## **Munzur University**

## Vocational School of Tunceli, Department of Chemistry and Chemical Processes 2018/2019 Academic Year List of courses

Dr. Opr. Uye: Gülben TORGUT

	URELY ECOLOGY		subjects; Classification of ecology science and environmental factors; Climatic factors; Edaphic factor; Geographical and topographic factor; Pyrik factor; Biotic factor; Energy flow and substance cycles in ecosystems	esrabarim@munzur.edu.tr +905054467808	Chemical Processes/ Laboratory Technology Program	
LTP 209/2.5	THE AGRICULT URE MEDICINE AND ANALYSIS	Spring	importance and methods of agricultural struggle; The importance of agricultural drugs, classification; Usage areas of agricultural drugs; Propagation of agricultural drugs and measures to be taken; Agricultural drug poisoning and first aid; Pesticide residue problem, RASFF, pesticides related legislation; Residue limits of pesticides in the world and Turkey; The reliability and accuracy of pesticide residue analysis; General procedures in pesticide residue analysis; steps of pesticide residue analysis; pesticide residue analysis	Asst. Prof. Esra BARIM esrabarim@munzur.edu.tr +905054467808	Chemistry and Chemical Processes/ Laboratory Technology Program	
LTP 215/2	THE METHODS OF ANALYTIC AL SEPARATI ON	Spring	the purpose of analytical separation methods, general information about the classification; Physical separation methods; Distillation; Extraction; Introduction to chromatography, classification, important terms and concepts in chromatography; Basic reactions in chromatographic separations; Separation mechanisms, usage areas of chromatography; paper chromatography; Thin layer chromatography; Gas chromatography; Gas chromatography; High performance liquid chromatography; Supercritical fluid chromatography	Asst. Prof. Esra BARIM esrabarim@munzur.edu.tr +905054467808	Chemistry and Chemical Processes/ Laboratory Technology Program	
LTB 203/2	THE TEXTILE AND DYES	Spring	History of textile, definition, subjects and classification of textile fibers; Chemical structures and properties of natural textile raw materials; Chemical processes in textile fiber; Dyestuff chemistry, necessary definitions, general properties of dyestuffs; Classification of dyes, Natural dyes; Fiber-dyestuff chemical interaction; Painting with some dyestuffs: Fastness values for	Asst. Prof. Esra BARIM esrabarim@munzur.edu.tr +905054467808	Chemistry and Chemical Processes/ Laboratory Technology Program	

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LTP 110/3	DACIC	Winter	dyeing and dyeing.	A / D 0 0 0 0	
LIP 110/3	BASIC MICRIBIOL	Winter	Introduction to microbiology,	Asst. Prof. Gülben	Chemistry and
			Terminology, Classification,	TORĞUT	Chemical Processes/
	OGY		General characteristics of	gtorgut@munzur.edu.tr	Laboratory
			microorganism groups,	+905434594123	Technology
			Microbial metabolism,		Program
			Microbial reproduction, Control		
T TTD 100/2	- 1 - 2 - 2		of microorganisms, sterilization		
LTP 103/3	BASIC	Winter	asic concepts; Matter, Properties	Asst. Prof. Gülben	Chemistry and
	CHEMISTR		and Classification of Matter,	TORĞUT	Chemical Processes/
	Y		Element, Compound, Mixture	gtorgut@munzur.edu.tr	Laboratory
			and Other Chemical Concepts,	+905434594123	Technology
			Structure of Atom, Atomic and		Program
			Molecular Weight, atom-gr,		
			Introduction to Periodic Table;		
			Electron Structure of Atom,		
			Electron Array Number and		
			Orbit, Symbols and Valens of		
			Elements. Ion and Molecule		
			Structure. Compound Creation,	1	
			Writing of Compound Formulas	1	
			and Nomenclature, Chemical		
			Equations, Composition by		
			Weight.% Composition,		
			Composition by Volume,		
			Simple and Molecular Formula		
			Determination, Mol Concept		
			and Number of Avagadro, Use		
		1	of Molecencept in Calculations,		
			Chemical Compounds and		
			Chemical Equations,		
			Stoichiemetry, Aqueous		
			Solution Reactions, Molarity, Stoichiemetry of Solution		
			Reactions, Theoretical Yield,		
			Experiment Yield, Yield,		
			Gases, 1 -s Laws and Gas		
T MD 114/0			Pressure desurement,		
LTP 114/3	D. COMPAN CO	Spring	Introduction to instrumental	Asst. Prof. Gülben	Chemistry and
		INSTRUME	analysis, Arelysis techniques,	TORĞUT	Chemical Processes/
	NTAL		modern spectroscopic	gtorgut@munzur.edu.tr	Laboratory
	ANALYCIS		techniques, matter beam	+905434594123	Technology
			interaction, absorption and		Program
			desorption in ues, Atomic		
			absorption sectroscopy,		
			Atomic nation spectroscopy,		
			UV-vis paroscopy, Infrared		
			spectro-cop : NMR		1
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			comprehens the usage and		
			structure of ass spectrometry,		
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LTP 205/2.5	THE	Winter	<u> </u>	Asst. Prof. Gülben	Chamisters 1
LII 203/2,3	ANALYSIS	AA HIICH	Dlout was a subsection		Chemistry and
	OF PLANTS		Plant research root systems,	TORĞUT	Chemical Processes/
	OF PLAINIS		distribt in organic	gtorgut@munzur.edu.tr	Laboratory
			compounds plants,	+905434594123	Technology
			physiologics and biochemical		Program
			events in places and their		1
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			analysis, the mefits of making,		
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1			preparation 1 analysis and		
		1	analysis of the samples, the age,		
			dry burning d the analysis of		
			various mine als in plant		
			samples.		
			organic man ranalysis in plant,		
			inorgani metter analysis in		
			plant, hermone analysis in plant,		
T 577 04 1/0 5			pigment and vsis in plant		
LTP 214/2.5	ANALYSIS	Spring		Asst. Prof. Gülben	Chemistry and
	OF FOODS		Sampling, p maration of	TORĞUT	Chemical Processes/
			samples for analysis, general	gtorgut@munzur.edu.tr	Laboratory
			analysis met ads used in food	+905434594123	Technology
			enterprises; e-ermination of		Program
			moisture (wa ter) and total dry		
			matter, a termination of water		
			soluble and insoluble dry		
			matter, determination of ash, determination of pH and,		
		1	titratable aci i.y. determination		
			of carbot yde a (sugar	1	
			determination fat, protein, and		
			ascorbic neic dermination of		
			some principle of analysis and		
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AİT 101/2	ATATURK	Winter		Lecturer Adem	Chemistry and
	PRINCIPLE		Basic Concents * Causes of the	KIZKAPAN	Chemical Processes/
	S AND		Collapse of the Ottoman Empire	akizkapan@munzur.edu.tr	Laboratory
	REVOLUTI		* Turki M emization	+905367897257	Technology
	ON		Movement * no First World		Program
	HISTORY		War * 7 rki National		
			Struggle		
YBD 101/2	University of the Control of the Con	Winter		Lecturer Duygu YIKMIŞ	Chemistry and
	ENGLISH		Students will be able to follow	MERKİT	Chemical Processes/
			professional English courses in	dyikmis@munzur.edu.tr	Laboratory
			the following years, post-	+905313497858	Technology
			graduatic and in their		Program
			professional to English		
			gramm , vo blary, reading		
			comprehensi . cral expression		
MAT 101/2	MATTITA	Winter	and writing so its	7	
MAT 101/2	MATHEMA	Winter	No. 1	Lecturer Muhlis ÇETİN	Chemistry and
	TICS		Numbers, Numbers Steps,	muhliscetin@munzur.edu.t	Chemical Processes/
			Division. Divisibility Rules,	r	Laboratory
			Prime Mambars, Relatively	+905376910343	Technology
			Numbers, Fe torial, Rational		Program
			Numbers, D and Numbers, Experiences a scoots		
TRD 101/2	TURKISH	Winter	Exponents a depots	Lasturani Cam TODAT	Cl
110 101/2	LANGUAG	W HILEI	Delinition of wares	Lecturer: Cem TOPAL	Chemistry and
	E		Definition of a nguage.  Language and communication,	cemtopal@munzur.edu.tr	Chemical Processes/
			language-thought-religion-	+905074994546	Laboratory
			literature-culture relationship.		Chemistry and
			Types filanginge Languages		Chemical Processes/
			on the face of Turkish		Laboratory
			amaga orla aguages.		Technology
		_	man as an agenges.	11 11 - 1	Program

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			Historical development of Turkish writted language. The current status of Turkish is not spreading.		
LTP 111/3	BIOCHEMİ STRY	Winter	Fundamentals of Biochemistry, Water, Amino Acids, Peptides, Proteins, Three-Dimensional Structure of Poteins, Protein Function, Engines, Carbohydrate . Nucleotides and Nucleic Acid Lipids, Vitamins	Asst. Prof. Hakan ŞAHAL hakansahal@munzur.edu.tr +905069137672	Chemistry and Chemical Processes/ Laboratory Technology Program
LTP 107/2	BASIC INFORMAT ION TECNOLOG OY	Winter	Computer Basic Concepts, Operating Symmm (Windows 7) Usage, Internal and Network Usage, Office (MS Word 2016, MS Excel 20 6, MS Powerpoint 20 the Application Programs.	Lecturer: Yücel BURHAN yucelburhan@munzur.edu.t r +905449466350	Chemistry and Chemical Processes/ Laboratory Technology Program
TRD 102/2	TURKISH LANGUAG E 2	Spring	Expression concept. Ways of improving the right. Expression forms. General features of reading, listering, speaking and writing. Oral opposition and oral expression at types. Written expression at twitten expression at twitten expression at twitten	Lecturer: Cem TOPAL cemtopal@munzur.edu.tr+ 905074994546	Chemistry and Chemical Processes/ Laboratory Technology Program
LTP 112/3	ANALYCA L CHEMISTR Y 1	Spring	Errors in chemical analysis, random error in analysis, application of antistics in data analysis and a plication, gradimetric and yellowing methods, title a rice and yellowing methods.	Asst. Prof. Gülben TORĞUT gtorgut@munzur.edu.tr +905434594123	Chemistry and Chemical Processes/ Laboratory Technology Program
YBD 102/2	ENGLISH 2	Spring	En a sh gran har, vocabulary, realing complehension, oral expression as writing skills	Lecturer Duygu YIKMIŞ MERKİT dyikmis@munzur.edu.tr +905313497858	Chemistry and Chemical Processes/ Laboratory Technology Program
AİT 102/2	ATATURK PRINCIPLE S AND REVOLUTI ON HISTORY	Spring	Atatürk's redous * Turkish Foreign Political Atatürk's perious Atatürk's political devopments in Turkiyand world after 1978.	Lecturer Adem KIZKAPAN akizkapan@munzur.edu.tr +905367897257	Chemistry and Chemical Processes/ Laboratory Technology Program
LTP 201/3	ANALYTIC AL CHEMISTR Y 2	Winter	adestional are multi-protonic acid systems sid-base titrations, as sex formation titrations	Asst. Prof. Berna KOÇAK bernakocak@munzur.edu.tr +905309241152	Chemistry and Chemical Processes/ Laboratory Technology Program
STJ 111/0	STAJ	Spring		Asst. Prof. Gülben TORĞUT gtorgut@munzur.edu.tr +905434594123	Chemistry and Chemical Processes/ Laboratory Technology Program
LTP 109/3	THE SAFETY	Winter	Laboratory bry, Safe wo lag with animals and	Lecturer Nedim Gürler nedimgurler@munzur.edu.t r	Chemistry and Chemical Processes/ Laboratory

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LTP 101/2	BASIC BIOLOGY	Winter	Definition a biology, con biology, con biological a structure, con cytoplasm a nucleus, cell production, photosynthe chromoson	significance of a important s and certain cepts, cellular har membrane, organelles, cell or energy lular respiration, event, and nucleic acids.	Asst. Prof. Aygün KILIÇ aygunkilic@munzur.edu.tr +905072365753	Chemistry and Chemical Processes/ Laboratory Technology Program
LTP 110/3	THE USE AND CARE OF LABORAT ORY EQUIPMEN TS	Spring	Glass mate equipment with labora Transter of liqui's three materials. A additiver precion so laboratory of pill with	with laboratory site materials equipment, to volume of glass and plastic rule discussion of acades and habitenance of mids. Calibration mater.	Asst. Prof. Aygün KILIÇ aygunkilic@munzur.edu.tr +905072365753	Chemistry and Chemical Processes/ Laboratory Technology Program
LTP 102/1	THE LABORAT ORY OF BASIC CHEMISTR Y	Spring	Physical are properties Distribute Timeron, to	n mical	Lecturer Nedim Gürler nedimgurler@munzur.edu.t r +905377354824	Chemistry and Chemical Processes/ Laboratory Technology Program
LTP 108/1	THE LABORAT ORY OF ANALYCA L CHEMISTR Y 1	Spring		re and cations, ste natic anions bein mixtures and tively determine moons.	Lecturer Nedim Gürler nedimgurler@munzur.edu.t r +905377354824	Chemistry and Chemical Processes/ Laboratory Technology Program
LTP 213/2.5	THE ANALYSIS OF SOIL	Spring		eatter. p <b>H,</b> re, pe ta <b>ssium,</b> ne	Lecturer Nedim Gürler nedimgurler@munzur.edu.t r +905377354824	Chemistry and Chemical Processes/ Laboratory Technology Program
LTP 211/1	THE APPLICATI ON OF PROJECT	Winter	Print de tech que man gens en companio a man rem al ion di mutio, print e rem ce harroure.	in project reject planning aty, time and ganization, in project mourve reject execution, reject tasks, an interms of reliabor, The fization and	Asst. Prof. Hakan ŞAHAL hakansahal@munzur.edu.tr +905069137672	Chemistry and Chemical Processes/ Laboratory Technology Program

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			in the ject	gement.		
LTP 202/2	BIOMEDIC AL EQUIPMEN TS	Spring	Biomedical of use, the responsibility equipment to classification equipment and earlies the responsibility of the human to	ipments, fields and of biomedical micians, Thiomedical and safety in ents, operational fety signs in the electrical fund current tests quipments, real current on	Asst. Prof. Aygün KILIÇ aygunkilic@munzur.edu.tr +905072365753	Chemistry and Chemical Processes/ Laboratory Technology Program
LTP 212/3	INDUSTRIA L ANALYSIS TECHNICE S	Spring	Fuel maly for ters Arm sis ( where Pre do ent. come the of free fatter amount of matter and arm sis, m	Chemical oir analysis, to parameters in the of liquid to inclination of oil then is, Analysis os, Analysis of in oil, Volatile Coment and	Lecturer Nedim Gürler nedimgurler@munzur.edu.t r +905377354824	Chemistry and Chemical Processes/ Laboratory Technology Program
LTP 210/2.5	CLINICAL BIOCHEMI STRY AND ANALYSIS	Spring	Connization of the affect of results, quality the hemical procurement process of the affect of the a	felicical decretories and metry laboratory tion of clinical lyses, factors coretory test in choical accepy, competation, and colored blochemical and ad kidney metry.	Asst. Prof. Aygün KILIÇ aygunkilic@munzur.edu.tr +905072365753	Chemistry and Chemical Processes/ Laboratory Technology Program
LTP 206/2	THE COMMUCA TION	Spring	By c cove comming the state of	communication during types, and verception, less, self-	Lecturer Selçuk NERKİS selcuknerkis@munzur.edu. tr +905308532358	Chemistry and Chemical Processes/ Laboratory Technology Program
LAT 204/2	RESEARCH METHODO LOGY AND PRESENTA TION	Spring	Silverence religion in the desired religion in the desired religion in the rel	contents,  contents,	Asst. Prof. Aygün KILIÇ aygunkilic@munzur.edu.tr +905072365753	Chemistry and Chemical Processes/ Laboratory Technology Program

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LTP 203/2.5	WATER	Winter			Asst. Prof. Aygün KILIÇ	Chemistry and	-  :
	ANALYSIS		Streeture an	rapenies of	aygunkilic@munzur.edu.tr	Chemical Processes/	
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LTP 207/1	THE	Winter		Control of the Contro	Asst. Prof. Berna KOÇAK	Chamietus, au d	-
	LABORAT	17 2222	Val acreic	aris methods	bernakocak@munzur.edu.tr	Chemistry and	
	ORY OF		r :			Chemical Processes/	
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LTN 205/2		Winter			Asst. Prof. Hakan ŞAHAL	Chemistry and	۱٠,
	NANO		1.	mindiagy? The	hakansahal@munzur.edu.tr		
	TECHNOLO				+905069137672	Chemical Processes/	500
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Bölüm Başkanı Dr. Öğr. Ü. Gülben TORĞUT

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