



Munzur University
Tunceli Vocational School Electricity Pr.

2018/2019 Academic Year
List of courses

Code/Credits	Course	Semester Winter / Spring	Contents	Contact Details of Lecturer	Department
MAT 153/4	MATHEMATIC I	Winter	Numbers and number sets, decimal numbers, exponential and rooted numbers, identities and multipliers, absolute value, simple inequalities, ratio-ratio, problems, operation and modular arithmetic, functions.	Name-Surname: Murat Korunur E-mail: mkorunur@m unzur.edu.tr Tel:+9042821 31794	Electricity and Energy
TTE 123/5	ELECTRICITY AND ELECTRONIC MEASUREMENTS	Winter	Measurement methods and equipment, D.C. measurement techniques, A.C. measurement techniques, power and work measurement techniques, measurement of circuit elements and parameters, industrial measurement techniques.	Name-Surname: Sibel Korunur E-mail: skorunur@mu nzur.edu.tr Tel:+9042821 31794	Electricity and Energy
TTE121/4	INFORMATICS AND COMMUNICATION TECHNOLOGIES	Winter	Basic terms and concepts, Windows, keyboard, computer systems, Microsoft office applications, Basic terms and concepts, Windows, keyboard, computer systems, Microsoft office applications.	Name-Surname: Sibel Korunur E-mail: skorunur@mu nzur.edu.tr Tel:+9042821 31794	Electricity and Energy
TTE103/5	COMPUTER AIDED DESIGN	Winter	Electrical, electronic circuit design related to the introduction of package programs, circuit diagram design, circuit analysis and control operations, drawing and simulating the design of designs.	Name-Surname: Ali Kemal Aslan E-mail: akaslan@mun zur.edu.tr Tel:+9042821 31794	Electricity and Energy
GTİ101/2	GENERAL AND TECHNICAL	Spring	Concept of communication and its meaning.	Name-Surname:	Electricity and

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	COMMUNICATION		Communication process. Types of communication, Barriers of communication, Technical communication. Technology concept, information and communication. Developments in communication technologies.	Sibel Korunur E-mail: skorunur@munzur.edu.tr Tel:+9042821 31794	Energy
MAT154/5	MATHEMATIC-II	Spring	Second order equations, inequalities, parabola, complex numbers, trigonometry, matrices and systems of linear equations. limit and continuity of functions, derivative, integral.	Name- Surname: Murat Korunur E-mail: mkorunur@munzur.edu.tr Tel:+9042821 31794	Electricity and Energy
TTE102/4	DIRECT CURRENT CIRCUIT ANALYSIS	Spring	Basic concepts of electricity, dc current and voltage sources, properties of RLC elements, series, parallel, complex circuit solutions, star - triangular transformation, environmental currents, node voltages methods, Thevenin and Norton theorem, circuit solutions with superposition method, power and energy in electrical circuits calculations, magnetic elements and magnetic fields.	Name- Surname: Furkan Esmeray E-mail: furkanesmeray@munzur.edu.tr Tel:+9042821 31794	Electricity and Energy
TTE105/5	ANALOG ELECTRONICS	Spring	P-N joint structure, operation, semiconductor materials, operation of diodes, zener diodes, tunel and photo diodes, diode applications, BJTs, FET transistors, transistor calculations and applications	Name- Surname: Furkan Esmeray E-mail: furkanesmeray@munzur.edu.tr Tel:+9042821 31794	Electricity and Energy



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TTE106	ELECTROMAGNETIC FIELDS	Spring	Vector Analysis, Coulomb Force and Electric Field Intensity, Electric Flux and Gauss's Law, Electrostatic Field Theorem, Electrostatic Field Work, Energy and Potential, Conductors, Current, Current Density, Capacity and Dielectric Materials, Ampere Law and Magnetic Field, Magnetic Field Forces and Torques, Inductance and Magnetic Circuits	Name-Surname: Murat Korunur E-mail: mkorunur@m unzur.edu.tr Tel:+9042821 31794	Electricity and Energy
TTE124/4	ELECTRONIC CIRCUIT DESIGN	Spring	Introduction of simulation programs to be used, Structure of semiconductor diode, working principle, diode equivalent circuits, forward and reverse direction characteristics, Zener diode, led, schottky diode, PIN diode, varicose diode, tunnel diode structures and working principles, BJT working principle, upgrade process and connection types, input and output characteristics according to connection types, Soldering iron and solder characteristics, soldering pump, soldering techniques, Full wave, half wave, bridge type rectifier circuits, clamping circuits, Various Electronic Circuit Applications.	Name-Surname: Barış Karataş E-mail: bariskaratas@ munzur.edu.tr Tel:+9042821 31794	Electricity and Energy
TTE216/3	ELECTROMECHANICAL CONTROL SYSTEMS	Winter	Control input and output elements, time and protection relays, various starting and control circuits of electric motors.	Name-Surname: Barış Karataş E-mail: bariskaratas@ munzur.edu.tr Tel:+9042821	Electricity and Energy

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TTE202/3	DIGITAL ELECTRONICS	Winter	Digital Concepts, decimal, binary, and hexadecimal number bases, logic circuits (and, or, notnand, nor etc.), boolean algebra rules, boolean equation writing and logic circuit design, karnaught table and simplification, decoders, encoders, displays operation and the use of multiplexer, singularizer and comparator, problem solving, and properties of TTL mos and cmos elements.	31794 Name-Surname: Barış Karataş E-mail: bariskaratas@munzur.edu.tr Tel:+9042821 31794	Electricity and Energy
TTE205/4	ALTERNATIVE CURRENT CIRCUIT ANALYSIS	Winter	Alternating current and voltage, phase relationship with L, C, R, and conversion from time domain to complex number system, A.C. the behavior of circuit elements, A.C. circuit theories and calculations, A.C. power and energy in circuits, three-phase A.C. systems.	Name-Surname: Furkan Esmeray E-mail: furkanesmeray@munzur.edu.tr Tel:+9042821 31794	Electricity and Energy
TTE211/3	ELECTRICAL MACHINES - I	Winter	D.C. structure and operation of electrical machines, Motor and generator operating modes, characteristics, Structure and operation of single and three phase transformers, related applications.	Name-Surname: Ali Kemal Aslan E-mail: akaslan@munzur.edu.tr Tel:+9042821 31794	Electricity and Energy
TTE205/4	SYSTEM ANALYSIS AND DESIGN	Winter	To make a preliminary preparation (feasibility), to create a project, to prepare a project file, to prepare the written, verbal and practical presentation.	Name-Surname: Barış Karataş E-mail: bariskaratas@munzur.edu.tr Tel:+9042821 31794	Electricity and Energy
TTE207/4	ELECTRICITY	Winter	Energy sources, types of	Name-	Electricity



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	POWER PLANTS		power plants, thermal power plants, steam and gas turbines, natural gas power plants, diesel power plants, nuclear power plants, hydraulic power plants, water turbines, wind and solar power plants. Parallel operation in power plants, active and reactive power adjustment, dam systems, switching elements, power transformers, Properties of electrical networks, interconnected system, properties of open, ring and mesh networks, calculation of line parameters, corona event, air line conductors, insulators, poles, voltage drop and conductor cross-section, underground cables.	Surname: Furkan Esmeray E-mail: furkanesmeray@munzur.edu.tr Tel:+9042821 31794	and Energy
TTE222/3	POWER ELECTRONICS	Winter	Thyristor Trigger circuits, Triac and Diac, Mosfets, One Phase Uncontrolled Rectifier Circuits, One Phase Controlled Rectifier Circuits, Half-wave rectifiers, Full-wave rectifiers, Three-Phase Uncontrolled Rectifier Circuits, Three-Phase Uncontrolled Rectifier Circuits, One-phase AC Choppers, Three phase AC choppers, Reducer and riser choppers, Power supply inverter.	Name- Surname: Furkan Esmeray E-mail: furkanesmeray@munzur.edu.tr Tel:+9042821 31794	Electricity and Energy
TTE231/2	ENTREPRENEURSHIP-I	Winter	Management and entrepreneurship, entrepreneurship in Turkey, Entrepreneurship success factors, Entrepreneurship in failure	Name- Surname: Murat Korunur E-mail: mkorunur@m	Electricity and Energy

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			causes, Facility Location and site selection, organization location and site selection, utilization and head başnokta analysis, objectives of management, are the responsibility of management, utilization and head başnokta analysis	munzur.edu.tr Tel:+9042821 31794	
TTE233/2	HOME DEVICES	Winter	Kitchen oven, cooker, mixer, iron, room Heater, air conditioner, aspirator, refrigerator, washing and dishwasher, vacuum cleaner, carpet washing machine, such as the working principles of household appliances, electric circuits, inspections, failures and maintenance operations.	Name- Surname: Barış Karataş E-mail: bariskaratas@ munzur.edu.tr Tel:+9042821 31794	Electricity and Energy
TTE235/2	JOB SECURITY AND HEALTH	Winter	Occupational accidents, occupational diseases, rules of law and social order, personal protective equipment, ergonomics, fire and fire protection, first aid.	Name- Surname: Barış Karataş E-mail: bariskaratas@ munzur.edu.tr Tel:+9042821 31794	Electricity and Energy
TTE221/3	WINDING TECHNIQUE	Winter	Conductive, soldering, insulating materials, properties of magnetic materials, recognition of winding devices, de current and universal motor windings, single-phase transformer winding, calculation of welding machine transformer, asynchronous motor windings, hand type, half mold, full formwork, two-layer winding diagrams and winding applications.	Name- Surname: Barış Karataş E-mail: bariskaratas@ munzur.edu.tr Tel:+9042821 31794	Electricity and Energy

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TTE201/3	CIRCUIT ANALYSIS	Winter	Circuit variables. Circuit elements. Kirchhoff's law. Simple resistive circuits. Node voltage analysis. Environmental current analysis. Thevenin-Norton equivalent circuits. Superposition. Largest power transmission. Inductance. Capacitance. Transient analysis.	Name-Surname: Barış Karataş E-mail: bariskaratas@munzur.edu.tr Tel:+9042821 31794	Electricity and Energy
TTE220/3	PROFESSIONAL FOREIGN LANGUAGE	Winter	Foreign language analysis in written, oral and practical areas in English correspondence, daily practical conversations, electricity related translations and many other areas in which they can use foreign language.	Name-Surname: Murat Korunur E-mail: mkorunur@munzur.edu.tr Tel:+9042821 31794	Electricity and Energy
TTE214/4	HIGH VOLTAGE TECHNIQUE	Spring	Security measures to be taken in high voltage lines, ice and wind load calculations, chain curve calculations, deflection calculations, distance between the poles, corona losses and calculations	Name-Surname: Barış Karataş E-mail: bariskaratas@munzur.edu.tr Tel:+9042821 31794	Electricity and Energy
TTE210/2	QUALITY ASSURANCE AND STANDARDS	Spring	Standardization, purpose, benefits, TSE, certification, quality, total quality systems, TS-EN-ISO 9000-9001-9004: 2000 standards, recognition of professional standards.	Name-Surname: Barış Karataş E-mail: bariskaratas@munzur.edu.tr Tel:+9042821 31794	Electricity and Energy
TTE205/4	ELECTRICAL INSTALLATION PLANS	Spring	Preparation of internal installation project specification, preparing a project draft, project drawing, file preparation, cost analysis of the project.	Name-Surname: Furkan Esmeray E-mail: furkanesmeray@munzur.edu.tr Tel:+9042821 31794	Electricity and Energy
TTE213/5	(PLC)	Spring	Control and control of	Name-	Electricity

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Barış Karataş

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	PROGRAMMABLE LOGIC CONTROL		electric motors, circuit-making with the help of programmable controller (PLC), circuit connection, operation, control, fault finding	Surname: Furkan Esmeray E-mail: furkanesmeray@munzur.edu.tr Tel: +9042821 31794	and Energy
TTE212/3	ALTERNATIVE ENERGY SOURCES	Spring	Solar energy, wind energy, geothermal energy, biogas, other alternative energy sources.	Name- Surname: Sibel Korunur E-mail: skorunur@munzur.edu.tr Tel: +9042821 31794	Electricity and Energy
TTE208/4	ELECTRIC MACHINERY -II	Spring	The structure, properties, working principles, motor equivalent circuits, starting, speed control. Motor and generator operating principles of synchronous machines of single-phase motors, starting of synchronous motors, load adjustment, phasor diagrams, parallel operation	Name- Surname: Ali Kemal Aslan E-mail: akaslan@munzur.edu.tr Tel: +9042821 31794	Electricity and Energy
TTE232/2	ENTREPRENEURSHIP P-II	Spring	Concepts Related to Entrepreneurship. The Importance and Development of Entrepreneurship. The Properties of Entrepreneurs. Business Functions. Entrepreneurship and Success in Entrepreneurship. SMEs and Common Characteristics. Problems and Solutions of Small Businesses comprehend the problems and solutions.	Name- Surname: Murat Korunur E-mail: mkorunur@munzur.edu.tr Tel: +9042821 31794	Electricity and Energy
TTE201/2	BUSINESS	Spring	Basic concepts of business.	Name-	Electricity

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	ADMINISTRATION		objectives of the enterprise and relations with the environment, classification of enterprises, establishment of enterprises, size and capacities of enterprises, selection of establishment location of enterprises, business management, business ethics.	Surname: Sibel Korunur E-mail: skorunur@munzur.edu.tr Tel:+9042821 31794	and Energy
TTE226/2	ENERGY MANAGEMENT	Spring	Turkey to the overall energy situation, the production and consumption of primary energy sources, structure of Turkish industry, energy consumption, energy management, measurement instruments and measurement techniques, increasing the boiler in energy efficiency, systems that use electrical energy, energy-saving lighting, the methods of economic analysis, environmental energy interaction, Renewable energy sources, Compound heat-power production systems.	Name-Surname: Sibel Korunur E-mail: skorunur@munzur.edu.tr Tel:+9042821 31794	Electricity and Energy
TTE234/4	SPECIAL DESIGNED ENGINES	Spring	Structure and operation of stepper motors, terms of stepper motors, types of stepper motors and starting methods, important parameters of stepper motors, stimulation of stepper motors, structure and operation of servo motors, types of servo motors and starting methods, asynchronous one-phase auxiliary Motors, Structure of universal motors, working principle, speed	Name-Surname: Ali Kemal Aslan E-mail: akaslan@munzur.edu.tr Tel:+9042821 31794	Electricity and Energy

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			adjustment, direction of rotation and application areas. Structure and operation of linear motors. Types of linear motors and starting methods. Structure and working methods of shadow-pole motors. Types of shadow-pole motors and starting methods.		
TTE236/4	SPECIAL INSTALLATION	Spring	Dangerous and comfortable working environments. Environments that do not give dangerous and comfortable working conditions. Agriculture, Livestock and Gardening Practices. Construction Site Temporary Facilities. Lightning Strike Protection of Buildings and Facilities. Cathodic Protection. Auto Electricity. Security Systems	Name-Surname: Barış Karataş E-mail: bariskaratas@munzur.edu.tr Tel:+904282131794	Electricity and Energy

20.../20... Academic Year
List of Traineeship Vacancy

Number of the Vacany	Credit (Number if its offered)	Contents	Contact Details of the Mentor	Department Academic or Administrative department
			Name-Surname: E-mail: Tel:	
			Name-Surname: E-mail: Tel:	

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