensity region and ensity of the ensity region and ensity 4.3. Comparison of the ensity region and ensity 4.3. Comparison of the ensity region and ensity 4.3. The ensity region and ensity of the ensity region and ensity 4.3. The ensity region and ensity region and ensity 4.3. The ensity region and ensity region and ensity 4.3. The ensity region and ensity region and ensity 4.3. The ensity region and ensity region and ensity 4.3. The ensity region and ensity region and ensity 4.3. The ensity region and ensity region and ensity 4.3. The ensity region and ensity region and ensity 4.4. The ensity region and ensity region and ensity 4.4. The ensity region and ensity region and ensity 4.4. The ensity region and ensity region and ensity 4.4. The ensity region and ensity region and ensity 4.4. The ensity region and ensity region and ensity 4.4. The ensity region and ensity region and ensity region and ensity 4.4. The ensity region and ensity 4.4. The ensity region and ensity r
Markets of Energy Resources	6	To master knowledge and patterns of the modern energy markets.	To get knowledge on the entrop mattel negativities, eccorecis of girst and diversional parts plants, according to the defaultion of ground parts and their using. To get transledge on methodships of elemination of ground parts and the state of the state of the state of the state To analyze the researce of the latitity generation and negativitian of electricity market, the tegal majaban of energy scale. The organization of the latitity control of electricity market, the tegal in the European countries, the USA Lifetures and the balan countries.	1. Shergy policy and parkispins of devicing market 1. Shergy policy and parkispins of devicing market 1. Shergy policy and parkets a vision contrinis 2. Buchar of devicing markets a vision contrinis 2. Buchar of devicing markets a vision market markets 1. Devicing of devices markets and exploration 3. Devices of devices in methodicing of utilit determination in regional market 3. Devices of policy markets a vision of the markets 3. Devices of devices in methodicing of utilit determination in regional market 3. Devices of policy markets 4.2. Clinist dange and only markets 4.2. Clinist dange and only markets 4.3. Devices of policy markets 4.3.

		Coin innulates shout enemy model emerivation the ship to perform an economic analysis of the	Milia shuhinn tha mohila tha avaluation sonarte of anamu notice ara undaretood. Tha analysis	1 The envening isoterative for energy unity
Regulation and Management of Energy Resource Manada	6	Gain howedge about energy market organization, be able to perform an economic endpsis of the stochuse of the energy market, understand the interactions among market shochuse and market power.	While subject the evaluation superts of every policy are understood, the analysis needed to distinguish, develop and evaluate policy measures for solutions of energy problems is emphasized.	11 The scored patholism for energy policy. 13 The scored patholism of the score policy. 13 Every subory energies of the score policy. 13 Every subory energies and the score policy. 13 Every subory energies and the score policy. 23 Policy of the score policy. 23 Policy of the score policy. 23 Policy of the score policy. 31 The score policy. 31 The score policy. 32 The score policy. 33 The score policy. 34 Liable policy. 35 Norwaldon, research and development in energy makets. 45 Togs y and environmental these. 35 Documents. 35 Docum
Climate Drange Miligation Technologies	6	To develop skills in analyzing the causes of climate change and apply technological and organizational measures to reduce, manage and adopt to climate change.	Kowledge a detained on climate change, its parameters, global and regional climate change projection. Natilites a gained on analyzing climate change impact and management in world installa all analyzed systems. The towards or climate change impact and management in world sublicitation and strategies and strategies and strategies and strategies and strategies and sublicitations and strategies and sublicitation for some change. Knowledge about carbon double capture and stratege and utilization technologies is acquired.	1. Historical conversion of christer charge seamedes 2. Bruchs topic of model and their exaluation 3. Clinetic budge contraction of the exaluation 3. Clinetic budge contraction of the exaluation 4. Assessment by variance and management in word response 4. Assessment by variance and management in the other explores 5. Respectively and the exalt of the exalt of the example
Comprehensive Studies of Risk and Security Issues	6	In 6 declarged backs and systematic binking by ontrolling meeting and searcing a wide range of compare proposition. A local public health, technological, environmental, and economic risks and dwalenges to security.	The tablet is define tagely interformationary honorloging and rule assessment methodoging to a control systemic discussed of approximited methods with a second se	1. Holocological and an electrony bases 2. Overview of hemation lase accury organis 2. Overview of hemation lase accury organis 2. Overview of hemation lase accury organis 2. Now lase accurs view of lase accurs terrarian 3. Now lase accurs view of lase accurs terrarian 3. Decident lase accurs terrarian 3. Decident lase accurs terrarian 4. Relate post of hematistical contexts 3. Decident lase accurs terrarian 4. Relate post of hematistical contexts 3. Decident lase accurs terrarian 4. Relate post of hematistical contexts 3. Decident lase accurs terrarian 4. Relate post of hematistical contexts 3. Decident lase accurs terrarian 4. Relate post of hematistical contexts 3. Decident lase accurs terrarian 4. Relate post of hematistical contexts 3. Decident lase accurs terrarian 4. Relate post of hematistical contexts 3. Decident lase accurs terrarian 4. Relate post of hematistical contexts 3. Decident lase accurs terrarian 4. Relate post of hematistical contexts 3. Decident lase accurs terrarian 4. Relate post of hematistical contexts 4
Food Law	6	To provide howledge about the modern boot regulatory framework in the EU and globally and to develop the kills mediced to sene the height diffugition of the dot surverse operations, starting from excerning the kills mediced with the difference of marketing and tabeling or consumer protection and information.	Knowledge about the modern flood regulatory transecrit in the EU and globally, anging from safely and quality distributions are processore for revely developed or mainteel floods. It bods making and proceedings and developed on the safety of the safety of the safety of the safety of the mainteeline secondle for international and realized blobal transmissions and safety and classifies of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the and the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the and the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the saf	1. Development of domestic, EU and international lood law 2. Bry dements of bool law and produces at PlayBloor 2. Bry dements of bool law and produces at PlayBloor 2. Bry dements of the two movement of bool 3. Bry the movement of bool 3. Bry the movement of bool 4. Bry the movement 4.
Low Energy and Modernized Buildings	6	To acquire the twoelded, of the corp simplies of design and construction of two-energy and moderate buildings (CE MI)), be develop tably to analyze the possibilities of using remeable energy in buildings and to perform I.CEB. All energy efficiency assessment and integration of the obtained results with BM projects.	Acquires translega about LCES Mic concepts, energy efficient building patienting and construction solutions, used nearbins and construction technologies, efficient faulty, maintainen, hot weeks, lighting and household systems of buildings, expanses for energy production from remeable energy associates. It is possible operation in the solution of a series graduation for the solution, gas a solution of the solution gas and the solution of a series graduation of energy production from remeable. If and the solution, gas and explanal constraination of energy production from remeables and herr systems and energy production facilities. Ability to model heat loss and paylack time of building.	1 Concepts for the energy and small halflings 2. Content impact on two energy haldings 3. Particino constructions for an energy haldings 3. Particino constructions for an energy haldings 5. Institutions for an energy haldings 5. Institutions for an energy haldings 5. Institutions for an energy haldings 6. Institutions 6. Instituti
Low Energy Buildings	6	To acquire the knowledge of the core grinoplan of Low energy studings 0.02(B) design and construction, equivalent lises analyze the postfold for menuable energy use in buildings and to carry out LOEB energy efficiency evaluation.	Knowledge 1 CDEE corcept, energy efficient design and construction sublants, building materials and construction behavious is obtained. Knowledge of effects healing, variables of the energy production brain efficiency of the building of the internal more structure of the energy production brain efficiency of the building of the internal more characteristic structure structures of any energy production from ensemble energy sources and these using the energy from the buildings, and to evaluate the efficiency of LDEB and their systems and energy production applicance is obtained.	1. The concepts of low energy building 2. The effect of lines to energy building 3. Design classes of low energy building 3. Design classes of low energy building 3. Design classes of low energy building 5. Design classes of low energy building 1. The case of energy produced in memory energy sources 1. The classes of low energy building 1. The use of energy produced in memory energy sources 1. The classes of low energy building 1. Design classes onerge energy 1. Design classes
Nardscholigies in Power Engineeling of Alternative Fuel	6	To acquire basics of reasonations and a context-brokey and a stammative left (hydrogen) energide. Is too he has chosen the materials and schools give hydrogen procession, storage and a electochemical conversion research and development and engineering works.	To know and understand mana assas of thy drogen energy fectorologies (hydrogen postudonis) energy of the provide postudonis of the provide sector of the p	1: Emergy and dpatial serving 1: Compared and a dpatial serving 1: Fully and a dpatial serving 1: Fully energy technologies 1: Full
Building Energy Demand Modelling	6	To denders balls to analyse the fulfilling energy consumption taking rise account various and e and complex architectual-construction solutions and determine the optimal contributions based on chosen criteria.	Scowledge doubt he method of analysis of the architecture devices and before of the building is assigned. The student bit acte bit analyse the information of the architecture and advance the building on the annual energy demant. The students will be able to use software big- dimeted advance according to selected cities and to perform building assessment according to the others defined by legal acid.	
Indoor Climate	6	Data throadege or all cashing, termal visual and accounts conduct to buildings, as and as ta impact or comparise. Other tables to be estimate polarization ascense, thermal conductions. Develop aparts to perform indoor environmental quality predictions by means of numerical computational methods.	Countery in human hearing registrice, hermal messation and indicor unservative for behavior and scheme tablesheight of an position scheme in budding and eitherene et al position on coccupant health and productivity a gained. Altificiare an obtained of editing a schemed health, werthalten and all conditioning systems in hubitage to ensure microcitanite conditions in a sustainable way. Knoeledge about methods of indoor climate and verifiation effectiveness evaluation are acquired.	Thermal control to buildings: Human sensation and environmental facture Z - profundine numeric and a politichin is habitary A factor classification of a contract in habitary A factor classification is buildings S. Aré databasification is buildings S. Aré databasification is buildings A constain end in visual control of an ideatibuilden and indexe environment in buildings A constain end in visual control in buildings
Indoor Environmental Assessment and Design	6	Providing skills to assess, perform simulations of indoor environment in building (themat comfort, ar quality, acoustic and visual comfort, select design solutions to ensure indoor comfort.	Photoing provideg about hums therenegalately functions, the hermal environment sensition, and parameters influences the hermal environment hubblings. Examing possible of all containnais to buildings, the inspect of harmit air pollutaris on human weit-lenge, harth, and poduchiny. Photoing sails to sette design adubtos for index dimats. Nexes the production of numerical modeling and design toxis, and appy methods for evaluating the effectiveness of hermal conflox, air quality, and vertiliation systems.	1. Temar conduct in buildings. Hennes sensation and environmental factors. 2. A production scarce and a productivity in buildings. 3. Index climate impact can concapate theats and productivity. 4. A vehicultion clineConst and evaluation methods. 5. Ar detatholican in buildings. 6. All controlscards and evaluation methods and index methods. 7. Systemic design and management of indoor environment. 8. Accounties and vehicultant of the scarce and vehicult
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[To develop communicative competence in learning pronunciation, grammar and acquiring vocabulary.	Able to understand and use familiar everyday expressions and very basic phrases aimed at meeting	1. Vocabulary formation and development of linguistic competencies
Studes of Modern Languages (Level A1)	6	To teach basics of reading, writing, itstering and speaking,	the needs of a concette situation. Also be introduced initiations and others and can ask and answer quantitions also genomes that have a start the first specific the table in the specific the table is the set of the first table is a start of the set of the specific table is the set of the set of the specific table is the set of	11. People and places, Frances people 12. People and places, Frances people 12. Communication and internation 12. Family, Learner Minne 13. Family, Learner Minne 14. Family, Learner Minne 15. People and the place of the place of the place of the place of the place 20. People and the place of the place
International Institutions and Cooperation	6	To develop a broad hexerical understanding of the rise that institutions play for international cooperation on diverse issues of global police.	International cooperation is official for realizing beneficial global solutiones on issues that range from from cinste charges and biodivensity on the stars of formatisativity or sourch, dearmaner and beyord. Initiations are the basis of international cooperation, trapping the efficiences and tables and global generational deaptible microsoft action and subcomparison. A house the weeks understanding of the role that institutions play in international cooperation is essential for the cooperation has evolved in the discipline of Hermational Relations.	1. Asactly and Asgements exhibity 2. Complex Interlegenders 3. Intensis and cleas 4. Intensis and cleas 5. Lapitational control 5. Lapitational control 6. Capacitation and control 6. Capacitation and control 6. Capacitational ecology 6. Capacitational
Sustainable Production	6	To obtain an understanding of the provides of autianable production, possibilities and devaluage of the implementation in the industry. To acquire branching on the sharpland of a warrange of contemporary inchroitopies aiming to increase the efficiency and sustainability of postcolor processes. To advice a postcole sitial we have applied on ideologies of the assessment and and applications processes and technologies as well as to the generation of dates for their modification.	Evolution on the basic principles that guide modern science and technology towards a valuer implementation of subationality in the industry acquires. The ability borner complex analyses of points for publication reduction, resource consensation and recovery while considering particularities of various national sciences (functional, both solutionity of guide in an analysis and particularity of various national sciences) (functional, both solutionity of guide in an analysis and particularity and various national sciences) (functional, both solutionity of guide in an analysis of particularity of both care. The particular ability on integration of traveledge and advanced processes based on the principles of nano- and bio-technology, green chemistry for sustainable production are gained.	1. Procipes of Subandar Productors and the Product, Process and Stytem Lavels. 2. Deviniented ProJos Management Tools for Underlind Subannialisty. 3. Devineer of Hostahid Statistical Processes, Challenges and Opportunities. 4. Schwarter of Productors Processes, Aprile of Lavels Conference and Chern Methods of Evaluation. 5. Material for Subandar Productors Processes, Chern Alter Alexandre of Productors 6. Material for Subandar Municharing. 8. Subandar Management Technologies in Industry. 8. Subandar Material Municharing 8. Subandar Materian Material Muni
Management of Persons and their Groups	6	To provide essential management knowledge and abilities for persons and their groups in an organization that enable the organization is successfully achieve its activity goals.		1. Essence and incruise of melagement in an organization can well as skills necessary for 1 2. Model and process of mesagement in an organization of the second se
Challenges for Social Weffere in XXI Century	6	To posicio comprehensive complex localidge about humon envelopment, collera to fra analysis and complex categories to recald wellers in Oranizy and be developmentice to analysis global and local invests of social development, to Solentify and systematice the data about human development at country level and to conduct comparative analysis.	Stader tha acquired comprehensive and complex transienting about human development and the crimiter for an analysis, and analysis gives, includent and local challenges social vertices in structural any using human development guidance. Iband proposals for the solutions of human development problems.	
Active Electrical Network	6	Te develop studentir dablies about schw power websofks to which reversable energy generators are connected and to learn to calculate the tasks of power system active relaxeds management.		1. Induction. The kinds of electrical power reflexiols and elements 2. The signing of more statistical power reflexion requires 3. The property of the statistical power reflexion requires 4. The property of the statistical power reflexion requires 4. The property of the statistical power reflexion reflex
Environmental Policy	6	Te develop skills of improving and developing environmental policy - ortically evaluable existing context (Regal basis and practices), create possible solutions and present them in an argumentative manner	Students will acquire knowledge about the main environmental policy documents, institutions, basic principies and instruments, environmental institution and the doctors influencing the formation of environmental policy, will be able only on derivionmental policy and implement scolar populs in the spikes of environmental policy.	1. Environmental policy: Neoretical and practical definitions, introduction of the research scope on the issue 2. Structure demonstrated geogradian 2. Structure demonstrates and the structure demonstrates and there d
Environmental Systems' Theory	6	Ta grande knowledge hoe System: Theory can be used as environmental decision networks grandess angendres social covers and hybrical-bodynal speech. Specific specific to device 30 km in applying System: Theory for interdoptinary focus or environmental problem decisions, to understand he improve or grandess cover and optimization in prevention environmental and the a provide knowledge and skills is develop environmental management systems, decision-making support models in environmental activities.	The compart of spitnets therey, its main principles and method are series forwards, or the spitnets theory as upplicable to be maralysis and principles. Theory as upplicable ecological and socio-economic systems, and to the development of decision support models is acquired.	1. Environmental management: stallargy and practice 2. Activated system 3. Provas contril, clipinitation through Clearer Production 4. Environmental interaction and syndhois systems approach 5. Environmental interaction: making processes 6. Control systems: Tre shalls) 7. Environmental systems analysis (Physic - ecological systems) 8. Application of information systems in environmental systems management 8. Application of information systems in environmental systems management
Environment Protection in Energy Production	6	Ecos politics generation regularities by fuel combustion process and polition reduction methods. Ecos emission prevention principles.		1. Convention of publication by energy production 1.2. Generation of publication by combustion 1.3. Generation of publications of publications 1.4. Measurement of publications concentrations 1.4. Measurement of publications concentrations 2.4. Descharding directly and energy production 2.2. Despension of the gas in the set 2.3. Descharding of energy and engineers 3.2. Waste utilization for energy production
Environmental Biotechnology	6	To gain knowledge on biotechnological processes and their utilization for poliution prevention, to acquire application possibilities of balachnologies in clivene fields of environmental protection and scalamable resource management.	According or environmental biocheckogy and its application in austaneous heatment, and a safet heatment constrained and constr	1 stoudard: an Existence Backworking 2 stoudard: enables and Longenstation 3 Value Profilescent and Longenstation 3 Value Profilescent and Longenstation 4 Stochnology of Status Teatiment Bookence Generation 5 Bookenhology of Status Teatiment and Cencures Generation 5 Bookenhology of status Teatiment and Cencures 6 Tends is development of environmental biotechnology

		Gaining knowledge about the sources of waste generation, waste quantities and influencing factors, and the main characteristics of the waste bandling and security matheds excitoned and technology.	Knowledge of types and composition of waste, its generation, sources, physical, chemical and historical monorfiles of waste, noncrises of waste monorament lend formance and priorities for	Weste management of legal regulation and management priorities for the EU and Lithuania Weste correction, nature, collection and transcortation
Waste Management and Recycling Technology	6	and the main characteristics of the wastle handling and recycling methods, equipment and technology	biological properties of wate, proposed of wate management, legal transect and priorities for wate management, legal methods, biological and themal treatment, hazardoox wate and fa storeter, recar the use of secondary new materials.	3. Main terms of secondary are materialis processing technology 4. Terms results beaming the physics and galaxies the physics and galaxies 6. Bechanical technology are materialised to the physics of galaxies of the materialised technologies 6. Bechanics of the materialise seath recycling bechnologies 6. Bechanics and the results for construction products 8. Bechanics and technology results management 10. Biochganghan data constructions equivalent management 11. Watter effection de decine decinement management 12. Storage and management of indicactive weather
Technologies for Waste Management and Resources Recovering	6	Develop the capacity to assess the hachmal teaching and economic and environmental benefits for which management and encody of any anterlast- energy and space resources from the anthropophere in the context of the circular economy.	The methods for selection of structure of statis management systems and it is includial elements are materials, the sality includies resource sublish to product and energy book from waste and other anthropophere elements is compared, comparing them economically and environmentally with extraction of the same resources in nature.	1. Makedi fose in the embrographer, principies of linear end columba economics 2. The minin exploration, acconomic and logal aspects for odid wate immagement I 3. The minin exploration, acconomic and logal aspects for odid wate immagement 5. Tables granetino, collection and strapportation 5. Charactic ablestication and graneting and strapport 5. Anamoto processes and technologies for wate treatment and resource recovery 10. Naveobic processes and technologies for wate treatment and resource recovery 12. Nappedig pacific acconnect materials 14. Yeare bundling and undiff operation
Energy Convertion of Renewable Energy Sources	6	To give immediate about operation principles, design, and application of power converters used in reversable energy power plants.		1. General transletion 1. Semicolution for views the energy converters 1.2. AC converters 1.3. Do Converters 1.4. Rectificates and investment 1.4. Rectificates and investment 1.4. Rectificates and investment 1.4. Rectificates and investment 2.4. Developmenter and output 2.7. Tensing converters and/output 2.8. AC energy converters and/output 3.8. AC energy converters and/output
Every Conversion Technologies of Renewable Energy Sources	6	To give transfige about influence of energy conversion technologies in to process of harmonical development power preview previews of the solution profess of a exception bio energy and technological capabilities of their solution. To min the basic transfiged of the biochagies in research and internated parameters index on them the energy and a biochaging the solution of the energy of the biochaging of the biochaging of the biochaging the solutions of the energy of the biochaging of the biochag		
Resilent Uban Fulures	6	To deelegs a competencie understanding of the rolly as a complex phenomenic consisting out only on the hybrical communication and an ecological gaves and an ecological gaves and incritoria students to introduce students and amprical models as well as ways of their implication in practice.		1. titolocitor – a Framework for Realised Utable Foldees 2. Sadanshifty door Utable Encomy 2.1. Sadanshifty door Utable Encomy 2.1. Sadanshifty door Utable Encomy 2.1. Sadanshifty door Utable Encomy 3. Utable Molecular 3. Utable Molecular 3. Utable Molecular 3. Utable Molecular 3. A Molecular 3. A Molecular 3. A Molecular 4. Participatory Personal on Physics 4. Participatory Pe
Technologies of Processing and Utilization of Proteinous Products Destined for Non-lood Uses	6	Te get knowledge about integrated processing part utilization of destined for non-food uses proteinous products using biotechnological methods.	Ecologica about bachoogical of processing of designed to non-food uses protein-ton-matchina and about one and and more theory-logical processes and appendix Builden tas are the bach or you at bach technological processes. Also, transledge is gained about methods and tweetic of treatment and utilization of exploited products and weetles from non-food uses probinous materials.	1 Publicione anatésité destinaire de non foot laues Natione Composition Main poperties di probinous components. 2.1 Possessing of laura da teatrice. Conse and anno of historicologia processes Progenties and i utilization of watells. 2.3 Supplements for faiture and a teatrice. Possessi de Teatrice Incorporation A and a supplementation and a supplemen
Production of Biologically Active Materials	6	To gain knowledge about the sources of bloachie materials, methods of toproducts obtainment, isolation and purification, and their regulatory requirements.	Hinduction of the conception and principles in the modern bolechnology and subtantials development. Owing travelege adult block-the/boogmain: materials. Ther sources, production and application. Well extracted about Herbids of block-the compound solutionent. (baldon, publication and manyas. Provide principles of good manufacturing practice, walidation and production participant.	Induction, Biomasa. Resources of biomasa. 2. Biometains and Peer Intendimetation to deminist for Industry. 2. Biometains and Peer Intendimetation to deminist for Industry. The Industry of enable deficient and the Industry of
Biorefinery	6	To provide howing the durit the providers of bioding soft the possibilities of using the during by creating different processing providences that even an advance of the conscience of plant two materials into high value-added comparests, spoking modem environmentally fileedly mattholds of entraction and fractionation of bioactive compounds.	The mode presents the balacis and principle of bioinform generates, the bitter developed and excepts gains and longing bioinforming. The source generating of the model bioinforming using strates, minimumentially feeding without for the formation processes, excerting quarket, high- tites components that and used baughements the human of with hydrocic components. The benefits of the exchanced backvirk components and the arging backgirls are discussed. As a minimum, the back processes of behaviory are madeled and the balacity backgirls in production activities is developed, implementing and implementing new wastle-free production strategies.	Introduction in the Boardney Zondamethal of App-Boardney Salpes of App-Boardney Salpes of App-Boardney Salpes of App-Boardney Standamethal of Boardney School and Pathona Reline y Methods for Natural Compounds totation Softmation of Process Parameters
Chemical Kinetics and Catalysis	6	To acquire advanced Recentical involvedge and practical skills in order to understand, analyze, investigate and develop catelytic systems	Acquistion of abranced knowledge retailed to kinetic investigation of chemical reactions, theory of homogeneous, heterogeneous and to catalysis and its industed applications for synthesis of organic componds, exerging processing, built and environment behandinger, methods of characterization and design of catalysis, literation independence and adult processes. Acquisition of particular shift to solver them on other obscillates being processes. Acquisition of particular shift to solver them in order to catalysis reactions, to evaluate the efficiency of various catalysis, systems.	Mehodoby of lareic investigation of demodel exactions 2. Statistical analysis of tareic data 3. Distribution approximation of adaption transformer 4. Michaelines and functions 5. Michaelines and functions 5. Michaelines and functions 5. Diginatering of catalystic
Otemicals in Environment	6	To understand behaviour of chemicals in the environment and to acquire skills of risk assessment.	The following adjects to being student management of channel substrates, has downadou and departation of characterism in the existencement strateging man pollutation steps and detergrants, synthesis for experiments and adject adject and adject adjec	1 Management of Destinoid 2 Management of Destinoid 2 Management of Destinoid 3 Polycicles 4 Management 4 Destinoid 4 Destino

		To provide knowledge of the technological processes of every and stands conduction. The	Knowledge about the physical chemical processes of sugar and starch production, engineering and	1 Technology and equipment of primary treatment of survay head
Sugar and Starch Science and Technology	6	To provide howinding of the technological processes of usage and starth production, the possibilities of processing secondary products and to develop skills, necessary for usage and starth quality and st	Knowledge also the physical chereal phoneses of signit and starts products, etigieren's and starts phone. The solution of the solution of signit and starts phoneses of signit and solution phone. The solution of signit and starts in the solution of signit and starts intermediate products with objects. The solution of signit and starts intermediate products.	
Internet of Things and Services for Smart Environments	6	management processes of Internet of Things (i07) and Internet of Services (IoS) and be able to apply	appication areas and challenges, takkeds are able to assess the back parameters for 17 and LSS operation and management to understand the material of different toknologies to 15 and LSS operations; to takke and the analysis of the analysis of the term toknologies and the term of term of the term of	1.1. The corospin of instead of Things and itselfs of Services 2.1. The corospin of instead of Services 2.1. For a corospin of instead of Services 2.2. Software and insteads 2.3. Software and insteads 2.4. Cook platform 2.4. Cook platform 2.5. Software insteads 2.5. Software and insteads 2
Sustainable Development Economics	6	To acquire howledge about and understand the sublandable development economics pandgem, its origing and constart of development principles, methods, to be able orlically to evaluate subtainable development progress.	Exertial indexisplinary localebage of statisticable development concept is acquired, main statisticability prologies and economics, here impression methods and toos is undextood and the organizational practice skills are built in order to implement this undextanding in practice, i.e. ortically analyse global environmental and social issues and choose social responsible economics methods for string these taxes.	1. Concepts of orcular economics and sustainable development 2. Submittel development polys and SIOS 2. Submittel development polys and SIOS 2. Submittel developments substainable economics 3. Cites and national polyses that can help harmitions to a substainable economy 3. Cites and national polyses that can help harmitions to a substainable economy 7. Cites and economic development methods, sideal iniciatives
Sustainable Development	5	To form competences that enable a systematic understanding of the essence, principles and application possibilities of usatianable development, and to be able to integrate these principles into the daily activities of companies, organizations and government institutions.	The sludents are bacyfit to understand the essence of the concept of sustainable development and the man principles of paradical application, to understand is individual dimensions and their note. <i>Recording of substainable development</i> measures activated and the of the creation, validation, functing and unplanetation. The final distribution of substainable development and the substainable development measures activated and the substainable development and the record of the substainable development and the substainable development activated by the substainable development and substainable development and the record during studies and apply them in practice.	1. Infoduction (sustainable development concept and dimensions) 2. Opsimizational Content of Sustainability 2. Opsimization (Section 4. Sustainability) 3. Substainability Resett (Determined Arcs) and the World 3. Interest: Compary of Sustainability Resett(Section 1. Sustainability) 4. Interest: Compary of Sustainability Resett(Section 1. Sustainability) 5. Substainability Resett(Section 1. Sustainability) 7. Substainability Resett(Section 1. Sustainability) 8. Rever to develop a corporate sustainability strategy
Sustainable Transport Development	6	To acquire toxoletopia shout end-diro of all transport modes, pocularities of development of the transport means, proceing and systemic modes. The specific anima are space to present circumstances of their development, dependance on economical and technical progress, to assess pocularities of creation of transport system based on use of effective resources, common systematic modes.	The studen are given abilities to evaluate covert shadors and development perspective, of all transport notes. There is examined a transport horizones have on any of effective resource, terdencies of transport publices, development of multimodal transport, implementation of intelligent transport systems (ITS), analtic models and their management.	
Sustainable Architecture and Construction	6	To get investige about the man process and goals of substantials development. To obtain understanding doub childrandon between environmental, economical and social sectors. To get knowledge about the principles of sustainable architecture and construction.	The concept principles and the main goals of substantiale events (more the implement them in deep contrast and constructed work. The sludent will be able to binding inclusional and constructed not contrastantials development. In adjustment of substantials development to any pack of substantial and construction. The sludents will be able to perform substantial and provide and construction. The sludents will be able to perform substantial and provide and construction.	1. Evalution of concept of sustainable evaluation and its essence. 2. Provideor of sustainable evaluation systems. 3. Progreech of sustainable devaluations of system. 3. Progreech of sustainable devaluations and the tendences. 4. Evaluation of the sustainable devaluation of the subscription of the subscr
Sustainable Energy	ŝ	To teach through understanding of tendencies of sustainable energy and appends of the development, to mater its implementation for solving of problems related with energy planing and operation.	To acquire includege of implementation of subanable energy provides, to make methods and means of the use in product activities. To acquire sublishes perform environmental probability of thermal and poser energy generation systems through social, technical, economical and environmental points of use.	1. Conceptor of energy statistically 1. Conceptor of example statistically 1. Conceptor of subanhality in energy existence 1. Conceptor of subanhality in energy existence 1. Conceptor of subanhality in energy existence 2. Denotes energy and executive transmission of executive
Sustainable Urbanism	6	To provide the knowledge, which will help to use the principals of sustainable urbanism in tentional planning and urban design for students	The module Statisticable unbarries in additional to other basic modules of architecture and unbarries. There will be presented the bases corrected with the creating of spatial structure of additionation in this events of the structure of additional to other structure additional and the structure of the structure of a structure of a structure of the structure	The objectives and conceptions of sustainable urbanism The objective structures of sustainable urbanism The objective structures of sustainable urbanism The objective structures of sustainable urbanism Source (Structures and Structures and Structures) Source (Structures and Enclosed) (Property and Structures) Source (Structures and Enclosed) (Property and Structures) Source (Structures) Source (Str
Development and Management of Sustainability Projects	6	Development of the behaviouri shifts, enclosed intelligence, and/or dance and psych development. The behaviouri shifts, and and the submittely psych provides and outcomes. The core will provide the the transverse and inputs the substrated and intelligent approach. The introduction of innovation, the develop of dange and the strategic management of organisations through portfolios and programs.	In this module the concepts of catastity, sripical development or charactement will be introduced in the context of forwards organizations. Lansinger and catasticals. The state shares will gate hostedays of concepts and gate hostedays of the states will be able to the state of the concept of the states and the state of the states and	
Sustainability Management and Law	6	To obtain principles of substantiability management, environmental legal system of European Union, management and control of environment potection.	Statisticatily management principles are determined. The dubret will be able to backet and poly poleche label methods in environment protection. Application of 11 de operation sessment method to determined. The students get practical valids of environmental impact assessment is able to and ensitient. European to hom legal system of the main environmental components. The students will be able to apply EU lave.	
Sustainable Chemicals Management	6	To know how is develop products and processes and to perform activities in a way that demical substances do vid case susceptible risks brunn half han die devisionem. Er for at, to provide knowledge alkout hausstat of demicals used in various economic activities, stout risks and demicals nanagement at companies, to adopt engineering and technological solutions allowing to reduce risks.	Statistikat devincial management prevente exposure to hazardou substacce, limit na dri supply chains and mpidation de company. Nonelegie adoit mara net mano de intenica contrib, doub relevant legi tamenarius, adout responsibility of authorities and robustly in surguiet. Subsette taam Substates talke substates and and substates and substates and substates and substates talke substates tasked in substates and substates and substates and consumes) and the environment, and to provide manageniet explorering bechnological substates for nak reduction. They will be able to develop chemical management systems al enlerprices.	In Procipe and Instruments for detentional according Thereading addinate data and an addinate and addinate and addinate and addinate and addinate and addinate and addinate ad
Sustainable Management of Natural Resources	6	To produce protectional booklega on induct resources, to equip with inductability of integral and of produced to the second sec	The occurs provide provide provide to and the set of th	1 Instruction: Natural encourses and scool-industrial metabolism 2.1 Indication industrial encourses and regions 2.2. Indication industrial encourses and regions 2.3. Ecological Rodpent 3.3. Ecological Rodpent 4. Bindergies and reliand the assubinable resource use

		To take knowledge about the principles and means in the field of responsible consumption and sustainable industry development. To learn how to analyze factors affecting consumption and industry activity. To know how to use engineering, economic and social measures to promote responsible	Students gain knowledge about the key elements and links of sustainable industrial development and responsible consumption, about the role of consumers and industry in achieving sustainable development gais. The perspective of Lithuranian industry in the context of sustainable development	 Sustainable development strategy: sustainable development problems in industrial society Sustainable development goals: from strategy to real implementation of objectives and indicators Industrial ecology — the strategy of sustainable industrial development, main dements di industrial ecology
		consumption and production.	is analyzed. Competences are provided to assess the environmental and social consequences of personal consumption. Students gain ability to systematize the engineering, environmental, economic and legal knowledge acquired during the academic year and apply it in practice when assessing the	4. Critical new materials in EU and Lifeuania and the methodology of evaluation of their impact to competitive ability S. SD indicators and their practical use for the evaluation of development perspective of different sectors of economy 6. Main tools of subatinable industrial development.
			sustainable development opportunities of individual industries and assessing measures for sustainable lifestyles.	 Sustainable innovations in Lithuanian Industry: development and implementation Sustainable consumption: consumer behavior and the environment
Sustainable Consumption and Production	6			 Relation of sustainable consumption with the production and resources efficiency Sustainable consumption and production indicators: calculation, evaluation and monitoring
				 Principles, objectives and implementation of Circular economy Environmental impact assessment of households and reduction of environmental impact Social business and regenerative economy
				13. Social business and regenerate economy 14. Structure and organisation of scientific work: selection and description of methodology
		Know the peculiarities of fuels kinds in the combustion technology. Can to choose appropriate combustion technology and equipment. Know advanced fuel using technologies.	Know kinds and characteristic of fuels. Know the processes are going during fuel combustion. Know fuel combustion technologies and technical means to implement these technologies. Can calculate	Introduction Theoretical basis of fuel combustion
			elements of burners. Know methods of measurement of combustion products. Know the burners control methods. Learn the optimization methods of fuel combustion process. Know advanced fuel	2.1. Fuel types, comparison 2.2. Combustion reactions
			using technologies.	2.3. (prilion conditions, flame propagation speed 2.4. Types of gas fuel combustion 2.5. (Infuence of the CPI ratio
				2.6. Flame tracking techniques 2.7. Pollutants ceneration during fuel combustion
				2.8. Principles of flame stabilization 2.9. Ways of twisting the air flow
				3. Optimization of fuel combustion 3.1. Themma balance of boiler 3.2. J. Heal toases and heir determination
				3.3. Determination of the optimal excess air 3.4. Fuel savings due to precise regulation of air quantity
				3.5. Principles of burners power regulation 3.6. Ways to increase boiler efficiency 4. Gas fuel
				4.1. Main types of cas fuel
				4.2. Types of gas burners 4.3. Management of gas burners capacity 4.4. Burners selection
				4.5. Cacluation of gas burners 4.6. Specifics of biogas burners 4.7. Casi lines and appliances for gas burners
				4.7. Casa lines and appliances for gas durines 4.8. Automatic testing devices for gas valves 4.9. Automatic start sequence of gas burners
Optimization of Combustion Process	6			5. Liquid fuel 5.1. Liquid fuel composition, characteristics and combustion
				S2. Fuel atomization methods S3. Examples of burners capacity S4. Regulation of burners capacity
				5.5. Starting sequence of liquid fuel burners 5.6. Liquid fuel components
				5.7. Liquid fuel supply systems 6. Solid biofuel
				6.1 C Theresteristics and combustion 6.2. Fuel preparation 6.3. Combustion technologies
				6.4. Storage and transportation 6.5. Reducing the impact of biofuel boilers on the environment
				6.6. Technological sspects of bolaul ash 6.7. Themochemical technologies for energy production from biomass 6.8. Percularities to huming straw, peat, coal
				o.c. recularines or burning straw, pear, coal 7. Solid fuels 8. Domestic heating boilers
				-
		To obtain the PAD adhese task or frequency and a sector state.	Obtained the main facts used in the success of stress of the success of the succe	5. An interduction to bin data management bata
		To obtaine the SAS software tools environments, acquire skills to use them for management, storage and analysis of big data sets.	Obtained the major tools used in the management, storage and analysis of big data sets. Acquired the big data sets integration and management of multi-platform environment, analytical, data analysis tasks of programming languages (SAS) knowledge, capacity building program realistic activity data	 An introduction to big data management tools The need to analyse new more complex data sources using popular big data analytic applications Data warehousing and Bi versus big data, popular patterns for big data technologies
			extraction, transformation and loading (ETL), and analysis tasks. Obtained paralel computing techniques and develop skills to work with DS2 (SAS) SQL-type access to unstructured data, the	 Big data analytics Types of big data analytical workloads, streaming data analytics at high velocity
			public cloud as a limitiess resource intended for the analysis of large data sets. Develop skills to analyze data systems that can analyze large amounts of data.	2.2. Exploratory, complex, graph analysis of multi-structured data 2.3. Challenges when managing and analysing big data, key components in a big data analytics environment 3.8 ig data platforms and storage optione
				3.1. The new multi-platform analytical ecosystem 3.2. NoSQL DBMSs, analytical RDBMSs
				 Analytical databases and DW appliances, analytical tools – SAS Data cloud and creating a multi-platform analytical ecceystem
				4. Big data integration and governance in a multi-faithform analytical environment 4.1. Types of big data, connecting to big data sources and supplying consistent data to multiple analytical platforms 4.2. Losding Big Data – what's different about loading IPDFS, Hive & NoSQL Vs analytical relational databases
				4.3. Change data capture and data warehouse offload 4.4. Tools for ELT processing, dealing with data quality in a big data environment 4.5. Parsing unstructured data
				4.2. Fransing unstructure cases 4.6. Joined up only/clical processing from ETL to analytical workflows and the impact of data scientist and end use 4.7. Mapping discovered data of value into your DW and business vocabulary, big data audit, protection and security
Big Data Analytic Tools	6			 Tools and techniques for analysing big data Data ccience projects, creating sandboxes for data science projects
				5.2 Options for analysing unstructured content, using SAS as an analytical language for big data 5.3. Text, clickstream, exploratory graph analysis and visualisation (A). Using search to snarkye multi-structured data, creating search indexes, the integration of search with traditional BI
				5,5. Building dashboards and reports 5.6. Analysing big data using self-service BI tools
				5.7. Big data analytics – query performance enablers 5.8. Managing stream computing in a big data environment, tools and techniques for streaming analytics. 6. Interaction bit data analytics in the enforcement
				6.1. Integrating big data platforms with traditional DWIBI environments 6.2. Tying together front end tools, options for implementing multi-platform analytics
				6.3. Cross-platform analytical workflows 6.4. The role of data virtualisation in a big data environment, multi-platform optimisation
1		To gain knowledge on safe traffic system organisation, management and modeling principles. To develop abilities to assess, model and forecast transport traffic flows by using the most recent	Skudenta develop the abilities to understand, assess main principies of traffic organisation and control. Generic aubits na majoring, modelling and assessing transport network system, traffic flows by	1. Sudainabe mobility in transport system 1.1. Palic hensyori system organisation and control
		develop abilities to assess, model and forecast transport traffic flows by using the most recent transport traffic flow methods and IT capabilities, analyse environmental impact of whiches and enronomic assessment. To be carable of developing the study on assessment and control for transport	Generic skills in analysing, modelling and assessing transport network system, traffic flows by applying modern IT solutions and application packages are developed. Methodology in selection of effective research methods and desing of transport traffic flow solution tasks is mastered. Abilities in	1. Sustainable mobility in transport system 11. Public transport system organization and stratical 12. Salde transport system directional models in the system of the sy
		develop abilities to assess, model and forecast transport traffic flows by using the most recent transport traffic flow methods and IT capabilities, analyse environmental impact of vehicles and	Generic skills in analysing, modelling and assessing transport network system, traffic flows by applying modern IT solutions and application packages are developed. Methodology in selection of	Substantial mobility in the adapt is taken To FAlack Issued by the adapt and the other To FAlack Issued by the adapt and the other To FAlack Issued and compared and the other To Adapt and the other development process Anomenical results for the research or and the opposition Anomenical results for the research or and the opposition
		develop abilities to assess, model and forecast transport traffic flows by using the most recent transport traffic flow methods and IT capabilities, analyse environmental impact of whiches and enronomic assessment. To be carable of developing the study on assessment and control for transport	Ceneric skills in antykning, modelling and sasessing transport network system, traffic flows by applying modern IT solutions and application packages are developed. Methodology in selection of effective research methods and design of transport traffic flow solution tasks is mastered. Abilities in assessment of environmental dranages caused by vehicles are gained. Abilities in application of statistical methods, new stategies, development of plans to part of transport herebork are distributed.	Educationable mobility in bisercopied system To Parkie Instance operational and control To Parkie Instance operational and control To Safe Instance operation measures and control To Safe Instance operation measures and control To Safe Instance operation measures and control Safe Instance
Transport Traffic Organisation, Control and Modelling	6	develop abilities to assess, model and forecast transport traffic flows by using the most recent transport traffic flow methods and IT capabilities, analyse environmental impact of whiches and enronomic assessment. To be carable of developing the study on assessment and control for transport	Ceneric skills in antykning, modelling and sasessing transport network system, traffic flows by applying modern IT solutions and application packages are developed. Methodology in selection of effective research methods and design of transport traffic flow solution tasks is mastered. Abilities in assessment of environmental dranages caused by vehicles are gained. Abilities in application of statistical methods, new stategies, development of plans to part of transport herebork are distributed.	Sudanable mobility in theraport system Sudanable mobility in theraport system and control Values and control Sudanable organical sets and control Sudanable organical sets and control Sudanable organical Sudanable of the sets and and and exploration Sudanable
Transport Traffic Organisation, Control and Modeling	6	develop abilities to assess, model and forecast transport traffic flows by using the most recent transport traffic flow methods and IT capabilities, analyse environmental impact of whiches and enronomic assessment. To be carable of developing the study on assessment and control for transport	Ceneric skills in antykning, modelling and sasessing transport network system, traffic flows by applying modern IT solutions and application packages are developed. Methodology in selection of effective research methods and design of transport traffic flow solution tasks is mastered. Abilities in assessment of environmental dranages caused by vehicles are gained. Abilities in application of statistical methods, new stategies, development of plans to part of transport herebork are distributed.	Subanaptio anabolity in Associated system To Subanaption anabolity of Associated Systems To Allock Instrument Systems agestination measures and control To Allock Instrument Characterization processes Subanaption and Systems Anabolity of the Strangost Intelling Characterization To Allock Instrument Characterization processes Subanaption and Strange Anabolity of the Strangost Intelling Characterization Subanaption and Instrument Characterization Subanaption and Instrument Anabolity of the Strangost Subanaption and Instrument Anabolity Subanaphoreant Anabolity Subanaption and Instrument Anabolity Su
Transport Traffic Organisation, Control and Modelling	6	develop abilities to assess, model and forecast transport traffic flows by using the most recent transport traffic flow methods and IT capabilities, analyse environmental impact of whiches and enronomic assessment. To be carable of developing the study on assessment and control for transport	Ceneric skills in antykning, modelling and sasessing transport network system, traffic flows by applying modern IT solutions and application packages are developed. Methodology in selection of effective research methods and design of transport traffic flow solution tasks is mastered. Abilities in assessment of environmental dranages caused by vehicles are gained. Abilities in application of statistical methods, new stategies, development of plans to part of transport herebork are distributed.	Sudanable mobility in theraport system Sudanable mobility in theraport system and central Velice and central expensions and central Velice and central expensions and central Sudanable and theraper system and central Sudanable and theraper system and central Sudanable
Transport Traffic Organisation, Control and Modelling	6	develop abilities to assess, model and forecast transport traffic flows by using the most recent transport traffic flow methods and IT capabilities, analyse environmental impact of whiches and enronomic assessment. To be carable of developing the study on assessment and control for transport	Ceneric skills in antykning, modelling and sasessing transport network system, traffic flows by applying modern IT solutions and application packages are developed. Methodology in selection of effective research methods and design of transport traffic flow solution tasks is mastered. Abilities in assessment of environmental dranages caused by vehicles are gained. Abilities in application of statistical methods, new stategies, development of plans to part of transport herebork are distributed.	Sustainable mobility in transport system 1. Sudainable mobility in transport system and control 1. Public Interprocession measures and control 2. Assochess 3. Transport and 3. Assochess 3. Assochess 3. Assochess 3. Assochess 4. Assoches 4. Assochess 4. Assochess 4. Assoches 4. Assochess 4. Assoches
Transport Traffic Organisation, Control and Modelling	6	devides patitive to assess, node and of breviat transport teRf. The host by using the indust internet transport teRf. The more thanks and it republics and eventories and a devices and accountic assessment. To be capable of developing the subdy on assessment and control of transpo- national capability by simulation modeling.	Centre: della in ambyling, modelling and assessing hanoport dellarok system, Talfic Rono by applying moden T Storking and application pages as developed. Methodology in selection of effective research methods and dellarging of transport traffic Row auditor tasks in mastered. Abilities in assessment of nehronization applications pages and avoided the selection of the biological methods, new strategies, development of plans for a part of transport releask are developed.	Sutainable mobility in theraport system 11. Pack in regional and accord 11. Pack in regio
Transport Traffic Organisation, Control and Modeling	6	devides patiskes is assess, model and of breviast transport traffic from the yarring the most transformation of transport traffic from the patient of transport traffic from the patient of vertices and economic assessment. To be capable of developing the study on assessment and control of transport transmit expanding by simulation modelling.	Centre: Selain nampsing, modeling and assessing transport relearch system. Table (how by applying moder). Tables of an application scalar as a developed Methodogy in selection of affective essent in rehorizon and application scalars are developed. Methodogy in selection of advective search methods and essential of an application of processing of an application of the selection of the selection of the selection of the selection of advective search methods and essential of processing of advection of the selection of the selection of the selection of the selection of advection of the selection of the selection of the selection of advection of the selection of the selection of the selection of Soldents are acquarited with the behaviological entrepreneurship concept, its complexity, minuted of the selection of the selecti	Sutainable mobility in transport system 13 Padia regional and catedri 14 Padia regional and catedri 15 Patients and features characterizing the transport taffic 13 Padia regional and catedri 14 Padia regional and catedri 15 Patients and features characterizing the transport taffic 13 Padia regional and catedria regional and catedria 13 Padia regional and catedria 13 Padia regional and catedria 13 Padia regional and catedria 14 Padia regional and catedria 14 Padia regional and catedria 15 Padia regional and regional and regional and regional and catedria 15 Padia regional and catedria 15 Padia regional and regionand and regional and re
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Transport Traffic Organisation, Control and Modelling	6	devides patients to assess, model and to deviait transport traffic from thy using the most information that the most that the most traffic from the summary traffic from the summary traffic from the summary transmitter and the	Centre table in initiation, modeling and assessing transport relation k yeaks. Table (how by spylpy moder 17 Stocks and application parages are developed. Hethodary is selected and defective assessment methods and design of transport table. The valuation tables in statistical methods, new strategies, development of plans for a part of transport network are developed.	
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Control and Modelling	6	devide patient is to asses, node and or be-sist transport tells from end of the inter- temport tells from them and IT capabilities analyse environment languat of variables and economic assessment. To be capable of developing the study on assessment and control of transpor- taneous capacity by simulation modeling. To provide students necessary knowledge and skills required for entrepreneurial process from the generation of creative clease to technological and economical feesbilly analyses by adapting the challing based learning approach.	Center stalls in instrajing, modeling and sasessing transport relation k yeles. Table Too by a spolying model. Tables and application pages are developed. Methodology in selection of advances acression herbitotis and developed of transport fastic free autoions tasks in mastered. Advances and the selection of the selection of the selection of the selection tasks in mastered. Advances and the selection of the	Subtanishe mobility is temport system 1. Pack Import system organisation and order 1. Pack Import system organisation 1. Tangot orders that from meanch of the system of table 1. Pack Import system 1. Tangot orders that Import table 1. Tangot orders that Import 1. Table 1. Tangot orders that Import 1. Tangot orders that Import 1. Table 1. Table 1. Tangot orders that Import 1. Table 1. Table 1. Table 1. Definition 1. Tangot orders 1. Table 1. Definition 1. Definitable 1. Definition 1. Definition 1. Definition 1
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Control and Modelling	6	devide patient is to asses, node and or be-sist transport tells from end of the inter- temport tells from them and IT capabilities analyse environment languat of variables and economic assessment. To be capable of developing the study on assessment and control of transpor- taneous capacity by simulation modeling. To provide students necessary knowledge and skills required for entrepreneurial process from the generation of creative clease to technological and economical feesbilly analyses by adapting the challing based learning approach.	Center: sets is initially in ordering and assessing transport relation k years. Table to be yearsympty moder 11 Stores and application participanes are divergible characterization and application participanes are divergible and application and application participanes are divergible and application and application participanes are alterized and the background of plans for a part of transport network are divergible. The source and application are application and application are alterized and the background of plans for a part of transport network are divergible and application and application are applicated and the background and application and application and application and application and application are applied and the background and application applicat	
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Control and Modelling	6	devide patient is assess, node and or be-sist transport tells from end of the inter- tion of the first of the second of the second of the second of the second of the second account assessment. To be capable of developing the soldy on assessment and control of transpo- related capable by sinulation modeling.	Center sets in amplying, modeling and sasesaring transport relationk system, "Belfs Rook by spriving moder TI Solaris and any size of stransport famile. The valuation six is an asterned. Addition is a six in masterned different and search methods and design of transport famile. The valuation six is an asterned. Addition is a six in masterned different and search methods and design of transport famile. The valuation six is an asterned different transport methods are assessment of transport famile. The valuation six is an asterned different transport methods are different transport methods are assessment of transport methods. The comparison of the six is an asterned different and transport methods are different transport methods are different transport methods. The backwaldsport different and transport methods are different transport methods. The isothered and methods are gained. Addition the second different different differe	
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Electrochemical Energy Storage Devices	6	To acquire the basic knowledge of construction, operating principles, design features, the materials and technologies of manufacturing of the various electrochemical energy storage devices.	Krowledge about diversity and construction characteristics, production and technology of different types of electrochemical energy target envices in acquired. Altifity to understand operating principles and electrochemical process sking facia in the electrency gas of electrochemical energy storage devices is garled. Knowledge how to calculate parameters of electrochemical energy storage devices in obtained.	1. Excludemical power sources 2. Types of decisorbamical design should design devices 3. Types of decisorbamical design should device a 4. Revealed processes in electrodemical energy stronge devices 5. Malerias das devicelopes lar productional energy stronge devices 5. Malerias das devicelopes lar productional design stronge devices 7. Provintifies of the electrodemical energy stronge devices 7. Provintifies of the electrodemical energy stronge devices 7. Revealed de devices de devices manual production 7. Revealed de energy stronge devices and environmental protoction
Namical Mehodi in Electornagetic Feld Texory	s	To form abilities to apply numerical field calculation methods for electrostatic, direct ourset electric and magnetostatic fields calculation, to create problem solving program implemented in chosen programming language and be velocite accountry of the calculations.	Allify is solve two-dimensional problems of stationary electromagnetic fields by use the numerical fails defined, fails element as interaction and the solution of the numerical methods of considered and the solution of the definition of the solution of the solution of the solution of the definition of the solution	
Electromagnetic Field	6	To from political to uncertaintid and apply the method of deparation of available and the method of methods and applying of the demonstrational and and the method of decomposition of the demonstration of the demonstrat	method is provided. Knowledge of the mathematical theory of compare variables functions is instructured. The still of the advange single processing proved mathematical system. Altity to use Schwardz's hingpal is provided. Altity to use spallal Green's functions is trained, kinolucitor to instructure methods of electromagnetic field theory is mode.	Notice Selection of unicodes Selection Selection of unicodes Selection
Power System Planning	6	To provide students with knowledge of the structure of electricity systems, energy demand lowcasting methodologies and power system planning offeria, and electricity regulation and pricing.	The shockine of electricity systems. Energy sector regulation. Prioring, Transcasting of energy demand Energy balance. Process of electricity systems planning. Generation and networks planning. LiRunarian electric power system development and perspective, strategy.	
Energy Economics	6	This module is balanch economic phroighe relating to the energy sector with emphasis on the economic chaltenges facing the global energy system.	Assimilaring the knowledge and skills that allow you to assess the energy structure of the makets, energy production and consemption patterns, unalga energy days. Anothed ge and skills are analysis and investment analysis of energy efficiency.	Energy Carmand Analysis and Forecasting Second Se
Energy Economics	3	To realise the ourse of energy eccores, is understand the issues of energy escurity and efficiency, to obtain the skills of evaluation of investments and to understand influence of nuclear energy.	The contract of modular embrases a subles of energy economics foundations and its integration in Elumanian energy protections. The own, structure, embodiogical begoint and instruments of energy economics as sciences will be obtained. Main energy proteins are integreted on the energy economics as the proteining energy economics as applied as early of energy encoded and an energy economics will be obtained.	1. Fundamentalise of energy economics 1. Fundamentalise of energy economics 1.3. Methodological basics and contegoring denergy accounties a stratege 1.3. Methodological basics and contegoring the energy and economics 2.2. Evaluation of the strate baselines energy and economics 2.2. Evaluation of the strate baselines in the strategies of the strategies and the strategies
Energy Production and Supply	6	To provide traveledge about the basic and advanced technologies of energy generation, accumulator, interinstance and efficient consumption and to develop adia mecessary to determine and evaluate the possible of the user directed energy source in the regimening spatiane and the development prospects.		1. Elempido 1. Elempido 1. Elempido 1. Elempido 1. Elempido 2. El
Space Syntax	ũ	The aim of the module is an accountedgement of the students with the concept of urban / architectural gendype and Spece Syntax theory as a lood for its modeling.	analysis bots for various architectural/urban contents will be developed during the problem oriented table.	

Digital Modeling of Spatial Environment	6	To acquire theoretical toxidege and develop practical skills, which allow using of modern compare methods and toxid of exploritioning forming of poposity, instructure, built environment, and undrage solutions; and to create prerequisities for the application of the Building Information Modeling (BM) methodology.	Acquise transfers of computer-stoke spatial cetage spatements are set or spatial motels, taking into account Builting information Modeling (BM) readings. To expan set bit in separation of spacialised 3D design software for information (BM) readings and the spatial set of space states and the second space of the software software software software software software software software software software software software software software software software software software software and the software softwa	1. Relevance of the discipline, spatial systems of the sill environment, basic terms and concepts. 2. Basics of generating-topical status of the interpret of the sill environment. Naminate actignal basines. 3. The structure of a Digital Terms Noted (PTIM) as a basis for a topographic environment. Nami modeling acceptate 3. The structure of a Digital Terms Noted (PTIM) are a basis for a topographic environment. Nami modeling acceptate 4. Boyost, and the structure of the structu
European Union Internal Policies in Global Context	6	To provide the understanding of the contemporary challenges and insues of socialit diversionment and European Union's response to these challenges through existing internal policies and regulations.	Solver has comparison to include participation of the second seco	
Fermentation Science and Technology	6	To provide invalidge of involve, sustainable industrial technologies for makink of beer and other benergies, by product rencycing, water here technologies, and the ability to poly product quality and and not the provide technologies and the ability to poly product quality and products, ensuing product competitionerses, tumorer and clientity.	The latest innovative, sustainable, waite-free and rare fermentation technologies are mastered. New production methods, the processing of the by products, granted positional parameters and physici- tal sectors and the sector of the sector	1. Advances in science, lechnology and new pockut development in the fermentation industry 2. Authentically, propagational crips, using the staffy improvement of thementation industry products the science of the science of the 4. Advanced statistics use science of the science of the 4. Advanced statistics use science of the scien
Manufacturing Strategy	6	Is previde toreakidge about manufactung strategy, development of production facilities and processes, planning, planning of production volumes, determination of market needs, forecasting quality planning and management of companies, and to develop abilities to adve problems related to these areas.	Ta grounding is understand the main principles of a manufacturing strategy is structure, and development process. It is given the development development for the structure strategies of manufacturing extendencial structure procession (and the structure) procession (and is grounding the methodology of products and processes quality strategy and main spectra of the statistical process control. It is given benchmarking methods and estimation of manufacturing systems.	The participles and formulation of manufacturing shallogs 1.1. The types, efflexences and decision principles of manufacturing shallogs 1.2. The expendit, ensuring and company's sharlow of the company 2. The development of a manufacturing company's sharlow regulatorized production 2. The development of a manufacturing company's sharlow regulatorized production 2. The development of a manufacturing company's sharlow regulatorized production 2. The development of a manufacturing company's sharlow regulatorized production 2. The development of a manufacturing company's sharlow regulatorized production 2. The assessment and genering of manufacturing produces and experiment 3. The manufacturing company's sharlow regulatorized product pr
Extraction of Bioactive Natural Materials	6	To acquire howhering on properties, sources, conventional set of movulue isolation, profication, estabilisation and characterisation networks and explorationage of natural loadies constructs, leading to the effective, rational and sustainable processing of natural raw meterials into high added-value components.	Sudert acquires toostedge on progretien and sources of shall blockship constituents, as well conventional and innovember backling and characterization methods and technologies thereof. Students is familiar with multitage biorefining applying human and with overhearthy filtering activation and studiosistic biorefunges for studiosistic constituent tabation, also with modeling and optimization of blockshore constituent toolshore provides constituent tabation, also application of testimation and studiosistic or studiosistic processes. Regulatory see discussed as well.	
Cereal and Confectionery Science and Technology	6	To pencide insertialize at this series loads cit and confectionery posturiors technologies, and to develop autisative factorial processes of more reproductions with improved quality, multition value, and safety, ensuing their competitiveness in the market.	Aquind execution transleting shado areast products as of conflictionary modulor behaviogate. Built special wills in order lower provide the higher gavaly wild indicat wake, and implement the product quality management system. Leaned avalycal and technological methods for targets studies of order lower products. It and the system of the system of the system Adv to show multiple non-standard and unspecific problems of subsimilar products technological in the relief to show multiple monitorial scale statistication behaviority of the system product development and implementation in the market	1. Covaria developming tablegarding satismentativitis, there properties and supplications 2. Solidary sequest of covarian methelia and inclusionary close for the first control of the solidary of the properties of the solidary of the production of solidary of the prod
Hydraulic Systems and Hydroenergetics	6	To provide inclueldge about the purpose and operating principles of hybridule: system, hydropower exponent and hydropotic powor parks, not an innehods of the data, To develop competence to collect and approvale necessary bats and compute the amount of energy to be principly generated.		1. hydraulica. 1. hy
	6	equipment and hydroelectric power plants, and the main methods of their design. To develop competence to collect and appreciate necessary data and compute the amount of energy to be	saladio of regimening problems for doesd conful and open flow is acquired. Konskepp of hybriduic system and the protocial anging an aquired. The Mathematiski of hydro- energietics are assimiliated. Konskepp of modern hydropower technologies and saladions is acquired.	11. hjeduciac. Presure, the main force of liquid presure acting a nutree. 12. hjeducinaciin. The controlli, divergeme acting the control aguitors. 13. Application. Consol controlli, divergeme acting the control aguitors. 13. Application. Consol controlli, divergeme acting the control aguitors. 13. Application. Consol controlli, divergeme acting the control aguitors. 13. Application. Consol controlli, divergeme acting the control aguitors. 13. Application. Consol controlli, divergeme acting the control aguitors. 13. Application. Consol controlli, divergeme acting the control aguitors. 13. Application. Consol control aguitors. 13. Application. Consol control aguitors. 13. Application. 13. Application. Consol control aguitors. 13. Application. Consol control aguitors. 13. Application. 13. Application. Consol control aguitors. 13. Application. 13. Application. 14. Control aguitors. 15. Application. 14. Control aguitors. 15. Application. 15. Applic
Hydroenegetics		explorer and hydrolectic power planet, and the main methods of their degis, To develop completer to clicitat and approach necessary data and compute the amount of energy to be patentially generated.	saladio of regimening problems for olosed contall and open flow is acquired. Kowelege of hypotalic system and the protocid anges in acquired. The functionation of high energies are assimiliated. Knowledge of modern hydropower technologies and validation is acquired. Essential troubledge in the area of business process analysis and modeling using BPMN modeling languages acquired and practical salars as ball in order to apply the acquired in loweless or the process management system. Pacies the Surieses process analysis and modeling using BPMN modeling using the surger state of the area of business process analysis and modeling using BPMN modeling spaces management system. Pacies acquired and Subiness Architect competence is Audu which process management system. Pacies acquired and Subiness Architect competence is Audu which process management system. Pacies acquired and Subiness Architect competence is Audu which process management system. Pacies acquired and Subiness Architect competence is Audu which process management system Pacies acquired and Subiness Architect competence is Audu which process management system Pacies acquired and Subiness Architect competence is Audu which and the acquired and pacies acquired and spaces acquired and pacies pacies acquired and pacies acquired and acquired and Subiness Architect competence is Audu which acquired acquired and pacies acquired and pacies acquired and pacies pacies acquired and	11. Hydotakia: Pressa, the main for of liquid pressue acting autore. 12. Hydotakia: Protocoling, Marengine Antonia Aguadion 13. Hydotakia: Protocoling, Marengine Anton Aguadion 13. Hydotakia: Protocoling, Marengine Aguadion 14. Protocoling, Proper and Protocoling, Marengine Aguadion 14. Hydotakia: Protocoling, Marengine Aguadion 14. Hydotakia: Protocoling, Marengine Aguadion 14. Hydotakia: Protocoling, Marengine Aguadion 14. Dentes Hydotakia: Protocoling, Marengine Aguadion 14. Dentes Hydotakia: Protocoling, Marengine Aguadion 15. Hydotakia: Protocoling, Marengine Aguadion 14. Dentes Hydotakia: Protocoling, Marengine Aguadion 15. Hydotakia: Protocoling, Marengine Aguadion 15. Hydotakia: Protocoling, Marengine Aguadion 16. Dentocoling, Marengine Aguadia: Protocoling, Marengine 16. Dentocoling, Marengine Aguadia: Protocoling, Marengine 17. Hydotakia: Protocoling, Marengine Aguadia: Protocoling, Marengine 18. Dentocoling, Marengine Aguadia: Protocoling, Marengine 19. Hydotakia: Protocoling, Marengine Aguadia: Protocoling, Marengine 19. Hydotakia: Protocoling, Marengine Aguadia: Protocoling, Marengine 19. Hydotakia: Protocoling, Marengine, Ma
Hydroxeregetos	6	explorer and hydrolectic power plant, and the main methods of their deap. To develop completer to clicitic and operative necessary data and complet the amount of energy to be patertially generated.	saladio of regineering problems for olocad contail and open lows a sacy and. Non-keep of hypotalic sphere and investment of the same of the sacy and the sacy and the sacy and strengthics are assimilater. How while of modern hydropower technologies and saladions is acquired integratics are assimilater. How while of modern hydropower technologies and saladions is acquired and and the same of the same of business process analysis and modeling using BPNN modeling tanggates acquired and practical status are built in order to apply the acquired blooked for the saccount of the same of business process analysis and modeling using BPNN modeling tanggates acquired and practical status are built in order to apply the acquired blooked for the saccount of the same of business process analysis and modeling using BPNN modeling tanggates acquired and practical status are built or order to apply the acquired blooked for the saccount of the same of business process analysis and modeling using BPNN modeling tanggates acquired and practical status are built control to apply the acquired blooked process memogenetic the Pay's acquire the Business Archite control to able to access the saccount of the business and the control to apply at them. Architect control of the business active to access the Pays access and apply the completion, status process and the theory operative hybrid saccess the pays and apply makes produced through changes in the theory operative pays active the produce shades and apply the completion, status process and theory access and applied to modeling and apply the completion, status process and theory access and applied to the pays and apply the completion status process and theory access and applied to access and applied to the saccess and theory access and applied to the saccess and theory access and applied to access and applied to the access and applied to the saccess and theory access and applied to the saccess and theory access and applied to the saccess and theory access and applied to the access and appl	11. hjedualica. Pressue, the main fore of liquid pressue acting: a unter. 12. hjedualica. Pressue, the main fore of liquid pressue acting: a unter. 13. hjedualica. Consoling, the regime a thoma if you that the set of status. 13. hjedualica. Consoling, the regime and the set of status. 13. hjedualica. Pressue, hydrail activity. 14. John of the set of the set of status and
Hydroxeigetos Busitess Process Analysis and Digitalization Innovations in Fashon Design Innovations in Fashon Design Innovations in Building Products	6	explore na hydrolectic poor plant, and he min methods of their day. To develop completer to colder and approache necessary data and complet the amount of energy to be point and y methods. The second of the second of the second of energy to be the second of energy to be a second of the second of the second of energy to be point and y methods. The second of the second of the second of energy to be an adjustment of the second of the second of the second of the second of the second develop corresponding skills required to sploy that knowledge in practice using business process management decay terms.	skalco forgenering problems for obsect ontikal and open how is acquired. Nonkeleg of hybridic sphere and investe and her protocial orgen an acquired. The househed of the forgetics are assimilate. Howekelige of modern hydropower technologies and subtrom technologies and t	

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Innovative Production Technologies	6	To provide nonveleting about the concept of Innovative production backwolgnet, development, and applementation and development propertieval and day contact of the Charlest Economy and the Green Course and to develop the skills recossary for the tasks of industrial transformation.	The statem are target to understand the modern manufacturing methods and technologies, and apply them in high has therefores. They are always to understand the next tardencies in the development of CM and artifold intelligence and be able to apply the nexest achievements in science and technology in the practical achieves.	1. Involve Mechanologies in the manufacturing industry 2. Rechangles in modern environment 3. Rechangles in modern environment 3. Rechangles in modern environment 4. Rechangles in modern environment 4. Rechangles in the file right of the product 4. Could encoursely and challenge for task backless regulation and environmental protection 7. Cool products in Linker industry 4. Rechangles in the file right of the right o
Innovative Food Processing and Packaging Methods	6	To protek nowledge of food production areas where ere processing and/or goldwain; methods can be applied, understand the processing and/organ of processing production of processing production of processing productions of advected particular processing and/organic processing	and their influence on the product changes during storage.	1. Selfistance I doos under high rybordisch gresses 2. Exclusionary and green self oder products gresses 2. Exclusionary and green self oder products and wher changes in electrostatic field 3. Themal processing using electric current 4. Explorationary and caradrep under the influence electrostatic field 4. Processing of boots by the electrostatic 5. Processing of boots by the electrostatic 5. Processing of boots by the electrostatic 5. Discrete plant of processing of boots 5. Discrete plant of plant of boots 5. Discrete plant of plant of boots 5. Discrete plant of plant electrostatic 5. Discrete plant electrostatic 5. Discrete plant electrostatic 5. Discrete plant electrostatic 5. Discrete plant electrostatic 5. Di
Integrated Waste Management	6	Providen of knowledge on waske management strategies and on happited washe management percipies: development of skills to identify and solve waste related management and treatment issues at different levels.	Taske management shategies are presented during the course. Maess of integrated works management, based on preventies and other schalators for different works shares, which making maining environments, and and economically source during an experiment in parateles and the source works management, paratelest and the schalators are hapd. The source/paragement analyses and readed paratelest and the source and and the source and the source analyses and extend paratelest prevention (sinular economy) methods and implementation shategies.	Legal requirements, principles, Ille grude separator in waste management Z. Visce properties, classification, conductor and sorting X. Visce transporter et all separation constrained benes X. Visce transporter et all separation constrained benes X. Visce transmitter benefacies, INVEE to the provide benes X. Visce transmitter benefacies, INVEE to the provide benef X. Visce transmitter benefacies, INVEE to the provide benef X. Visce transmitter benefacies, INVEE to the provide benefacies X. Visce transmitter benefacies, INVEE to the provide based on circular economy concept
Expressing Economics	6	Aquine the economy and efficiency of the operational engineering understand the need for investment financial or guardeau perform an economic analysis/introduce to the innovative cycle of products services.		
Smart and Sustainable Cilies	6	To develop comprehences and provide knowledge in engineering, behanding and economy, that a secteral for evaluation of a substantial providence development and and an economic and forek energy. Itrasport, building, related systems and other significant parts of the development and the sector of the sector of the sector of the significant parts of the development of the sector of the sector of the sector of the development of the sector of t	I requests toxologie in actical academican white developing a statisticate day unan development concomine, equipressi and costal denotes. This shade provides compression for evaluating toxologies and the statistical stat	1. Inducation 1. Inducation 3. Galls For Utahe Statisticabily 3. Galls For Utahe Statisticabili 5. Gly Systemis Tenagy Gly Systemis Usability 7. Gly Systemis Usability 7. Gly Systemis Usability 6. Strepresenting in sustainable city ecosystem 8. Entrepresenting in sustainable city ecosystem
Smart Mobile Communication Networks and Applications	6	To obtain knowledge about technologies and their implementations aspects in smart mobile communication (SMC) networks. To analyze the deployment principles and options of Apps.	Stades are subjet to understant the phropise of ament mobile communication (SMC) relativisation service). The browledge addo tado interfaces addo taddo tad	
Development of Otallenge Based Innovation	3	Erable students is tokine conglex real-file challenges in an invovation way by dopting the challenge- based learning approach and working in interdisciplinary and intercultural teams.		
Development of Otalienge Based Innovation	6	Enable students to toxine complex real-file challenges in an incrustive way by stopping the challenge- based learning approach and working in interdisciplinary and intercultural teams.		
Resource Recovery Technologies	6	To gan skits for assessment of technical feasibilities and economical and environmental benefit for recovery of travenateristic, energy and water resource from antroposphere in the context of circular according.	After completing this module, students are able to evaluate a storhical feasibilities for poduct and energy poduction resources and water recovery from anthropophere, comparing them economically and environmentally with the acquisition of the same resources in nature.	Tradicional resource extraction from the lithosphere, biosphere and hydrosphere. Circular economy principles Recovering of methal and non-methal can annulated from wate A rais and energy recovering from states A failed and energy recovering from states A failed and the states exception for the states A failed and the states exception for the states A failed and the states exception for the states A failed and the states exception for the states A failed and the states exception for the states A failed and the states exception for the states A failed and the states exception for the states A failed and the states exception for the states and the states an
Accounting for sustainable engineering	6	To provide with stand troubledge and managerial competences to develop measure of corporate technological, environment and social performance, sussessing their relativity, foreign to settemin stakeholders, and making strategic and operational decisions that affect environmental costs and risks.	The satisfiability managem must understand the francial costs and beeflis of substantibility practice. During this count diversitianty of the diversitianty of the diversitianty of the diversity of the diversit	1. Notacian 2. Beauring sustainability on company level 3. Environmental management cost accounting: methodology and practice 4. Sustainability indications of a company 6. Sustainability indications of a company 6. Sustainability indications of a company 6. Sustainability indications of a company
Quality and Sustainable Development Management	5	To dota translegs or quality management and substitutive development, as well an explaitive to appearent systems of quality environmental management, corporate responsibility and occupational safety.	Exercite Interfactionary local-log of calling management and substantial development concept a suggest many substantial and quality management and substantials development implementation methods and tools is understood and the organizationary practice skills are built in development of the implementation methods and tools are used as a substantial net provide the implement the understanding in practice. It is implement systems of compares acoust responsibility, quality and environmental management and occupational health and safety.	1. Concepts of a statistication development, supported to void responsability and quarkiny management. 2. Substantials development policy and SSG 2-14 values inspromet for Quarkinson ² 3. Evolution and the main herwise in quarking management (TOM, DG 9000, ETGM, CAP) 3. Evolution of quarking and quarking management (TOM, DG 9000, ETGM, CAP) 3. Restlation of substantials development approaches in organization (SSA, BO 14000, EMAS, SA8000, OHSAS) 6. Evolution of quarking and quarking managements 6. Evolution of quarking and quarking managements 6. Evolution of quarking and quarking a

		To any data behavioration for an and a second s	Redeal to able to work taken with the	1. Theoretical models of risk governance for the complex risk and security issues
Compenensive Studies of Task and Security leases 2	6	To provide metrodrophony troverdege and analytical kills for the exploration of complex wisks, related to behaviory of websitement expections provide undersonal sphere; becerical models of risk governance proposing solutions for these problems.	compare index, extends technological development (include arrange, bio, rano-technologies, opher executiv), apposition executive, indexion executive index i	2 Technological risk and searchy tasses 2 Technological risk and task a
Composile and Wooden Structures	6	use in construction.	and behaviour of finite ma a construction material, as well as projects of structural estimation and an experimental in the course. Comprehension is majoring and understoring the instruction composite introducts, in structures, mechanical devices or under functions and long-term effects and course of the structures are gained.	2. Composite methodia of reve forkmologies. 3. Composite methodia of reve forkmologies. 5. Angling in composite structural method 5. Angling in composite structural method 7. Delay of forward composite elements 7. Delay of forward composite elements 10. Angling in composite structural method 10. Angling in composite elements 10. Angling in composite elements 10. Angling in composite elements 11. Angling in composite elements 12. Angling and Delay of Composite elements 12. Angling and Delay of Composite elements 13. Angling in angle of meters based 14. Composite and Delay of Composite elements 15. Angling in angle of the Resters in Compression 15. Angling in angle of the Resters 15. Angling in a different forking of Theorem Composite 16. Composite and Delay of Composite and Thyloid Structures 15. Subtainability of Composite and Thyloid Structures 15. Subtainability and Duality of Composite and Thyloid Structures 15. Subtainability and Duality of Composite and Thyloid Structures 15. Angling in the Structures 15. Subtainability and Duality of Composite and Thyloid Structures 15. Subtainability and Duality of Composite and Thyloid Structures 15. Subtainability and Duality of Composite and Thyloid Structures 15. Subtainability and Duality of Composite and Thyloid Structures 15. Subtainability and Duality of Composite and Thyloid Structures 15. Subtainability and Duality of Composite and Thyloid Structures 15. Subtainability and Duality of Composite and Thyloid Structures 15. Subtainability and Duality and Duality of Composite and Thyloid Structures 15. Subtainability and Duality of Composite and Thyloid Structures 15. Subtainability and Duality of Composite and Thyloid Structures 15. Subtainability and Duality of Composite and Thyloid Structures 15. Subtainability and Duality and Duality and Duality of Composite and Thyloid Structures 15. Subtainability and Duality and Dual
Leadership	6	To acquire theoretical increasings of teaching phenomenon and process, to be also by an and analyse action of a manager as a team loader of the rmalds as used as the develop the skill of leadership, communication, information, analysis, collical thinking packets existing meases), and the skill of the	Stadents will have acquired the key toxicity of tradectricity in an organisation based on theories of lasked ratis. Laskedwin, this meterophone at a down and the second tradectricity is a second tradectricity of the effective leadentity. The perspective for individual development of lasker trade is designed.	1. Laderbing beamers and importance 1. Laderbing beamers 2. Table, more of the transmission of the transm
Catering Science and Technology	6	To provide knowledge about innovative catering technologies by developing the ability to organize statisticable and environmentally filework (bood production and service systems.	Concept of callering lectrology are acquired, involving and activity product production and service systems a explicit, and practice shifts are shall in order to develop the shift to apply innovative solutions in designing a subtancible, environmentally feesity callering service system	1. Cubring particular systems 2. Subrange particular systems 3. Subrane systems 5. Introductive service systems 6. Soutanability in catering systems
Photovoltaic Materials	6	Understand the offlerences between various solar cell architectures and evaluate their characteristics. Analyze advantages and deabacks of polymens and low molecular weight compounds used in photovitai: technologies.	Knowledge about the mensable energy sources, possibilities of the application, principies of operation of solar certain their hey obstactication is provided. Analysis of the ophysees and com- melocular weight compounds used in solar cells, as well as their characteristics crucial for application in the photonobles, is conducted. Review and analysis of the culting-edge research conducted in this areas is performed.	1. Alemaint Energy Sources 2. Alemaint Energy Sources 2. Alemaint and the selectorization 2. Debugst provides dist in the selectorization 3. Debugst provides dist in the system crudit scale writing and 3. Debugst provides dist in the System crudit scale writing and 3. Future outloak of the Spare crudit scale writing in the selectorization 3. Future outloak of the Spare crudit scale writing in the selectorization 3. Future outloak of the Spare crudit scale writing in the selectorization 3. Future outloak of the Spare crudit scale writing in the selectorization 3. Future outloak of the Spare crudit scale writing in the selectorization 3. Future outloak of the Spare crudit scale writing in the selectorization 3. Future outloak of the Spare crudit scale writing in the selectorization 3. Future outloak of the Spare crudit scale writing in the selectorization 3. Future outloak of the Spare crudit scale writing in the selectorization 3. Future outloak of the Spare crudit scale writing in the selectorization 3. Future outloak of the Spare crudit scale writing in the selectorization 3. Future outloak of the Spare crudit scale writing in the selectorization 3. Future outloak of the Spare crudit scale writing in the selectorization 3. Future outloak of the Spare crudit scale writing in the selectorization 3. Future outloak of the Spare crudit scale writing in the selectorization 3. Future outloak of the Spare crudit scale writing in the selectorization 3. Future outloak of the Spare crudit scale writing in the selectorization 3. Future outloak of the Spare crudit scale writing in the selectorization 3. Future outloak of the Spare crudit scale writing in the selectorization 3. Future outloak of the Spare crudit scale writing in the selectorization 3. Future outloak of the Spare crudit scale writing in the selectorization 3. Future outloak of the Spare crudit scale writing in the selectorization 3. Future outloak of the Spare crudit scale writing in the selectorization 3. Future outloak of the Spare crudit scale writing in
Meat Products Science and Technology	6	To Provide Knowledge About Innovative Technologies of Meel Products, traprovement of Product Selety and Quality and Cheating of Higher Added Value by Applying Sustainable processes of Manufacturing	Depert twoledge of med processing lectrology, the use of additions and sublituits and their interance on function and technological properties is acquired. Method is exercising the functional properties of mesh, its products, additives and exabilities are iterated. The students will be able to costen incides for the decision data and unit of the cause of method product failures. Noneledge about the possibilities of processing metiof all and by products, creating value added products is sourced.	Lostinate becknologi and advanced dechnologies for may processing Costange be address to be processing that any provides it non mest processing A root address in mest processing Most address in mest processing Most frame, there types and cauge characteristics Most frame, there types and cauge characteristics Most frame, there types and cauge characteristics A consider, classification of mest products and formulation of their recipes
Module Construction and Regenerative Design	6	To acquire interdisciplinely knowledge about the design, production and construction of modular buildings using regenerative design methodologies.	Rowledge a povidet dout he ofference believe huiding construction or a construction the and in a factory, the solvatege and doubledges, the merieneitive at adoption design design strategies under consideration are designed to create living and working environments.	1. Regenerative design 2. Boldwar construction. The adventages and challenges. 3. Team building boldwar construction. The adventages and challenges. 3. Team building boldwar construction team boldware beended boldware
Methodology of Science and Scientific Research	5	To know the solarce are a phenomenon, to supply busids and entried sign the density of the functions, the logic of solarce and the language of solarce, to assimilate the knowledge of social research.	Search for society devolutions and a phenomenon is equivalent, understanding the advancely of devolution for society depresent and valualizability, and the importance of searce in country devolutions and organization; aspigan the understanding of the importance of searce in country devolutions; and and a search and a searce in the importance of searce in country devolution; the searce is a search and a local or in the devolution and searce in a search and a search and a searce in the devolution of the search and and phase is a search and a search and a local or in the devolution and qualitative research datagent, scientificatly based data patients and analysis methods.	1. Significance of solance to the scuring Monitories Casils and relationship of solance in community developme 1. 2. Societies closed closed solance close closed solance close closed solance closed closed solance cl
Inequality and Justice	6	To provide nonvelety about from of inequality and their causes in accely, develop akilis to ensure equility and place track, which the polarise of nequality and discrimination at national, separatelional and international levels.	The subset analysine lookelege about committee and legs presentations of accessing analysis on operations or ad constant and analysis and analysis and analysis of the subset of the subset of the subset of classical instance and subset of the subset of the subset of the subset of analysis of the subset of operations of an accessing subset of the	1. Concepts of pulses, legitimes, inequality and isocrimitation in noutry paroles and acateric discusse 1. Concepts (Res.), Operational and provide and expert of the second sec
Organizational development	5	To get knowledge that enables accessibly solve the challenges of the organizations and to develop the complexions to create an organizational development attacky and the indementation grane, to adopt monotive solutions for human resource management and organization landsmarks to conditions of uncertainty, after evaluating alternatives by adopting the most effective organizational distuicters, molection systems and developing the cubice of the organization.	Introducplinary knowledge and competences based on high-level scientific research and experimental development and exable ju solve strategic challenges of organizations in valicus many scientific sciences and sciences and sciences and sciences and sciences and many sciences and sciences and sciences and sciences and sciences and sciences and many sciences and sci	Sindapić development of an organization Sindapić development ensource management systems Sindapić development ensource Sindapić development Sindapić development Sindapić development Sindapić development Sindapić Sindapić development Sindapić Sindapi

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Distributed Energy Sources	6	To provide knowledge for students about the development of distributed generation, the impact on databution and transmission network operating, management and economic assessment offers and the student of the stude	The student are length to low the problems and consequence of distributed gover generation utilization in poor system, through howedge developming developments and the student and the stude	
Building Data Analytics and Machine Learning	¢	Se able to work with modern methodologies for the analysis of buildings and infrastructure data and the development of predictive models, using advanced moduline learning techniques and book.	The taby valued of designed to low are used balled to work with data of the built environment, proteining data versens to exclusion on an event whether the event horizon and event of everys, water management, external and internal divides, jobs or situ/caral characteristic data, solve management, event and internal divides of the event of the event of the event of the event ballecteristic gates whether the is construction of the event of the event of the event ballecteristic divides and the event of the event of the event of the event of the event ballecteristic divides of the event of the event of the event of the event of the event ballecteristic divides of the event of the event of the event of the event of the event protocestics, analysis, visualization, interpretation, development and improvement of forcial models.	
Building Energy and Environment	6	To acquire toxoledge about environment hubbling interaction froms, the influence of distance and distance of the serving distance of the building. To now environmental reasons methods, to be able to analyze the collected data, to forecast the building and the environment in death to building and the environment. To addit the building data of the presents, storage, threamstoon and efficient datage and be able to assess the energy performance of the building and the environment in death of the building and the environment in death of the building and the environment in death of the building and the environment is death of the building and the environment in death of the buildings and the environment is easier.	The states acquire abilities to understand the forms of interaction between the structures and the environment, the assessment indexulo, hishing possibilities, manning who countest, analytical data collection, analysis and scientific prescassing of the interaction. Obtain the knowledge of efficient energy angest efficiency increases implementations in residential administrative and industrial blocking, methods of determining and analysing the energy performance of the buildings and engry acquired, sciences and and ensuing the energy performance of the buildings and engry acquired performs and an endpoints the energy performance of the buildings and engry bases.	E. Environment Internet to balling, an influence to environment forms. 1.1. Monitoreality Learning Control (Learning) 1.2. Monitory (Learning) 1.2. Monitory (Learning) 1.2. Monitory (Learning) 1.2. Proceedings) 1.3. Proceedings 1.3. Proceedings) 1.3. Proceedings 1.3.
Reliability Theory and Applications	6	To learn to analyse reliability by applying reliability theory and statistical methods.	The students are mastered the knowlege of reliability models and the methods of statistical analysis of reliability.	1. Reliability Characteristics. 2. Starkstor, Reliability Data 3. Starkstor, Reliability Data 4. Estimation Using Parameteric Models 4. Estimation Using Parameteric Models 4. Estimation Using Parameteric Models 5. Reliability Society (Revealed Detects. 7. Models of April and Kondensteric Methods. 7. Models of April and Kondensteric Methods. 8. Hypothesis Testing in Reliability. 10. Reliability Control. 10. Reliability Control.
Methods and Means of Heritage Management	б	To know the legal bases of trentage management, directions of this activity, methods, means, To be able to apply in practice the organization of sustainable use and protective management of cultural and natural heritage values.	Students are provided with trouvledge about the concept and guiss of heritage management, methods and directions of heritage management. The importance of authoritoty in heritage management, isam to aboute and apply heritage management management and and an application of authoritoty and	Conception of the territage object and arms of territage protection in XXX a To Decidion of activity of territage protection To Decidion of activity of territage protection Conception and objectives of cultural territage management Conception and benchmarkage providem and effective use Conception and territage providem and effective use Conception and territage protection Conception and territage providem and territage management Conception and territage providem and territage protection Conception and territage providem and territage protection Conception and territage providem and territage Conception and territage providem and territage Conception and territage providem and territage Conception and territage management Conception and territage management Conception
Advanced and Specialized Textle Processing	6	Ta ponche traveletja doci stancar jema, svom noti bilot takci, sot norevnos technologijat poncennja, tochnica and specialized lakrica poperles, anas ol use, travelsta modeling specifica ol narufacturnej.	According of detraneed waves block, bills and converse granessing explorent specified introduced and geneticitation randowlamp is proved. Ability our server of blocks forming process for wome block formation modeling is balanced. Theoretical and practical problems, possibilities and achievements in development of waves flahics, knits and roneovers manufacturing locitodigies.	
Al-ancel Optimization and Control Methods for Bildechnological Processes	6	To teach understanding about the types of biotechnological processes, mathematical models of typical biotechnological processes, optimization and control methods, and to be able to surve systeal modeling and optimization problems of biotechnological processes using MattabiSimuluk environment.	The students are target to maker the types of boneactors and biotechnological processes, key biotechnologica parameters, to brevelo mathematical models of the processes, the mathematically minimale typical distinguishing posteriors, the interaction of the single model and to poly them in engineering packs, to model and to optimize biotechnological processes using Mathabatical single management.	Nonces modeling, using Matila and Simulific program environment Z. Boneckord and biotherhological processes Z. Types of Jonesman and State (State (Sta
Dairy Science and Technology	6	To provide toxolvelage of invovative daily toxinologies and sumaticable production processes, product quality and safety assessment and improvement, ensuing bod diversity and competitiveness.	Executed and y scherolo and technology investidation is explored and practice addle are built in order to adjust it in movider we assumables individually processes and practices and adjust of adjust pracetar, it can be technological processes influence on the dairy product, tautily and safety, on the specificities of dairy production technologies and applied innovative research methods for dairy analyse.	1. Involvement war unterstandligh viel behöringsing processes and a robucktion 1. Kerks traitering forcesses of her ingend circle and product galarly und stellary 3. Centrifuguities and homogenisation processes in the dary inductivity 4. Marchines fittation conserves and minimum and any product gravity dark 4. Burghoven fittation conserves and minimum and any product gravity dark 5. Dary production environment with statest biologically active substances 6. Dary production environment with statest biologically active substances 6. Burghoven and the trajecticity of the production technologies 8. Burghoven and the trajecticity of the production technologies 8. Burghoven and the trajecticity of the supportance 5. Burghoven and the support of the support of the support 5. Burghoven and the support of the support of the support 5. Burghoven and the support of the support of the support 5. Burghoven and the support of the support of the support 5. Burghoven and the support of the support of the support 5. Burghoven and the support of the support of the support 5. Burghoven and the support of the support of the support 5. Burghoven and the support of the support of the support 5. Burghoven and the support of the support of the support 5. Burghoven and the support of the support of the support 5. Burghoven and the support of the support 5. Burghoven and the support of the suppor
Python for Data Science	6	Develop competences in using Python programming language, standard literaires and packages of the ecosystem, command line, c2 version control system, means of distributed computing and other tools for sching problems in data analysis.	General principles of software coding, version control system, facing of the summing application, software documentation, standard Phyno libenies and additional packages for data aquation from different sources are standing. Competences are encodered in organiting manifester samma are standing to the standing applications using payline abstration, elenering functionality of and creating new Python packages. Competences in using Python packages declated for data valuatization is developed:	Introduction. Data anrights using general purpose software bols. 2. Lona, operational graines and terminal (command line interface). 3. Of vession control synthesis of Pythona polyamemical synthesis. 4. Fundamentals of Pythona polyamemical synthesis and the interface synthesis of the interface syn

Polymers for Advanced Technologies	6	To provide the knowledge or production methods of polymers used in a characteristic understand their combination of between which is needed for the innovative products.	The ability of search the chemical and phylical structures of physimes predetimning their exclusive properties and important loss in advanced technologies. The ability to evaluate photodion, poperties and applications of physimes used in decironica and ophetechnologies. The ability to evaluate the physical relationship application period. Physical properties of medical physical relationship applications and the physical relation and the physical relationship technologies.	1. Sawy of the methods of synthesis of opymers 2. Polyanic controls and physical structure of polymers determining their unique properties 3. Polyane controls 6. Polyane in a micro interaction and physical structure of polymers and the 6. Nanutacularup polymers materials and their applications 6. Nanutacularup polymers and polymers obtained from renewable resources in advanced lochrologies
Polymer Recycling	6	Provide in-depth knowledge and develop the ability to apply polymer waste negoting methods	The statem got deep knowledge on the environmental and economic incontence of polymer recycling. Subsets as minor to biolowing paties of poly polymer water determination and polymer techniques, exubate compatibility of patienc, seted the appropriate methods of plastics includes and the minister polymers and the ministry of environment environment polymers and their ministers (propriate, demonstration, hydrococking, patientation and themat environg) extend the photo- and biologicability polymers for new products.	
Polymer Matrix Composites	6	To provide knowledge about selection of composite structures materials and production processes, te able to evaluate the properties of composite materials.	manufacturing nethods, ot auctionistics of the polyner mattix composites. Knowledge about recycling possibilities for polyner composites is acquired.	1. COMPOSITE MATERIALS, THER RECLUMENT 1. COMPOSITE MATERIALS, THER RECLUMENT 1.2. Composite of thereprese to theready exploration thanks 1.3. Composite of theready exploration thanks and there is the theready exploration thanks and the term of
Modification and Applications of Polysaccharides	6	To assimible hookedge about the complex properties of polyaexcharides and to understand their modification processes in order to get high-value-added non-food products.	The course will provide an individual to the most widely use indicated polyacchateles (cellulae and attach) Moldification and processing technologies of polyacchateles the be epished in statical Statefield will be built be understand the device of technological processes, depictives, to choose the production knological scored by the second exclusion of the state polyacita in the indicated of the technologies of polyacchateles and the device polyacita indicated on the device polyacita indicates and the	1. Casalization of polyaschardes and prevalence in nature 2. Canvair indification of active you get include to jouxchardes (politices and starch) 2.1. Introduction of active groups into macrometociae of polyaschardes 2.2. Destinuiting of polyaschardes 3.3. Pipola indification of most weldy user industria polyaschardes (politices and starch) 4.4. Colliciols Res. Programmed and programmed in the polyaschardes 5.7. Pipola chardes in page and statis inclustries 2.2. Polyaschardes and storeties 2.2. Polyaschardes and storeties 2.3. Pipolacian chard polyaschardes 3.7. Pipolacian chard polyaschardes 3.7. Pipolacian chard polyaschardes 3.7. Pipolacian chard polyaschardes and inclustries 3.7. Pipolacian chard polyaschardes and polyaschardes 4. Polyaschardes and polyaschardes and polyaschardes 4. Polyaschardes and polyaschardes and polyaschardes 5. Pipolacian chard polyaschard poly
Environmental Impaci Assessment	6	To gain to understanding of the complex concept of environmental impact, address of a themstand and englished or strategies environment assessment (SA) and environment (SA) and environment (SA) and (RA), enabled and endocling of any operation of the sessment of a series, team have to select and apply the appropriate EX methods for the sessment of series enhibitional, when we have the select and apply the activities in order to reduce their possible regative effects.	In hits module, the howenedge of the definition of drawned activities and understanding of the objectives of involvmentel impact assessment and strategic exclusions basessment producting. Involvmental impact assessment and strategic environmental assessment assessment productings for environmental impact assessment and strategic environmental assessment is developed.	
Technology of Industrial Bioprocesses	6	To provide knowledge about the latest inclusival topprocesses and bottechnology related to botters, bioenergy and bipolymeric products.	Theoretical and practical knowledge provided abud blocket and blocketty and blockymeric products for the production of bomsas and application blockmichogy and blockymered process is a microbial conversion stage, encymera, and au ed disergents / Intelle manufacture, as well as the microbial conversion stage, encymera, and au ed disergents / Intelle manufacture, as well as the microbial conversion stage. The translated are produced of their processes impact on product quality, an environment and implementation is the manufact dised/prest.	1. Induction to lackhologies of toulomicals; grees chemisity and related toulenchalgy convergence. 2. Bechanier production from 5 Sagues at earling biomass technologies. 3. Bechanier (activation from 5 Sagues at earling) biomass technologies. 4. Bechanier (activation from 5 Sagues at earling biomass technologies. 4. Bechanier (activation for the second sec
Product Development	6	To previde knowledge of market analysis, product design, engineering, manufacturing and negoting principles that allow to develop marketable and successful product.	A et of enhous combining maketing durings and manufacturing papers of product devolutioned and acquired. Stockers are also analyze customer week, estability product during, generals and evaluate cuncepts, decide or product architecture, from product portificios and embody final product design based on "design for X" methodologies.	1 Falsarg of Policial Devicement 1.1 Policial Devicement Processes 1.2 Policial Devicement Processes 1.3 Policial Devicement Processes 1.4 Exhibiting Spread Polician 2.2 Policial Tearlion 2.2 Policial Tearlion 3.1 Concept Design 3.1 Concept Design 3.1 Concept Design 4.1 Devicement Design 4.2 Policial Architecture and Polician 4.2 Policial Architecture and Polician 4.2 Device Polician Polician 4.3 Debit Polician Polician 5.3 Design to Individual Polician 5.3 Design to Indida Polician
Software Maintenance and Evolution	6	To provide fundamental involvedge and addities in software maintenance and improvement based on software maintenance principles, models, methods and processes, and empiric base.	Conse provide knowledge on the life cycle of software. Software Engineering Body of Knowledge as analysis of characteristica and exolution trackatorian providents and nethods, analysis of characteristica of legacy systems, evolution of legacy systems, torbane charge and amplications and analysis of the system systems and the system system systems of provident and the system system system system systems of software systems and systems and software systems and systems and software systems and systems and software systems and systems and measures.	1. Besk, Diperken, Diper, Cometa, Shucular and Methodologi of Shitmer Maintennice 2. VERSION model of sharker maintennice calcing sharks, provsests, problem and methods 3. LegarS System. Characteristics, Evaluation and Maintennice 3. LegarS System. Characteristics, Evaluation and Maintennice 3. LegarS System. Characteristics, Evaluation and Maintennice 4. LegarS System. Characteristics, Evaluation and Maintennice 5. Marinahold, would be an extension of the sharks and animation. Excurrentiation 4. Solvand charge sharks and characteristics 4. Solvand charge sharks and the animation and the sharks and animation and the sharks and animations 4. Torchard debt management in software management 4. Modern methods and toxid is done waterease
Management of Regional Development	6	To provide transledge and develop competencies necessary to initiate, plan, organiza, implement and monitor sublicable development of the region, to prepare region marketing and communication anterges	development immegnener (process, excits and tooks subdetts gain practical skills required to a analyse, develox, poly and assess sporal development management ensu. Subsets acquire knowledge and learn should practice necessary for preparation of usabitrable development shategy as well as manking in communication strategies, learn how to self-ct measures of mplementation of the strategies and monitoring look.	1. Concept, typology and shuchure of regions; the role of regions in the context of multi-level governance 2. Tegoral development: a sina, process, activit and technology process, context 3. Statistic operand process of the sinal statistic operand statistics 3. Statistic operand process of tegoral development management of determines 4. Statistic operand process of tegoral development and statistics 7. Process and produce management of determines and similarities 7. Process and produce management of determines and similarities 7. Process and produce management of tegoral development in thuman 8. Regional maneform of ferring and development 8. Regional maneform of produces and evelopment 8. Re
Oil Science and Technology	6	To provide traveledge about fastilition and innovative of processing, modification and datilitation internologies and substantion production processing, modification and estimation develop skills necessary for development and implementation of technologies for production of deferred composition of based products.	Receivelge also thatitional and innovative of processing, andifaction and stabilization technologies and subanishie production processes, as well as hyports, divertical and methatiss processes, reactions of to during processing and their influence on product quality and safety is angularity. If the stability of the stability	1. Subtained technologies and immodifies methods of of processing 2. Subtained technologies (a) and after immodifies in the development of new products. 3. Of institution technologies (b) adoptimistics in the development of new products (b) additional additionaddity additional additionadditionadditionadditionadditionadditionadd
Selected Chapters of Organic Chemistry	6	Studes with tasks undergatude inter Opanic chemistry however, will in identify in, unarge and onle contexp context in values a syniform granic chemistry, and meet the incodedge to choose the methods of synthesis of specific research works.	Gening traveledge about the main modern organic synthesis concepts that enables to identify, analyzer and color compete positions in virtual case of drythick organic chemistry. Acquire traveledge about the basic methods directional groups transformation, principles of methods organic chemistry. Its subtrives intermediates, the total sea of methods of modern organic synthesis labotatories. It provides an ability to develop more effective and environmentally iterative methods of the preparation of organic components.	1. The main concepts of modern spifele caparic chemistry 2. Noncepts of submitted elemistry 3. Notem the observatory caparic spifeless technologies. 4. Reprise spiteless 5. Notem entered screen spineters and spineters 5. Notem entered screen spineters and spineters 6. Notem entered screen spineters 7. Reprise spiteless 7. Reprise spiteles 7. Reprise

Risk and Security Governance	6	To provide knowledge about risk notion in social treory, interdiopinary approaches in social analysis of risk, hensi and possibilities of technological development, indequases of risk distribution in varions ascal groups, develop all bit bankparts per portiones of at significant and governance abouting socialmable development and poing human security problems.	Students will aquire knowledge about nik notion in social theory, will understand niterdiciplinary approaches in social analysis of nik, all understand the thread and possibles of technological development all all quartical with indexpectation of advanced in more social groups, all be able about the social possible of the social social social social possible of the able about the social possible of the social social social social social social social social and solving human security posterio.	1. RISK AND SECURITY: PROBLEMS AND INSTITUTIONUL FRAMEWORK 1.1. The notion of rule, Global via k and exulty problems. 1.1. Clochrapkia - usights benneck of rule and exulty genetation 2. Clochrapkia - usights and benneck of rule and exulty genetation 2. RISK conformation and analysis 2. Risk programmation and exults 2. Risk programmation methods 3. Risk clochrammation methods 4. Risk conformation for rule constraints 4. Risk conformation of rule clockrammation 4. RISK Conformation and exists 4. Risk constraints 4. Risk conformation and exists 4. Risk conformation and exists 4. Risk conformation and rules 4. Risk conformation 4. Risk conforma
Relationship Marketing	10	To provide knowledge of relationship marketing and to develop the akills to make adequate docsions on customer relationship development.	The increasing of relationship marketing is marketed and the skills to make adequate decisions on construme relationship exclosement in various busines systems are agricar. Substration as also be density for adigited or calcinome instrumbulgi like cycles. The mithols of calcinome value assument are decision or another or the constraints of the constraints of the constraints of the constraints of the decision or another or the constraints of the constraints of calcinome value assument are decisions on calcinome. Skills in assessing and use of relationship marketing techniques, foresee organisation transformations when implementing relationship marketing are gained.	1. the courd of reliability markeling 1. The courd of reliability markeling 1.2 Differences between thread-class and the reliability of the
Digital Winters Technologies	6	To ponder towoledge of digital witheres short-argo community mutual to the the design that indicates block designs (TAMM of donote best wireless system for K, to explore and investigate wireless systems characteristics.	The trondedge of functional architecture of modem digital weiness bord range communication systems is acquired. The ability analyse ability account of the set of the set of parts of parts in the set of the set of parts of parts in the set of the set of parts of parts in the set of the set of parts of parts in the set of the set of parts of parts in the set of parts of p	1 Cannot Drounding of Modern Westers Communication Systems 1. SNR Handhoog 1.2 UPWN Headnots and the fair and fair interests and data transmission 1.2 UPWN Headnots and the fair and fair interests and data transmission 2. Digital Interests and the fair and fair interests and data transmission 2. Digital Interests 2. Digit
Digital Sustainable Design Methods	6	Actives broadege about the enabloating of paremetric building telemention encoding BBD. Indexees, analysis methods, software, and learn to use sustainable design principles with modern software.		
Social Responsibility	5	Ottain detailed social responsibility theory and practical knowledge, understand forming of the reconstric, political, leggt, and moral relationships between the organization and society, be able to analyze corporate social responsibility practices.	Assiniating the knowledge and stalls that allow you to analyze and understand the unique characteristics of social responsibility, burriers, society and state interaction. Targht pradical skits to analyze, evaluate and the decision infrivation and in propur, with and and the decision infrivation and on propur, with and and the decision infrivation and on propure. When and important the transmission are also and the decision infrivation and the propuration and an analyze subtanable development principles, the different balance of interests.	In the CONCEPT OF SOCIAL RESPONDENTLY I.1. The context of scoid responsibility, I.2. Integrated and context of scoid responsibility, Contextuction ISO SOCIAL RESPONDENTLY I.3. Integrated and scoid responsibility, I.3. Social responsibility related and responsibility, Social responsibility related and responsibility.
Social Responsibility	6	Ottain detailed social responsibility fleory and practical increaledge, understanding terming the economic, political, legal, and moral relationships between the organization and sociely.	Asimitaria per knowledge and skills had allow you to snakize and nuderstand the unique characteristics of oncide expansitility, burgers of only and skill herback marging statist interfacts. Target particular skills to analyze, evaluate and make decisions individually and in groups, with scali responsibility, sustainable development principles, the different balance of interests.	1. Theories of nocial responsibility and evolution of theories 12. The interiments of social responsibility, therit functionality and different factors. 13. The interiments of social responsibility, therit functionality and different factors. 13. Comparison control of the standards. 13. Comparison control of the standards. 13. Interimentation of environmental interiments. 13. Interimentation of environmental interiments. 14. Comparison control of the standards. 15. Comparison control of the standards. 17. Examplementation of environmental interiments. 17. Examplementation of environmental interiments. 18. Comparison control of the standards. 17. Examplementation of environmental interiments. 18. Comparison control of the standards. 18. Comparison control of the standards. 19. Comparison control of the st
Special Catering Technologies	6	To gain knowledge on innovative food product technologies, to use item for improving quality and safely of products, and to develop higher value-added products through sustainable production processes.	An innovative bod technologies tronkledge is acquired and practice skills are built in order to develop a new tood properties: devined takine, color and arona, extending the shelf-life of the product and ensuing the subty of the foot.	1. Technologies of development of properties of tood products 2. Effect of each of the second product of the
Construction Logistics and Management	6	To provide nonvietige about construction business models of unional construction areas, perclaimtes of construction enterpoints and the injustice systems, and to develop skills repeating strategic plant to increase the competitiveness of the construction business.	Acquire throwing about construction balances models, peculiarities of admined or filtered constructions compares and a ging papalition; models for evaluating the compare's operational affectiveness. The formation of compary's development strategies, construction innovation development, if monitorial distribution and if compares the strategies, construction innovation development and monitorial distribution and if compares the strategies and and enderstance the strategies of constructions registers. Below the strategies and statists are and enderstance the strategies of construction compares, choose the sign instruction of decision making and real construction business.	1. Theoretical construction logicitic investigation and the area equipated and applied in rest construction business condition 2. Construction dama/projectimics: sustainable development and smart (2) construction on subsets and equipate development in construction industry. 3. Construction dama/projectimics: sustainable development and smart (2) constructions and set also sets and the sets a
Construction Project and Risk Management	6	To provide transledge about constructions project and role management steps, fill Anjoych ingradion, ingrementation models, to develop aller to plan, organic calles and advanced if the chologies, to manage data throughout the project life-cycle.	Acquired travelogs about the stages of construction projects and calls management and their implementation modes, the project of all to project, pair patient of construction between constructions project participants, the work of the construction project management group and the project manager. Allow project an extension of all project implementane and costrol group and the project manager. Allow project metaments are costrol group of the construction project and evaluate the efficiency of construction project management.	
Construction Project Management	6	To provide invalledge about construction project management stages, delivery methods and to develop skills to plan, organize and deliver projects by applying effective management models, methods and advanced TI book.	Acquired knowledge about the object of construction project management, construction project management stages and derive methods, forms and legal regulation of construction project participants cooperation. Unclosed or proof management and south tables and acquire statisment and acquire statisment and control to apply special cooperation and acquire statisment and acquire statisment and control to apply special constraining and acquire statisment stage solutions as well as construction project management effectiveness evolution.	Opec, essence and significance of construction project management. Principles of autainable development Construction project participants and there functions Construction project participants Stage of provide provide management. BM and LEAN applications for construction project management Stage of provide provide management. BM and LEAN applications for construction project management Stage of provide provide management. BM and LEAN applications for construction project management Stage of provide provide provide provide provide management Stage of provide pr

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Construction Management	3	To provide howledge about construction management and contemporary trends at EU and national levels. Numeries models views construction areas of providents down building enterprise advites and to develop skills in creating and preparing strategic plans is increase the competitiveness of the construction business.	Acquired travelogie about construction basiness modes, pseudiaties of activities of offenet constructions compares and angle application creation for evaluating the compare's operational effectiveness, he formation of company's development strategies, construction invovation that the second strategies and the second strategies and the second strategies and the performance of a construction company. See evaluating pairs for increasing the compatibieness of offenent types of construction companies, choose the right methods of decision making and mightementation.	1. Combuction management paculations at EU and national level. 2. Combuction index productions: sustainab development and smarth of portext. 3. Combuction indext pace development in construction indextry. 4. Combuction indext pace development indext productions and the second production indext pace development indext productions. 4. Combuction indext pace development indext production indext productions. 4. Combuction indext pace development indext production of productions and the second production indext productions. 4. Combuction indext pace development indext production of productions companies. 4. Combuction indext productions and the development indext production companies. 4. Combuction indext development indext production companies. 4. Combuction production indext and the indext production companies. 4. Combuttorial indext development indext production companies. 4. Combuttorial indext
Durability and Life Cycle of the Structure	6	team of professionals who over the entire structure life cycle from concept formulation to the construction, maintenance and operation of the densition.	The shockness file cycle stage is acquired and involves the ability to use releant information pathened Bill mode Subling management and ensure file information. The toxinedity action the operational environment, the potential elements defacils, expertise and tests methods of structures. Leads to sublindable management and the proper use of the structure in all its life cycles before demolition.	1. A should lead the stages 2. Schular ensagement using BM 2. BM stasks for the whole structure file cycle 3. BM stasks for the whole structure file cycle 3. BM stasks for the structure file cycle 3. BM stasks for the structure 5. BM stask of cycle and the structure 4. Busing service file the structure 4. Busing service file the structure 5. BM stasks of the str
Stategi Human Rescorce Maragement	10	To acquire the freedoctal knowledge of shalping human resource management, enabling to understand the reground of the human factor in two value created process. In the late to conceptualities the proceedings of shalping human resource management and to develop a human resource shalping halms into account the overall shalping of the organization.	Theoretical toxoledge and practical skills of initiality: human resources management and board method me periodice and tradege human resources to human setup method. The setup of the set	1. Issics of strategic hann resource management 1. The divide strategic provide at charance management 12. The principal strategic HRM 12. The principal strategic HRM 12. The principal strategic HRM 12. Additional strategic HRM 13. Strategic HRM 14. Strategic HRM 13. Strategic HRM 13. Strategic HRM 13. Factors 14. Strategic HRM 15. Strategic HRM 14. Strategic HRM 14. Strategic HRM 14. Strategic HRM 15. Strategic HRM 15. Strategic HRM 14. Strategic HRM 15. Strategi
Health Policy Management	6	To provide complex knowledge about European health policy exangement, problems, challengess and the influence of the sustainability of health care sector to the social processes.	Student will have obtained complex knowledge about Europeen health policy management, main problems and the influence of the suparhealth of health care sochr to the social processes. The abdamed complex knowledge will be critically evaluate its ether than an epidices in different countries.	1. HeA. TH OARE AS THE CREECT OF GOVERNANCE 1.1 Proceeding of Health Reidy, Hallin van system aaf fer 1.1 Proceeding of Health Reidy, Hallin van System aaf fer 1.2 Proceeding of Health Reidy, Hallin van System aan fer 1.3 Health of Health Concepts, Bonceldar all of exployed nood in cholds of Health 1.4 Health and Health Concepts, Bonceldar all of exployed nood in 1.5 Health and Health Concepts, Bonceldar and Health Hallin Health Halling, Halli
Processes of Heat Transformation	6	The understanding of their threathermation processes and gutterns are scapited, calculation and design of equipment are learned, analysis of transformation systems are taken in.	The protoget of transformation processes, calculation of protoget regulater of the groups of protoget on gas bagedung on and references one service. Gesping of advances group of accessing of the systems and evaluating them from both economical and environmental point of view are based and acquired.	11. Themotopart and model of heat transformation 12. Reverse hermodynamic cycle and processes compounding it 13. Reverse hermodynamic cycle and processes compounding it 13. Coefficient of early transformation 13. Reverse hermodynamic cycle and processes 14. Software for the intervention of the system 14. Software for the intervention of the system 15. Software for the intervention of the system 17. Analysis of Coefficient of the system 18. Software for the system 18. Software for the system 19. Software of coefficient of the system 29. Software of coefficient of the system 29. Software of coefficient of the system 28. Software of the protein and store of the system 28. Software of the protein and store of the system 29. Software of the protein and store of the system 29. Software of the protein and store of the system 29. Software of the protein and store of the system 29. Software of the protein and store of the system 29. Software of the protein and store of the system 29. Software of the protein and store of the system 29. Software of the protein and store of the system 29. Software of the protein and store of the system 29. Software of the protein and store of the system 29. Software of the protein and store of the system 29. Software of the protein and store of the system 29. Software of the protein and store of the system 29. Software of the protein and store of the system software of the system so
Modern Environmental and Technology Management	3	To lateb thorough understanding of motion approach and lacking of environmental problems, improvement of environmental performance.	The studen is to highly to understand the phonologic of nonsetape environmental management, the evolution, legit regarding of environment protocols possibilities to face angular environment and impact to the environment, implementation of cleaner production/publicle proversion. The students are toget to understand requirements and cleake environmental management systems.	
Modem Environmental and Technology Management	3	To provide knowledge about nocken approach and lacking of environmental problems, improvement of environmental performance.	The studes to a hugh to understand the provides of nearboy environment it management, the evolution, led required of environment production, possibilities to face angular environment in impact to the environment, implementation of cleaner production/policies prevention. The students are tought to understand requirements and create environmental management systems.	

Contemporary Human Resource Management Theories and Concepts	10	To gain a comprehensive, global, and reflective understanding of contempose y human rescurse transcense and concepts the mailes action can be the management of standing and politicity employees in an organization to achieve employee well-being and organizational audiancelity.	Theoretain lookelege about HKM development, desixed inucrions and practices is expained. Subsetti as add the strategistical or development, desixed in kurden even the strategistic in the strategistic strategistic and the strategistical or development and add the schward and practices based on employee employee social dalague and the promotion of human-herbrology instaction. Ability and HKM decisions related workfore parines granulated, statistical and add add addition, performance management and camer planning, statif development and add se soring and diversity management.	
Cleaner Production	6	To acquire introletéges about hit concept of Caster Photochot (CP), development tendencie, to leura palyong international BECP methods for exactions of caster Photochon papabilities and develop Caester Photochon Innovations. Specific depectives to beam hore to carry cal environmental action in the company, to one mainterial and encycl, kard entergy sharect on photoses and company lived; to develop Caester Photocholar projects, to evaluate environmental performance.	The student are thought to understand the basics of main monomental strategies, the advantages and disadvantages provided with honkedle of classer Production (Provident hose provident on CP methodology application within the company with purpose to honses environmental performance. Honkology of prevands and implementation of Provident to assimtless Provide with sound honkedlegs of the stel of generativities and immunities in divertigence of Resource Efficient and Datenet Production (RECP) - one of the eart hook of Sublemake Holdertal Development.	
Applied Microbiology	6	Studue, clastificate, physiology genetic of microorganisms, biochemical processes and control. Detection and identification of microorganisms, microbiological methods.	Microogramm, the main grappa and principles of systematic backris, trops, visu, bisconomy calegories. MonPrologic Medical Composition Medicalian, genetic Realistation, prevente Realistation, previous Realistation, previous Realistation, termination, visualitati microbiology.	1 Development of particular application of microarguments and microbiological processes. 2 Costination of microarguments flucture, investigation and particles of microarguments flucture, investigation and particles. 3 Microbiology of microarguments flucture, investigation particles and particles of microarguments. 8 Microbiology of microarguments flucture, investigation and particles. 8 Microbiology of microarguments flucture, investigation and particles. 9 Microbiology of microarguments and particles and particles and particles developed and particles an
International Industry and Business	6	To provide knowledge about the economics of international business, production, taske and the impact of economic integration on international business operations.		1. Development of international business and sittaging meangement 1. Development of international business 12. Survey and compare makets by means of primary and excoration planmation sources 13. Survey and international business 13. Survey and international business 14. Application principles of international sittaging planming and the rule to concelle enterprises 15. Application principles of entertransic advisory 17. Ingut of decomment integration to the enterprises 18. Application and the enterprises of the advisory 17. Ingut of decomment integration to the enterprises 18. Application and the enterprises of the advisory 17. Ingut of decomment integration to the enterprises 18. Application and the main advisory 12. Concept of submittable manufacturing 18. Application and the enterprises of the advisory 18. Application and the advisory 18. Application and the advisory 18. Application and the advisory 19. Development of the advisory 19. Develo
Engineering Electrodynamics	6	To give a lookedge abud the use of Clean's functions method for analysis of electics and magnetic disks, by provide a said combam mapping method for analysis of demonstrained fields, by minolace a method of neighest equations of finit order for axing of demonstrained field problems, to introduce a herey of propagation of electromagnetic waves.		1. The use of Cleen's functions method for analysis of electic and magnetic fields 1. The use of Cleen's hundres and hundres 12. Solation of electrostic problem with Dirichle bundway conditions in hergitane. 13. Solation of electrostic problem with Dirichle bundway conditions in hergitane. 14. Solation of electrostic problem with Dirichle bundway conditions in hergitane. 15. Application of the Cleen's functions method for analysis of plan fields. 15. Application of the Cleen's functions method for analysis of plan fields. 15. Application of the Cleen's functions method for analysis of plan fields. 15. Application of the Cleen's functions method for analysis of plan fields. 15. Application of the Cleen's functions constitution of cleans and stranget fires. 15. Application of the cleans of Diabonalysis functions. 16. Solation of electrostic field evolution to static and quasitatic field problems. 15. The stranget of continue integral equations for solation to static and quasitatic field problems. 15. Applications 16. Applications 17. Here the Cleans and th
Technology fends and transformations	5	To acquire toxeledge based on seasch, development and inducting approach endler up during seascing charlings and develop competinces of inducting gene bases populatilies through assessing technologies threats and transformation, designing and mplementing products, process and technologies and mercellon implementation models for organization growth and transformation.		1. Company products development rates/gr 1. Ponductor evelopment rates/gr and rules, differences and duces 1.2. Company capabilities, strength and competitiveness strategies 1.3. Denoting out enterties trategies and rules, differences and and rules and the strength and rules with the strength and rules, differences and rules and rul
Technology Venturing	5	Provide business and venturing competences for transferring technology concept into the business model, venture capital attraction and shape entrepreneutial behavior as a professional feature.	The course stain at learning and practication the functamental skills required to assess a beholding coursed or product in the thermerk's of a business producting, effect and clinic non-lear skinlarge that will produce substitution differentiation, white business mode transmit a result of the skill product and the differentiation of the skills are substituted as the skills that the skills are shown as the skill skills are shown as a skill business and the skills werture capital deals, and exercising entreprenential management skills.	
Technology Venturing	10	Provide business and vertiling competences for bandlering technology concept into the business model, vertiling and shape entropreneutial bahavior as a professional feature.		1. The Principles of Technology Netwing 1. The Principles of Technology Netwing 12. Technology Netwing opportantly assest and technology technology netwing 12. Techno
Territorial systems	6	To acquire knowledge of territorial systems and their concepts, terms, activities, object, obj	Students acquire theoretical and practical knowledge of spatial systems and are aliate pupyl landscape management paradity and enholds on those of paradical devices in the paradice of nature use, cultural landscape formation/creation and environmental management.	1. Akalay di adjusto, he concept di teritinital systemi, key terma and concepts 2. Clashicard Geneculari Basicard Geneculari 3. Clashicardine di advancemental di Littuacian and their influence on the planning activities 3. Subandone esologica di advancemental di Littuacian and their influence on the planning activities 3. Subandone esologica di advancemental di advancementatione di advancement 3. System di prostatici areas 4. System di prostatici area
Research Project	6	To acquire knowledge, abilities and research skills by analysing the problem task in the field of subanable and energy efficient building (performing analysis of scientific literature, compling a research pian, choose research head-too, choose choose and performing and presenting the results of privary research).	Research skills are mastered, enabling to define and practically solve the tasks of designing sustainable and energy efficient taskings, applying modern methods of engineering calculations and sounds calculate. Applying and/or treatment to bomulate a research cancer by interpreting sounds and using and/or search methods that will be used to complete the master's thesis. Applying and/or search methods that will be used to complete the master's thesis, and applying present research methods and docum tipols related to sustainable and energy efficient building.	1. Review of the scientific literature 2. Review of the scientific literature 3. Review of the scientific literature 3. Review of the scientific literature 4. Summarizing are marked or the entered to poled and formulating conclusions 4. Summarizing are marked or the review of the review of poled and/or a scientific paper 5. Preparation of the review of the review of poled and/or a scientific paper

Vehicle Dynamics, Merscion and Energy Efficiency	6	To gain entenvie konselleg in nettodo d dynamic and exectly of vertices and vertice behavior trends of every efforts assessment. two the projects behavior do professional in gaseria, environment. Specific goals: to be able to assess the practitities of vertice notice under whose conditions, develop vehicle and motion models, process and integrat the result.	Students tame to develop dynamic venicle models for version and constructions and apply them to solution of tasks in version behaviour, preference to mostanging energy effects, analysis of vehicle and/or possibilities under vehicle activities. Subjects teams to assess vehicle-vehicle and vehicle and/or possibilities under vehicle activities. Subjects teams to assess vehicle-vehicle and vehicle and/or possibilities under vehicle activities. Subjects teams to assess vehicle-vehicle and vehicle and/or possibilities under vehicle activities. Subjects teams to assess vehicle-vehicle and vehicle process experiment findings.	
Sustainable business models	5	To acquire toorendege accut and understand the sublinitiate development economics paradigm, is origing and accuted or development, principles, methods, to be able critically be evaluate sublinitiate development progress.	Exercise introductionary toxologic of statistands development concept is acquired, main statistandbill protopolica in economics, ber impression methods and toxis is understood and the organizational practice akilit are shall in order to implement this understanding is practice, i.e. ortically adving (doed menormented and docid issues and choose social responsible economics methods for acting these issues.	1. Ouncept of circular economics are subattrable development 2. Subattrable development poly and SOD: 3. Individue development poly and SOD: 3. Individue development matching is subattrable economy business models 5. Concerned and any subattrable development progress 6. Evaluation of sustainable development progress 7. Orcular economic development methods, global iniciatives
Sustainable Water Management	6	To acquire knowledge of how to optimise water supply and waitewater disposit systems by applying the principles of sustainable construction, and to be able to carry out modeling of water supply and waterwater disposit systems, and of potential flood and simbles shadoos.	E provides inconledge on sublandate water management buchrupes, bitring into account the water commitphic holds of the subjects, the potential oversploated or lawlate and unastwater inscrints and account of the subjects. The potential oversploated or lawlate and unastwater inscrints and account of the subjects. The potential oversploated is the subject of the determines the optimum system, reference and subjects. The subject of the designed VSS dought aphrene on existing VSS systems and the possible impact on the future development of VISS methods. The module also	1. Sutainable Water Management; 2. Sutainable Water Management; 2. Sutainable water use in tubility; 2. Sutainable water use in tubility; 3. Auditist Automatical Control of the supply systems 5. Audysts and search on water losses in outdoor water supply systems 7. Comparison and user and optimation of water supply systems 7. Comparison and user and optimation of water supply systems 9. Audysts and search on water losses in outdoor water supply systems 9. Audysts and search on water losses in outdoor safet supply systems 9. Comparison and user and optimation of water supply systems 9. Research of the standard behaviori solution and supplements 9. Research of the standard behaviori solutions 10. Research and the standard behaviori solutions 12. Inflaming systems 12. Inflaming systems 13. Pool and food risk assessment 14. Polynying in patranticos situacije modelnavimas
Sustainable Fashion Technology	6	To previde toxeledge about of exo-clothing creation, environmental laws, to teach be understand conceptor of exo-design and sustainable development, possibilities of article recycling, to develop environmental theiring.	Crowledge provided about the principles of diversignment of ecological crititing and other fashion products, the accouncy of ring dudge, environments likes, product. It is gots and bagin tassessment, account of the second second for the test and criticing industry, statisticate test fast and cohing production processes, product genetics, waster tamagement aspects, recepting optimulies and to integrate and apply tomplete there failed and the second	Charling a sustainable fashion product conception, strategy stimulating forces 2. Maio project of avails end california generation conception of available 2. Maio project assessment of devices of an example of a strategy and a strate
Liban Theory	6	The aim of the module is to develop a complex understanding of a city as multilayered cultural phenomenon and sitebuce students to its contemporary theories, empirical models and practical blocks.	The module of Ultaan Theory will assist students in obtaining both theoretical knowledge and skills needed to properation of ultaan projects. The module will student with introduction to the contemporary advocement of the student of the student students and the student of the student student students with involvedge of the fundamentals of ultaan theories, empirically stated urban models, visions of development of ultaan forms and tendencies for the 21st century.	
Urban Planning 2	12	To develop skills to propare comprehensive and special plans and to design public spaces.	Shits to pages compositenties and special plane are developed. Students preparing compositencies or special plane of synthemism and project of bulk plane, underland the electronic balance local spaces and the brander contextual environment; analyze the lemitodul systems and the brander of textual environment from the students and the methodulary of an advectional planet about possibilities of antiropogenisation regulation by landscape architecture and utan planeting measures. Preparing the plane students use CIS analytical and mobility tool.	Regulation of anthrogenization by neares of indicates exhibiture and usina planning 1. Landrage anthropenic logicas and regulation of enthrogenization 12. Landrage anthropenic logicas and regulation of enthrogenization 12. Landrage exclusion classicas of public desceptions 13. Landrage exclusion classicas of public desceptions 14. Terms and the exclusion of the exclusio
Urban Environment Renewal and Territorial Development Management	3	To provide traveledge in the field of territorial development, while solving specific problems of unterrade territory energi planning and to develop the ability to evaluate technical documentation in indicas tables of completense, under environment energi processes, the quality of project proposal variants, digitization in this field.	Knowledge about urban environment assessment methods, normalive documents, analytical data processing and methods and possibilities of digitation of animized data a scupared. The problems of unavers digites of concession earliers with an exist and environment and a stratoduced interestication by or the components of substratable development, systems and methods of flerithood substratability assessment are understood.	The concept of urban environment, development and planning legislation. 2 State International planning policy, participants in the process. Provisions of the European Landscape Convention. 2 State International Planning Planing Pla
Management Systems and Sustainability	5	To obtain bookedge on quality management e-volution, classis and bath quality management, apply quality assurance methods, be able to evaluate quality, need for mindatory product cellification and choose methodology	reliability rate for quality costs. They are able to enables quality, choose quality control method and producent or difficulties of goods and services. They are able to pay on understanding of quality sessance methods and criteria of excellence models. They are able to pay's perihodiologies for quality problem aching and conduct self-sessances sociality unlikes of excellence models.	1. Guilty Management Fiel 1. Guilty Management Fiel 1. Bed Variable of subject management 1. Subject 1. Sub
Fruit and Vegetable Science and Technology	6	To obtain knowledge of innovative technologies for fruit and vegetable products, to improve quality and safety, and developing higher value-added products through sustainable production processes.	Kowskeg akon the mechanisms of biochemical and chemical dranges and the indical of drang and processing this are vigatilized, product multiclasting biochologies, and privilegie of the product development. Apply sustainable technologies to the recycling of bio-waste products.	1. Intoduction: Arms and calgedwer of drongs and processing of this and vegetable. 2. Southy and detention detections and the set of the set
Water Resources Engineering	6	To provide incomelege about the processes of water purification, waterwater treatment and water resources recovery, by develop while in selection of appropriate technological solution according principles of sustainable development.	Kowałogo of water purification, water conservation and subtratatio use principies, watewater distancieńskica and regimenti for watewater traintent, processa and capipanten usef for water purification and waterwater hatament is scipiust. The students will be able to analyze innovative technologies, te select e declines ethorological puest for the articipation, sealenest and studge heatment, process of tocchemical watewater teatment and principles of process control.	1. Traditional and adimentive sources of drinking water. Philogies of sublimitable water resources management. 2. Main technologies and explorent for replinitionary and periadry statestated treatment. 3. Processes and explorent for prelimitary and primary water publication. 3. Processes and explorent for prelimitary and primary water statestate treatment. 3. Constructional basicglical autointude treatment processes and bachnological control. 5. Constructional basicglical autointude treatment processes and bachnological control. 5. Constructional basicglical autointude treatment processes and bachnological control. 5. Constructional basicglical autointude treatment processes and bachnological control. 6. Availysis of substated statement treatment equipment, texted/on and application of technologies. 7. Watersteart Autoing and autointude autointude autointude. 10. Maintail and Autointude autointude. 11. Energy recovery from inductati and dometics: exatemeter. 11. Energy recovery from inductati and dometics.

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Wind Energetic	6	To give the functionential information about wind everygruing and wind power station building. To learn the projection of the datation parks with an ensuing second statistic. The specific arm to learn the solving the disconnected as island electrical power networks with wind statistic problem.	The student are length to understand the purpose and stochus of wind stations using, to calculate and stations characteristics, to steck with stationary types to calculate answard electricity, power fasts and Low August. Bio design projection of with stations connecting insteads, to solve power quality and electromagnetical compatibility problems.	1. The studie of and energetics 2. The studies of and energetic 2. The studies of and energetic 2. The production of an energy of the studies Production on tighting, 2. The production of an energy status and a calculation 3. The influence of electronic al anergy status and a calculation 3. The studies of energy status and a structure of electrolity instance 3. The studies of energy status and a structure of electrolity instance 3. The structure of electronic all anergy status and a structure of electrolity instance 3. The structure of electronic and elec
Corporate Social Responsibility	6	To gen knowledge of evolution of corporate social responsibility (CSR), main concepts, social responsibility standards and measures to improve performance. The specific aims are to introduce main aspects of social responsibility management system implementation and functioning.	The students are barget to understand the principles of corporate social responsibility, its evolution, modern concept and main turns. Lasen how to denify social partners and interested partners of the students of the students of corporate social responsibility management system tackards and expanding the students of corporate social responsibility management system tackards and legal acids. The dataset are supply to understand and implement expanses of GRM managements of GRM management system. The student will gain the general knowledge of diver, closely related occupational health and selety, quality and integrated management systems.	1. Central introduction to concept corporate social responsibility 2. Thorefers of rocal responsibility 3. Thorefers of rocal responsibility 4. Buildness effects. Social humanses 4. Buildness effects. Social responsibility metagenet system implementation 6. Model of costal responsibility metagenet system implementation 7. Costanding the effectives of cost responsibility. Responsibility 8. Respires. Improvement actions and preparation of reports 8. Buildness. Sustainability and Responsibility Index.
Public Sector and Business Effics	6	To protect knowledge and skills so toke thick groups and a social economic and environmental magnetis of individual environmental economic and economic protections and economic social economic in public and private sectors: giving consideration to successful and context of organizational activities and contributing to the UN Sustainable Development Coats.	Doring The course a student develops the alkTub assess activities of public and business assignation the safe of course of the alk course of the student and develop affective programmes of responsible institutional efficis.	1. Typólogy of eliho. Development of the concept of organizations social responsibility. 1. Typólogy of eliho. Chevilopment of the concept of organization social responsibility. 12. Public social responsibility of accountability of public sector organizations. 13. Development of mona competence development. Ethical decisions. 23. Altornation programmes. 23. More responsibility of acceleration of the sector organization social responsibility. 13. Teleful applement of mona competence development. Ethical decisions. 23. Altornation programmes. 23. More responsibility of acceleration of the sector organization social responsibility. 31. Ethical poblement of studies for functional less of management. 33. Ethical poblement of studies for functional less of denangement. 33. Ethical poblement of studies for functional less of denangement. 33. Ethical poblement of studies for functional less of denangement. 34. Bolic denangement conduct. 55. Development of model. 56. Development of model. 76. Double ethics and the sector of the sector organizations. 78. Double ethics and the sector of the sector organizations. 79. Double ethics and the sector of the sector organizations. 79. Double ethics and policy of graminations. 70. Double ethics and policy of graminations. 70. Double ethics and policy of polic and physice interests. 70. Double ethics and policy of grammatic sector of model. 70. Double ethics and policy of grammatic sector organizations. 70. Double ethics and policy of grammatic sector organizations. 70. Double ethics and policy of grammatic sector organizations. 70. Double ethics and policy of policy of policy and policy. 70. Double ethics and policy of grammatic sector organizations. 70. Double ethics and policy of policy and policy. 71. Double ethics and policy of policy and
Management of Phildle Finance and Budget	6	To provide nonvelege of public francat resources mesagement and bagying, to develop the ability to apply them adopting tablations in various political-cultural and successoremic contexts at various lavels of management.	Stadent han mataleant the basics of focal policy, methods of publics longinging and financial management, kill know len think of a spycificant various level of public longenines, comprefered in version analysis and resource allocation systems and sha the competence is analysis technologies.	1. The Nature of PARIE Frances and Theoretical Nature 1. The Nature Concern Termine Van Hinder PARIE 1. Input of Concepts of PARIE Administration on PARIE Francial Management 1.2. Input of Concepts of PARIE Administration on PARIE Francial Management 2. Roughtings of PARIE Administration Parie PARIE 2. Roughtings of PARIE Administration Parie Pa
Local Fuel Power Engineering	6	To provide shally to define and analyze the types of boat luets, constructions of fuel combustion technological equipment, the principles of their design and optimization.	The student are learning to understand the importance of local flue atflutation, are getting throwshops about the resources and abuarchinistics and one are provided. Endition uncellage about production, preparation, combustion process of local fact. A he earned to utilize the suitable for energy and the resource, the basic includings and the about the state of the antibility of the about provided. Are learned to solve environment pollution problems of local fuel utilization by choosing technical and combustion control means.	1 Characteristics of local fuel 1 1. Deadcoin of page. 12. Poddcoin of page. 13. Poddcoin of page. 13. Poddcoin of page. 13. Combustion beyor if local fuel 13. Combustion beyor and the set of local fuel 13. Combustion of page. 14. Deadcoin of page. 15. Softwarts 15.
Green Chemistry and Renewable Resources	6	To provide knowledge about may principles or green chemisty, environment knowly chemical processes and ullization of renewable resources in production of chemical industy.	Stades tell gel knowledge about gene chemistry principier, meneable energy and natural measures. They tell least to existile current chemical technologies and to design new green chemical technologies.	1. Principies of opera chemistry and that calculation 2. Catalysis, how and importance in the manufacture of chemical substances 3. Catalysis, how and importance in the manufacture of chemical substances 3. Catalysis, the substance substantian for device and chemical substances 4. Catalysis, the substantian of the substances 4. Catalysis, the substantian of the substanti
Circular Economy	5	To matter the characteristics of the occurar encourse, to be able to identify notifients in the occurate concorrency the occuracy include year disording the to assess the integration of the occurar encourse on the economic system and to analyze, evaluate and formulate strategies and measures to promote the circular economy.	Students all acquire accorate, and management houselogs back the incluse according implementation is company, inclusity and allocationary. Remote principal conjust models and operating conditions, circular business performance measurement and reporting. Students will be allo bases be impacted for locative according the exonomic system and to analyze, evaluate and formulae strategies and measures to promote the circular economy. Model addicatice, practical task, real cases tasked in stratement and reformation apprentitions presented by business representatives.	1. Substated evelopment palloy and SDSD. Crucial encomp used principles 2. Compare encomp where and editional inductional applications, cby and state levels that lead to substatelia dev 3. Cincular economy interactions development and value-added chain 5. Tax, francesi and an on-Annanial applications of the substatelia dev 4. Cincular business provides mean transmission and value-added chain 5. Tax, francesi and con-Annanial applications of the substate economy 7. The curryly fix a system and the currely application economy 7. The curryly fix a system and the currel economy 8. Conduct economy control function of homoly and economy 8. Conduct economy control function of homoly and economy 8. Conduct economy control function of homoly and economy 8. Conduct economy communication 9.
Circular Economy and Sustainable Use of Resources in Construction	6	To inform the basic principles of austancials development, the legal requirements for any termination of the basic principles of austancials development, the legal requirements for any termination of the structure account of the structure and Bill pripers, to develop competencies encoded to assess the invitamental impact of construction processes, products or services throughout their life cycle.	Lean b understand the economic nechanism of environmental grotection to perform economic economic economy environmental impagement are mainteed and the economic economy environmental programment and the economic economy environmental impagement are mainteed economy economic econom	1. Devlopment and basic principles of environmental economy. 2. Devlopment and basic principles of environmental economy. 3. Principles of the socialize economy in models. 3. Restantise environmental princip options. 3. Restantise environmental
Assessment of Circular Economy Impact	6	Acquite howelding of the value added the account economy and company, holdsyl, of plant country level, the week to provide and the account account covariance and the overgrander, marked for assessing the impact of the circuit economy at company, industy, ofly and country level; to develop systemic economic thinking and assessment akills.	This model deals will bicidiar eccentry at the company, industry and national level. The impact of the ondrare accounts convertigent through portfailbilling portfolio balancian balancian charac- industriary impacts and partnerships is subsystem. The circularly of the whole country and industry is assessed. The country is system, attificat industry, and and models balancian charac- sesses. The country is system, attificat industry, is assessed. The country is system, attificat industry is assessed. The country is any example of the system of the system of the system of the opportunities to promote the sincular eccountry are analyzed. Familianly with EU and national, regional francial and non-financial instruments.	C Conside Constraints and the intermediation of Sounds, Daving, Davin
Circular Economy Business Models	6	To get novelege about circular economy business model, stimilarges and functioning principles, be able to analyse news and closel-loop uppy of units. be able to apply product life cycle assessment and circular business performance measurement.	The module will help to work in a team of a circular economy a company level. Students will get knowledge about the round accounty antegota the burness nodes, inclusions and operating conditions, will acquire skills and abilities to anitize revense and closed-loop supply chains, apply product life cycle assessment, circular business performance measurement.	1 Corporate sublimitatily and a character exercting C. Concret eccomy designed and business models 3. Revenue and closel-scop supply charis 4. Cincler tasign and could leg cycle assessment 5. Cincler tasign and could leg cycle assessment 6. Cincler tasign and could leg cycle assessment 6. Tark financial and non-financial reporting in cincular economy
Circular Design Project	6	Invoke transfording altoid circular design its methods and tools. Develop circular design altit and minded, which enables the development of products/services based on the circular economy model.	Sudent surgius comprehensive understunding and conclut decays, its methods and study. Develop conclut decay shift, solit, solit, methods and system histings. Develop beat by decay product, services and systems, based on the course exclosiony model and the histigation of these (intervitions: Pacyle Ruwel, and PATE. Brocurse address as decign challengs. The design process is undeprinted by design linking methodology.	

Human Resource Analytics	5	Ta acquire the trookdep of Human resource analytics, be together specified allow events of the spectrum manamersecura and non-manamer analysis and specification and the data driven decisions shiving for human and organization sustainability.	SPSS and Microsoft Excel Power Privet bods are used.	1. The concept of human resource analytics 1. The observation memory and the manupement 2. The instruction and interpretation of metrics 2. A Desire for them are source analytics 2. The observation memory and the memory of the manupement metrics 2. A Desire for them are source analytics 3. Information and interpretation of metrics 2. Consolution and interpretation of metrics 3. Consolution and interpretation of metrics 4. Employee endowed and analysis 4. Employee endowed and analysis 5. The consolution and interpretation of metrics 5. The consolution and interpretation of metrics 3. The metric (CO) 3. The metric (CO) 3. The metric (CO) 3. The observation and interpretation of metrics 3. The observation and interpret
Fisheries Science and Technology		To provide torowedge of moveline technologue, for proceeding followy rate materials and by-products, the 5 develop the skills to break new, competitive products, ensuing product safety, quality and sustainability in all technological processes.	as well as food additives used in production of fishery products, their functional and technological properties is acquired. The innovative processing technologies of fishery products and the fishery by- products processing technologies are infraduced. The students will be able to select technologies for	Propuétios of inverteibulos institus avoir autoins plotta Processing bechnology of mainte inventeixates Rocessing bechnology of mainte plotta Rocessing processes in therbinologies of filter products Rocessing processes in therbinologies of filter products Rocessing processes in therbinologies of filter products Rocessing performation

Study modules for PHD degree programmes

Mana	Credits	Parata	Basadatas	Chapters and topics
Name Sustainable Energy	6	Pepole Povide sound troomledge on sublimitier energy efforts of the sound troomledge on sublimitier to the excitical energy system as well as ecological, economic and social sepects of their development.	Description Descri	1. Citada Index of anergy preduction and communications of operation 2. Citada Index of anergy including and communication 3. Riso of menadale energy in climate charge provertion 4. Sets System 5. Bonsts. Student 6. Energy ecconnegy in hiddings 8. Energy account of the set
Environmental Management	9	Development of knowledge on the topic of environmential management invicting systems and methods, development is understrating. Two is should like topic management and integrate environmential and quality management. Specific goals: development of skills have to organize environmential such and implement preventive environmental management.	The student are body to understand the principles of unabated environmental angument, producing the abilities tagging different excession excession and unders. Also the more company environmental angument spycerim soft company are and the student of the student of environmental angument systems 50 (140) and CMM set assimilated. The basic tradedege environmental angument systems are unable and CMM set assimilated environmental angument systems are unable and CMM set assimilated environmental management systems in company are formed.	1. The provide of instability development anargement 2. The providem of instances management 3. The development instances management 4. Use cycle management 5. Environment in management 6. Environment 6. Environ
Environmental Sociology	6	To ortically assess frontier hererotical approaches and empirical enderece concentral ple be ecological departicitor of contemportunicions of global environmential ango, to be able to scientifically rigorously discuss the possible decisions to solve environmential problems.	The student is able to anytine, criticity draces and practically graph the bath Theoretical approaches on the causes and produce scarshing of conjugation calls, ecological memorem. The pranding of sustainable development, the Anthropocene concept, environmental attitudes and behavior.	1. Key preventives and Developments in Environmental Sociology 2. Social Construction Chromonetal Issues and Prilations 3. Environmental Discourses. Media and Environmental Communication 4. Ra Construction 5. Saturinable Development Pransfigm and Social Transformations 6. Environmental Behaviour and Explanatory Modes
Advanced Inorganic Chemistry and Technology	9	To acquire the advanced incovedge about bethnological achievements and theory in the field of demisity and technology of inorganic materials.	Aquite in exploring loads about the application of morganic metantisks for energy strongs and conversion, development tends of hydrogen exposition of an additional conversion. A help to be evaluate the schrological feature of complex fieldings producing, plane of analysis and planes and the beam of the schroleging and a complex effects and the beam of the schroleging and a complex effects and the beam of the schroleging and an additional explores and the beam of the schroleging metantisks process lines.	1. logarist materials for energy starger and convention. 2. Cathon development trends at development endors at development endors. 3. Cathon development trends at development endors. 4. Substance/participation and product and at data/fer methods. 4. Substance/participation development endors. 4. Development endors and endors. 4. Development endors.
Chemicals Risk Management	6	To provide a systemic understanding about fink is natural or antihingogenic environment and to human health, caused by chemical subtances, and about rink assessment and management.	The knowledge is sequed on hazardox properties of demicral, on nick cased to various environmental composition (seller, intervisitio case) in Ale and on-Space, and risk to consume due to demicral in products. Working groups of demicral sublatances are covered, which are of intervisit when developing land products. Different data sessent methodologies are tabled. Film management possibilities - taget, managerial, technological - are analysed.	1. Nazorkog oppereise of chemical solutionses 2. Rok assessment projection and methodogies 3. Problematic chemical substances 4. Roks management ensuities and a solution
Fundamentals of Sustainable Design	6	To acquaint with possibilities and penularities of application of conception of austinable development in architectural design and spalled formation of environment and aspects of visual expression of austimative architecture.	Sudotte scale horozopi kovadogi abod općiatim d privnjeka el ustativlje energizmenti t diskotte scale horozopi kovadogi el povi povi povi povi povi stati stativlje kovadove i ustativlje stati stati obraživa i povi povi povi povi povi povi povi po	12. Conceptor of anatomicely development and fields of the speciation 13. Exclusion of agrossmall and exclusion of anatomicely and exclusion of anatomicely anatomicely and thered a referes of environmental formation 13. Conceptor of suitabilities and environmental formation 14. Appends of inclusion exclusions and exclusions 14. Security of the anatomicely and exclusions of the anatomicely anatomicely and exclusions 15. Security of agrossmall and exclusions 15. Provide of suitabilities and exclusions 17. Praining possibilities of suitabilities and information 18. Visual angregation of auxiliantide information 18. Visual angregation of auxiliantide information 19. Visual angregation of auxiliantide antihiculare 19. Visual angregation and enditorial of optical divisionable antihiculare 11. Realism of optics of suitabilities and microarce of auxiliantide antihiculare 11. Realism of optics of suitabilities and microarce of auxiliantide antihiculare 13. Realism of optics of suitabilities and microarce of auxiliantide antihiculare 14. Realism of optics of suitabilities and microarce of auxiliantide antihiculare 15. Realism of optics of suitabilities and microarce of auxiliantide antihiculare 16. Realism of optics of suitabilities and microarce of auxiliantide antihiculare 16. Realism of optics of suitabilities and microarce of auxiliantide antihiculare 16. Realism of optics of suitabilities and microarce of auxiliantide antihiculare 16. Realism of optics of suitabilities and microarce of auxiliantide antihiculare 17. Realism of optics of suitabilities and microarce of auxiliantide antihiculare 18. Realism of optics of suitabilities and microarce of auxiliantide antihiculare 19. Realism of optics of suitabilities and microarce of auxiliantide antihiculare 19. Realism of optics of suitabilities and microarce of auxiliantide antihiculare 19. Realism of optics of suitabilities and microarce of auxiliantide antihiculare 19. Realism of optics of suitabilities and microarce of auxiliantide antihiculare 19. Realism of optics
Sutlanuble Energy and Environment	9	None environmente publicen in energy instruction publices and methods of Distorting in Remma, nuclear, power technologies. Understand principles and methods of pohydron prevention in energy.	Coop basis of enhormership platetion in themate, horder and planer cheaptice. For explaned toxondep on global enhormership platetion and major technological means for bowering or environmental poliulion. Now principles of poliution prevention and are able to select perspective anvironmental poliution reduction measures in energietics.	1. Sustainable energy 1. 2. Perception of energy sustainability Hermonitous development of energy policy 1.2. Perception of attentive energy suscess application 2.3. Nuclear energy an sustainability related impact 2.3. Nuclear energy and environmental impact 2.4. Nuclear energy and environmental impact 2.5. Nuclear energy and environmental impact 2.6. Nuclear energy and environmental impact 2.6. Nuclear energy and environmental impact 2.6. Nuclear energy and environment 3.6. Nuclear energy and environment 3.6. Nuclear energy and environment 3.6. Nuclear energy and environment 4.6. Polumental products in the environment 4.7. Polument impacts in the environment 4.7. Polument impacts in the environment 4.8. Polument environment 4.8. Polument environment 4.4. Polument environment 4.5. Nuclear environment 4.6. Polument environment 4.6. Polument 4.7.
Sustainable Development of Cities	6	Povide sound knowledge on problems in cities and on implementing of principles of auxiliarable development, and using holistic approach to find effective and austanable solutions	Study module is devoled to from holistic approach to processes occurring in celles broaden abilities to analyze them, be vehaule and to propose sustainable solutions. The students are thought to understants social, incommantial, economicipations of cales, the devolvement, modern conception, challenges and opportunities. The students laws to understand principies of energy artificiency, ennealing encounces using, socially responsible business, sustainable consumption, sustainable life style.	1. Cles development history, principles of celles/settlements establishments 2. Environmenti, social and economical problems of cles, concepts of ustathable cities and settlements 3. Materials and energy flows of region, possible ways to cycle them 5. Satisfatting - concentration stathable cities so solve them 6. Satisfatting of the concentration of system of the solve them 7. Satisfatting - concentration - product for concentration and possibilities solve them 7. Satisfatting - concentration - product concision of sustainable cities 7. Satisfatting - concentration - product concision of sustainable cities 7. The Circuit Cley, Clearet a Sotiannable Uban Ecologitem
Sustainable Industrial Development	9	To gate howed up in sex of existingly dependent of the spectra of the exploration of this strategy for endingencement grounds, environment and social aspects and the application of this strategy for sustainable industrial development	The schedule are bugget to understand the concept of notatisate the development and concept of schedule shares the conceptor on industrial the development and concept of schedule that are provided. Ability have to generate, assess and implement preventive increations in developed. The schedule togened in the schedule are the development research comprising social, economic, environmental and policial aspects is provided.	1. Submitted centerporter and Gatamistic consumption transpirat 2. Bacharion of submitted consumption with transpirat 2. Bacharion destantiation consumption with transpirat 3. Bacharia exclusions and their postalication and resources efficiency 3. Solution and methicing that and their impact to country's competitive ability 5. SD Indication and their postalications for the evaluation of presence-back of different sectors of economy 7. Submitted involvement inseasci. 7. Submitted involvement inseasci. 7. Submitted involvement inseasci. 7. Submitted involvement inseasci. 8. Solution and methics in submitted involvement and implementation 7. Submitted involvement inseasci. 8. Submitted involvement instasci. 8. Submitted involvement instasci. 8
Management of Sustainability Accounting	6	define problems, generate ideas, developing new approaches and skills for creating sustainable business models and improvement of business ethics and corporate responsibility.	During the module capabilities in adapting insteadings, stills and one expensable to read- adaptanties existing and or instrinticings: consortium and soci-duration submittability will be developed. The studies will be based on systems approach impairing any adapting analysis and systems: instruments and the studies and the studies and the critical instruments of society. The emphasis is on piblical searchers within the context of local communities and simultaneous modifications based on sustainability economics.	1. Entrophen and Innovation 2. Denkings and an event in the second seco
Celer Chemistry	9	To proteis finaledge about meder concepts of colour of organity metric compounds, nomechanitare and disastication, consistentiates in the initial initial concepts of particular and execution of the second second second second second second second second exected on the second	The ocure gives a fundamental understanding of quantum deministic methods for the basic concepts of oclean and provide subset of methods and classification of domains, contration in the subset of	1. Colorants Charakterian of coloramis 1. Colorants (1) uptit and discuss 1. Uptit and discuss 1. Section of dyne 1. Recent colorant of dyne 2. Recent colorant of dyne 2. Departed colorations between the chemical structures and their colora 2. Departed colorations between the chemical structures and their colora 2. Departed colorations between the chemical structures and their colour brightness and resistance 2. Departed colorations 2. Departed colorations 3. Colorations between the chemical structures and their colour brightness and resistance 3. Colorations between the chemical structures of dynes 3. Colorations 3. Departments 3. Departments 4. Matching dynes 4. Matching dynes 4. Matching dynes 4. Allowing dyne
Product Ecodesign	6	Deliving via forwindige on file-cycle assessment/management and eco-design, develop skills on concept mentioner above and principles of implementation in indusity, and/yee real cases of implementation.	Le dy dynamizgramet and Dargin for hivingness based bins any a initially or any Juliced bins an extenderating of the destructions of a second discretion of the destruction of the materials be destruction and processing b here product destructions are destructed on the materials and destruction and processing b here productions are destructed on the materials be destructed on the destruction of the materials be destructed on the destruction of the destruction of the materials be destructed on the destruction of the des	1. Environment (crosses) based or product III-eyde assammed 2. Devironmental impack assammed 3. Development of products and school and qualitative environmental impack assessment 3. Development of products and school and and qualitative environmental impack 5. Case of except environmental development 5. Case of except environment 5. Case of except environmental developme
Inovations and Global Knowledge Economy	6	To develop innovation management competencies white systemically assessing global knowledge acromy context, and modeling national, industrial and organizational impact mechanisms.	Contemporal monation environment (the concepts and types of innovation, modern principies of managing) the RS. down to involve entreprises, involved on management in the histochory societor, organization cafus and organizational elements, involved on management in the the organizations, use in a societory of the society of the soci	1. Cobal RM2 and Introduction management methodology 2. Cobas RM2 and Introduction graphics 2. Cobas RM2 development of deartherability 2. Cobas RM2 development of deartherability 2. Cobas RM2 development 2. Cobas 2. Co
Theory and Applications of Catalytic Processes	6	To acquire in-depth theoretical knowledge and analytical stills in order to evaluate and develop cathylic processes.	Anguistion of indept honologing and/unit in teacy, devolvement and application of stability independent and exact and protected or gamma and and an exact and applications of the stability technologies, catalogi productions and characterization methods. Practical skills to analyze and assess cataloffic processes from a techno-economic point of view.	1 Tradia the development of statisfic properties and latitive economic evaluation: 2 Social control and the second secon

Cultural Ecology	6	To gain knowledge on the aims, tends, problems, and systems of value of cultural ecology, on the human interaction with the environment and other humans.	Students are bught to understand the same of Cultural Ecology, habitical, social, georgaphical and other foundation of cultural values, contradiction for domic nulture and them, the sense of the human relation with environment, the issues and tenderoise of contemporary avail-garde culture.	 The coccept of cultural ecology. Development of the discipline of cultural ecology There of orbanit accepts, orbanic accepts, orbanic accepts and the accepts of the accept of the accept
Research Ethics	1	having composited the module, and advance will be able to collectly assess the principles and procedures of elevation disks, significant the initial section data and a significant data and the descents disks, significant data and substitution development.	In this module, the students will earn to analyze and critically assess research (ins)conduct from an ethical perspective and write an application with their own research proposal for an ethics approval.	1 Solved and coding their default and temportabilities is band have for concepts. 2 Solved and textures due to hypothast to example the special or temportabilities. 3 Research which meangement tool in organizations. Filling in easesch proposal for sreasch ethos, conmittee 4. Typothaf them direvent microsolule. Taking and conceptions. 3 Research admonstrational research and conceptions. Confinition of interest. 5 Research admonstrational research and conceptions. 2 Research admonstrational research and conceptions. 3 Research admonstrational research admonstrational research admonstration. 3 Research admonstrational research admonstrational research admonstrational research admonstration. 3 Research admonstrational research admonstrationad research admonstrationad research admo
Energy Efficiency of Buildings	6	Ts understand unergy monotenes table griders in the buildings. In the two house to design the energy exclosions of buildings, enangements and exclosions constraintion of building envelopes and energy systems, is trong principles of enresable energy usage in buildings.	Onlabel downlog stad onergy processes taking gives in the Juddings. The orientages and energy systems involves the bally to evaluate the implement onergy sources on policy gives regularized to any anyone the efficiency and consistency of building energy consuming and producing systems and applying modern design, evaluation and research methods for energy efficiency of buildings.	1 Cotopol of energy efficiency of buildings and indicative description persogn performance 2 The sociopol of energy efficiency of buildings and indicative description of energy deficiency of building 3 Methods of acaultation of tasket the classes through building revelope 4 Reveloped of the social acaultation of the social acaultation of the efficiency of building 4 Reveloped of the social acaultation of the social acaultation of the efficiency of building 4 Reveloped of the social acaultation of the social acaultation of the efficiency of building 4 Reveloped of the social acaultation of the social acaultation of the social acaultation of the efficiency of building 4 Reveloped of the social acaultation acaultation of the social acaultation of the social acaultation of the social acaultation of the social acaultation acaultation of the social acaultation of the s
Sustainability Assessment of Buildings and Construction	3	To device a deep understanding of status-off-ex en methodologies for subtrahility assessment in normatication, competencies exercisery to perform building project environmental evaluation based on well established techniques and methods.	Nexadaps, habitings and costhuctions are evaluated of only based on technical and economic criteria bud also by the und which the tele bus estantishing beginnence of constructions. Methodologies and a standardization harmeork are learned, which are now veddy usat. The students and to also the budy involves of the standardization standardization and the standardization and and constructions, including the environmental toophist analysis and the life cycle assessment? Unalign and constructions, including the environmental toophist analysis and the life cycle assessment.	
Advanced Water Treatment Technologies	6	To provide consistent inclusivity and the fundamentation of development of water treatment behandpages. To understand the principles of technological equipment application and technical design.	To acquire toxeledge about wells containing enrows technologies and these technologies development technologies, which is with a same countil work of the development technologie acquirent accoramy. Also, they states systemical toxeledge about analysis discributoguid exignment accoramy. Also, they states systemical toxeledge about analysis discributoguid exignment accoramy. Also, they states systemical toxeledge about analysis discributoguid exignment accoramy. Also, they states systemical toxeledge about analysis discributoguid exignment accoration interactificant according to the systemic according to the systemic bagenic elements monoid, to use workou calculation principles for technological evaluation of heatment fusities, to apply the samitary and ecological evaluation of wastewater distribution.	1. Preparadies of water treatment technologies in the face of cummer and future challenges. 2. Limitation of stational water treatment methods. 3. Advanced Stopping and treatment methods. 4. Advanced Stopping and treatment methods. 4. Advanced Stopping and treatment methods. 6. Approaches for selection of an appropriate water treatment technology. 7. Statisnicality supecia in water and wastewater treatment technologies.
Technologies of Utilization of Plastics	6	To give the knowledge on the methods of plastics utilization; to give the information on the technologies and devices of plastics utilization.	The students get knowledge on the environmental and economic impostance of plastica utilization, identification and sorting methods, physical chemical, and themat utilization, compatibility and resublication of plastica. The companying of plastical plastical is induced. The sublemit get knowledge on the structure and basic principles of devices used in plastics utilization technologies.	Ecological and economical importance of plantica utilization Zi bentification and vorting methods of plantica Comparisolity and variabilities of plantica Somerical utilization of plantica Somerical utilization of plantica Compositing of variabilities Zi compositing of variabilities Zi compositing of plantica utilization Somerical utilization of plantica utilization Somerical utilization of plantica Somerical utilization
Adhesion of Polymers	6	To choose the resolutions of polymer adhesion bood formation in order to develop adhesive systems resistant to various aggressive agents and to extend their application fields.		POLVINE (Planting (Justiciana) I. Advectory Planting and disabulance of devices tooring I. Advectory Planting and disabulance of devices tooring I. Advectory Planting I. Advectory Planting Zi Market and the analysis Justician method of durlaw analysis Justicians method of durlaw print Justicians method print Justic
Modern Environmental Protection Technologies	6	Enhance systemic understanding of technical solutions of environmental problems. Gain trovledge on the development tends of environmental technologies.	Palulica of hysicsphere and its protection. Hysiosphere protections against patients: Wate water quantity and composite Montosi of water water and dudge treatment. Natural resources and energy saving. Clobal environmental protection problems.	1. Waske water qualitative characteristics 2. Privacy associates teatment 3. Secondry associates tradement 3. Secondry associates tradement 3. Secondry associates tradement 5. Teatment methods of genous pollutaria 7. Qualitative composition of waste 8. Chemical and biological wate treatment 8. Chemical and biological water teatment 1. Dement audit associatement 11. Socien saturative teatment 11. Socien saturative teatment 12. Johanny of and/or saturative 13. Socien saturative 14. Socien saturative 13. Socien saturative 14. Socien saturative 14. Socients 15. Socient
Contemporary Architectural Theory	6	To provide doctorel discretise with thereaded is loading of contenty only another load theores to develop the ability comparison that the content of contemporary another and used environment while samp diverse theores and methodologies of authorization analysis. Is thereare the development of contemporary anotherais as a provide on the authorization analysis is thereare environment of contemporary anotherais as a context of contract the same table environment of contemporary anotherais as a provide on the authorization of anotherais the environment of contemporary anotherais as a complex of processes and deas.	The course with its bacocapitalize the processes of the contemporary state environment and environment the state of the state of the contemporary state environment and environment and the state of the diversity in the context of urban environment.	The eld of architecture discusses to contemporary society A cohercleve as a form of social communications means, separaterially, visual identity, A cohercleve as form of social communications means are completely A cohercleve as instrument of power: In-thermost installing and demonstrate pole A cohercleve as instrument of power in-thermost installing and demonstrate pole Boyala affects of polarizations of a cohercleve hard weak of the Boyala affects of polarizations of a cohercleve hard weak B. Cohercleve instruments of a cohercleve hard means B. Cohercleve instruments of a cohercle hard means B. Cohercleve instruments of a cohercleve hard means B. Cohercleve instruments of a cohercle hard means B. Cohercleve instruments of a cohercle hard means B. Cohercleve instruments of a cohercleve hard means B. Cohercleve instruments of a cohercle hard means B. Cohercleve instruments of a cohercleve hard means B. Cohercleve instruments of a cohercle hard means B. Cohercleve instruments of a cohercleve hard mean means B. Cohercleve instruments of a cohercleve hard means B. Cohercleve instrument
Contemporary Management Theories and Concepts	9	To coate a spatien of thindeneous in knowledge in the field of management that would evalue the factor and whether the methodologies of nanogement and to ery on them in constructing their discloral research.	Society devices all graphy channels and another than the company theories company and expendent in increase. The main explanation is notified of advances were advanced to the original work of the most balanced reservcine. Effort of instang together different approaches and their evaluation from the perspective of knowledge society will be emphasised.	1 Isbudictor bit graneratory analysisent Isbolies and concepts 13 Isbolicitors bit research design and case tady relified 13 Isbolicitors bit research design and case tady relified 13 Isbolicitors bit research design and case tady relified 13 Isbolicitors bit research design and case tady relified 13 Isbolicitors bit research design and case tady relified 13 Isbolicitors bit research design and case tady relified 14 Isbolicitors bit relified tady relified 13 Isbolicitors bit relified tady relified 14 Isbolicitors bit relified tady relified 13 Isbolicitors bit relified tady relified 14 Optimization and attention-based views 13 Optimization and relified tady relified 13 Optimization and relified tady relified 14 Optimization and relified tady relified 14 Optimization and relified tady relified 15 Optimization and relified tady reli

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1		To make synthesis of energetics and work machines cycles, to make algorithms and optimize the	Learning on the basis of of knowledge from the course before to make synthesis of energetics and	1. Common laws of thermodynamic
1		conditions of work of such thermodynamics models. To create the models for the gas systems and		1.1. Energy (forms), work (forms), heat (modes). Analytical expressions
		model them		1.2. First law of thermodynamic, an application for investigation of thermodynamic processes
				1,3. Entropy, characteristics. Il law of thermodynamic, capabilities for analysis of energy degradation processes
				 Work bodies - the subjects of thermodynamic systems. Thermal, energetics and kinetic characteristics
			the received results to use for ecology environments creation.	2,1. Ideal gas, half ideal gas, mixtures form them, processes
				2.2. Real gas, real gases mixtures. Real multiphase work body (in gas, liquid, solid and plazma condition).
				2.3. Wet gas: characteristics, conditions, processes,
				2.4. Solutions and reactive gas mixtures. Thermal, enerbetic and kinetic characteristics.
				3. An experimental basics of thermodynamic.
				3.1. Methods for thermal characteristics of work bodies estimation
				3.2. Methods for energy and calorific characteristics estimation
				3.3. Methods for work bodies kinetic characteristics (thermal and diffusive conduction, viscosity) estimation
				Thermodynamic mathematical model and an efficiancy methods of energy transformation
				4.1. Thermodynamic cycles and characteristics function method, chemical potencial and main differential equations
				4.2. The efficiency of energy transformation:energetic and eksergic
				5. Combustion processes thermodynamic
				5,1. The balances of the fuel combustion materials
				5.2. Thermochemistry and regularities
				5,3. If thermodynamic law application for analysis of combustion processes
				Equilibrium of phases and chemical complexes of thermodynamic systems
				6,1. Phases equilibrium. Transformations of pure substance phases.
				6.2. Transformations of soliution phases.
				6.3. Description of equilibrium of chemical gas mixtures. Experimental and analytical estimation of the constant part of equi
Thermodynamics	9			6.4. Thermal disocciation. Mathematical model and tune composition.
				7. Stationary and transient flow processes
				7.1. Elastic liquid flooding regularities
				7.2. Gas and steam choke.
				7.3. Processes of flow michines
				7.5. Processes of now iniciales. 7.4. Irreversible processes of compressor and turbine work. Losses of irreversibility.
				8. Analysis and synthesis of thermodynamic cycles
				8.1. Cycles with gas work body
				8.2. Cycles of thermal power plants, taking to account steam-gas, MHDG and fuel cells cycles
				8.3. Energy transformation cycles. The questions of materials cooling and gas liquefication. Problem of thermal pums.
				9. Thermodynamic cycles processes modelling, algorithms and optimisation
				9.1. Physical cycle machine model creation, algorithms and programming
				9.2. Cycle machine model optimisation and new cycles synthesis
				10. Basics of irreversible processes of thermodynamic
				10.1. Non compensate work, entropy growing, entropy flow
				10.2. Laws of Onzageri
				10.3. Thermaldiffusion phenomenon
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Study modules for Professional studies

Name	Credits	Purpose	Description	Chapters and topics
General and Special Pedagopy	6	To provide konsiletige of modern adducting science that will help define the relationship between traditional prologong much adducting. Develop the addity is droose traditional and involution methods of phones and inclusive extraction.		1. The Strangel adjunction of tradination development [530]. E. Excitional goals and competitions 1. The competition development (530). E. Excitional goals and competitions 1. Strangel and adjunction of the statest 1. Strangel and strangel goals and the statest 1. Strangel adjunction of the statest 2. Adjunction of adjunction of the statest 2. Adjunction of adjunction of the space adjunction of the statest adjunction of the statest 2. Adjunction of adjunction of the space adjunction of the space adjunction of the statest a
Course teaching Methodics 1	3	and concepts of subject science, to from relevant information and knowledge relevant to the practice of subject tracking, the schedule science and splip instance and a solve tracking methods, to a date to camy out his if her performance improvement meters his tracking the subject according to general education programs, applying the acquired knowledge in the study of pedagotal improvement.	subject exclusion process: he able of differentiale and personalize activities, laking into account the operation curriculars and proceedings and apply compared processing the area of methodology, is able to evaluate and evaluate his / her activity, to reflect on the experision pained.	2. Sajed cancium, sajed atexant ferming and a strain of the sajed atexant for a sajed atexant for a sajed reacting method of taxativity are sajed, ther splication 3. Imposition of a sajed reactivity and the sajed atexant for a sajed atexant for a sajed reactivity and the sajed reactivity and the sajed atexant for the sajed reactivity and the
Course teaching Methodics 2	3	Knowledge of latenting methodogo parking is a de to poly the polycalarities of methodogo y parkins, meanser, skale placet, and de handholdogo profermance improvement search, a ade to bag differentiate and include at admises in lessons, is a de to apply the principles of sustainable development administration in the subject lessons.		1. Michology of research on pulsapping removement 2. Differentiating and indexidence (Exaction Lessons. 3. Differentiating and indexidence (and its testion). 3. Differentiating and indexidence (and its testion). 3. Differentiating and testion and testion 4. Exaction (Constraint), and the second of the second
Practice of Curriculum Planning and Its Realization	3	To acquire the knowledge on the construction of curricult, to understand the importance of curriculars in the current of institution regulatory and construpnuy-exclusional source, understand the concept of curriculum, to be able to analyse and assess, create and reflect curricula of different levels considering modern inquirements and the change of education paradigms.	Statest gas equaleted with the spectree and hearies of annulas construction, programmer situation, projects, contert and intermetation processings and there and applicable construction, abused the spectra of competences being developed and expected results. Students learn to construct, analyses and assess different type programmers.	1 Principle di arriculari fieldegimente generati d'arriculari 2 aduatti di arritura di arritorizza di arritori di arr