VOCATIONAL SCHOOL OF TRANSPORTATION

Education and training activities in nine associate degree programs started in 2012-2013 academic year at Eskişehir Technical University University VOCATIONAL SCHOOL OF TRANSPORTATION by incorporating programs about Railroad Electrical and Electronics Technologies, Railroad Transportation Management, Railroad Machine Technology, Rail Transport Mechanic Training, Railroad Construction, Transportation and Traffic Services, Aircraft Technology Programs at Anadolu University Porsuk Vocational School and Civil Aviation and Cabin Services, Logistic Programs at Anadolu University Eskisehir Vocational School. The education in associate degree programs related to transportation previously situated at Eskişehir Technical University Porsuk Vocational School, "Railroad Electrical and Electronics Technologies", "Railroad Machine Technology", "Railroad Transportation Management", "Railroad Construction" and "Transportation and Traffic Services" started in 2001-2002 academic year, "Rail Transport Mechanic Training" and "Logistic Programs" started in 2009-2010 academic year and "Civil Aviation and Cabin Services" and "Aircraft Technology Programs" started in 2010-2011 academic year. The all associate degree programs at Eskişehir Technical University Vocational School of Transportation are situated within Transportation Services Essential Areas within the scope of Bologna Process National Qualifications Framework for Higher Education in Turkey (NQF-HETR).

Director : Prof.Dr. Yusuf YAVUZ
Deputy Director : Dr. Lecturer Fatma YAŞLI ŞEN

Deputy Director : Lecturer Zafer Hüseyin ERGAN

Secretary to the school :

STAFF

Professors:

Gülsen Serap ÇEKEROL

Associate Professors:

Ömür AKBAYIR, Kadir AKSAY, Meserret NALÇAKAN, Ahmet ONAY, Alp ÖZDEMİR, Seçkin ULUSKAN

Faculty Members:

Emine AKYOL ÖZER, Murat BAŞARAN, Eren BAYRAKCI, Fatih BOZKURT, Mehmet FİDAN, Utku KAYA, Onur KILINÇ, İbrahim KOCABAŞ, Mine SERTSÖZ, Özgün SUNAR, Alper UĞUR, Seyfettin Umut UMU, Yağız UZUNONAT, İlker ÜNDER, Fatma YAŞLI ŞEN, Haluk YILMAZ

Lecturers:

Gökşin AKDENİZ, Mustafa Görkem ATAR, Sinem DİKSU, Zafer Hüseyin ERGAN, Zeynep GÜLTEKİN, Betül GÜMÜŞ, Erkin KARADAYI, Iryna KURYANOVA, Nadir NALÇAKAN, Şükrü Murat TÜRKER, Dilara ÜNÜVAR ÜNLÜOĞLU

Research Assistants:

Süleyman Mert ÖZER

DEPARTMENT OF MOTOR VEHICLES AND TRANSPORTATION TECHNOLOGY

PROGRAM IN RAILROAD ELECTRIC AND ELECTRONICS

Transportation both in local and countrywide scale is important and got complex relationships with various factors. The recent changes in daily life generated a demand for time, comfort, safety and economy. The role of railway transportation in industrial and economic growth is well understood. The new concepts in signalling and traffic administration made it easier to manage complex networks of railways. Railway has a greater role in transportation. The need of skilled labour in electrics and electronics is a growing demand. The construction of subways also generated a demand in skilled technicians. The purpose of the program is graduate the technicians highly skilled and equipped with technical information and appliances in the industry. TCDD and Anadolu University signed a protocol, which TCDD equipment is supplied and professionals are holding lectures.

	I.Semester				II.Semester		
iNG187 (Eng)	English I	3+0	3.0	iNG188 (Eng)	English II	3+0	3.0
MAT1001	Mathematics I	3+0	4.0	MAT1002	Mathematics II	3+0	4.0
RAY101	Introduction to Railway Transportation	3+0	5.0	RAY1012	Basic Computer Programming	1+2	3.0
RAY103	Work Safety	2+0	3.5	RAY102	Railway System Traffic	3+0	4.0
RAY115	Scientific Principles of Technology I	2+0	2.0	RAY116	Scientific Principles of Technology II	2+0	2.0
TAR165	Atatürk's Principles and History of Turkish Revolution I	2+0	2.0	RAY126	Circuit Analysis	4+2	6.0
TRS102	Technical Drawing	2+2	4.5	TAR166	Atatürk's Principles and History of Turkish	2+0	2.0
TÜR125	Turkish Language I	2+0	2.0	TÜR126	Revolution II Turkish Language II	2+0	2.0
10K125	Mesleki Seçmeli Dersler	2±0 	4.0	10K120	Mesleki Seçmeli Dersler	2+0	2.0
	Mesieki Seçmeti Dersier		4.0		Seçmeli Dersler		2.0
			30.0				30.0
RAY201	III.Semester Urban Railway	3+0	4.0	RAY202	IV.Semester Urban Railway	3+0	4.0
RAY209	Transportation Systems I Energy Plants	2+2	4.0	RAY212	Transportation Systems II Electrical Management Plants II	2+2	3.0
RAY211	Electrical Management Plants I	2+2	3.0	RAY214	Communication Technology II	2+2	3.0
RAY213	Communication Technology	2+2	3.0	RAY218	Telephone Station Technology	2+0	2.0
RAY235	Electronics	3+2	4.0	RAY236	Signal Technique	2+2	3.0
	Mesleki Seçmeli Dersler		12.0	UMYO297	Internship	0+2	5.0
					Mesleki Seçmeli Dersler		6.0
					Seçmeli Dersler		4.0
			20.0				20.0
			30.0				30.0
Elective Cour BEÖ155	ses Physical Education					2+0	2.0
ESTÜ1001	Story Analysis On Wor	rld Litera	ture			3+0	3.0
ESTÜ1003	Yoga and Meditation					1+1	2.0
ESTÜ101	Introduction to Univers	ity Life				0+1	2.0
ESTÜ102	Negotiation Techniques	s Class				2+0	3.0
ESTÜ103	Ceramic Design Proces	sses				2+1	3.0
ESTÜ104	Academic and Life Ski					2+1	3.0
ESTÜ105	Big Data Analysis with	SQL				2+2	4.5
ESTÜ106	Proje Yönetimi					2+1	3.0
ESTÜ111	Volunteering Works					1+2	4.0
ESTÜ112	Cyber Security for Eve	ryone				2+0	2.0
ESTÜ113	Design Thinking					3+0	3.0
ESTÜ114	Visual Thinking					3+0 2+1	3.0
ESTÜ115	Photographic Viewpoir Computer Aided Desig					3+0	3.0 3.0
ESTÜ116 ESTÜ117	Computer Aided Desig					3+0 3+0	3.0
ESTÜ117 ESTÜ118	Visual Thinking with C					3+0	3.0
ESTÜ119	Flute	3ep.65				3+1	3.0
ESTÜ120	Solfege					3+1	3.0
ESTÜ121	Piano					3+1	3.0
ESTÜ122	Guitar					3+1	3.0
ESTÜ123	Gender Equality in Wo	rk Life				2+0	3.0
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ESTÜ125	Philosophy of Science	3+0	3.0
ESTÜ127	Diction	1+2	3.0
ESTÜ129	Turkish as a Foreign Language I	2+0	2.0
ESTÜ130	Turkish as a Foreign Language II	2+0	2.0
ESTÜ131	Argentine Tango Dance	0+2	2.0
ESTÜ2001	AI Literacy	2+0	2.0
ESTÜ201	Turkish Sign Language	3+0	3.0
ESTÜ203	Introduction to Sociology	3+0	3.0
ESTÜ204	Effective Reading and Writing Skills	3+0	4.0
ESTÜ206	Financial Literacy	3+0	3.0
ESTÜ210	Culture of Museum	2+0	2.0
ESTÜ301	Science Communication	2+0	3.0
ESTÜ401	Introduction to Professional Life	1+1	2.0
ESTÜ402	Coaching and Leadership	3+0	3.0
ESTÜ403	Basic Computer Utilization	3+0	4.0
ESTÜ405	Computer Programming	3+0	5.0
SAN155	Hall Dances	0+2	2.0
THU203	Community Services	0+2	3.0
UMYO296	Elective Internship	0+2	5.0
	•		
Area Elective Co	urses		
iŞL220	Labor Legislation	2+2	4.0
RAY107	Transportation of Dangerous Substances	3+1	4.0
RAY228	Introduction to Human Resources	2+2	4.0
RAY230	Introduction to Railway Networks	2+2	4.0
RAY231	Introduction to Railway System Administration	2+2	4.0
RAY233	Introduction to Machinery	2+2	4.0
RAY234 (Eng)	Technical English	3+0	3.0
RAY237	Historical Development of Railways	2+2	4.0
RAY242	Computer Aid Circuit Analysis	2+2	4.0
RAY244	Digital Electronic	2+2	4.0
RAY255	Maintenance of Railway Vehicle and Certification	2+2	4.0
RAY257	New Technologies in Rail Systems	2+2	4.0
RAY261	Railway System Vehicle Mechatronics I	3+1	4.0
RAY262	Railway System Vehicle Mechatronics II	3+1	4.0
RAY264	Cultural Values in Railway Transportation	2+2	4.0
RAY266	New Approaches in Railroad Traffic Management	2+2	4.0
RAY268	Scientific Principles in Railway Engineering	2+2	4.0
TOP102	Surveying	2+2	4.5
UMYO105	Basic Computer Skills	3+1	5.0

PROGRAM IN RAILROAD ELECTRIC AND ELECTRONICS TECHNOLOGY

PROGRAM IN RAILROAD MACHINE TECHNOLOGY

Transportation both in local and countrywide scale is important and got complex relationships with various factors. The recent changes in daily life generated a demand for time, comfort, safety and economy. The role of railway transportation in industrial and economic growth is well understood. The new concepts in signalling and traffic administration made it easier to manage complex networks of railways. Railway has a greater role in transportation. The need of skilled labour in mechanics is a growing demand. The construction of subways also generated a demand in skilled technicians. The purpose of the program is graduate the technicians highly skilled and equipped with technical information and appliances in the industry. TCDD and Anadolu University signed a protocol, which TCDD equipment is supplied and professionals are holding lectures.

PROGRAM

	I.Semester				II.Semester		
iNG187 (Eng)	English I	3+0	3.0	ELE102	Basics of Electricity	2+2	3.0
MAT1001	Mathematics I	3+0	4.0	iNG188 (Eng)	English II	3+0	3.0
RAY101	Introduction to Railway	3+0	5.0	MAT1002	Mathematics II	3+0	4.0
	Transportation						

D 4 371 02							
RAY103	Work Safety	2+0	3.5	RAY102	Railway System Traffic	3+0	4.0
RAY115	Scientific Principles of	2+0	2.0	RAY116	Scientific Principles of	2+0	2.0
TAR165	Technology I	2.0	2.0	DAV120	Technology II Introduction to Machines	2+2	3.5
1AK105	Atatürk's Principles and History of Turkish	2+0	2.0	RAY130	introduction to Machines	2+2	3.3
	Revolution I						
TRS102	Technical Drawing	2+2	4.5	TAR166	Atatürk's Principles and	2+0	2.0
					History of Turkish		
					Revolution II		
TÜR125	Turkish Language I	2+0		TÜR126	Turkish Language II	2+0	2.0
	Mesleki Seçmeli Dersler		4.0		Mesleki Seçmeli Dersler		4.5
					Seçmeli Dersler		2.0
			30.0				30.0
	III.Semester				IV.Semester		
RAY201	Urban Railway	3+0	4.0	RAY202	Urban Railway	3+0	4.0
1011201	Transportation Systems I	510	1.0	1011202	Transportation Systems II	510	1.0
RAY203	Basics of Engine	2+2	4.0	RAY204	Railway Cars	2+2	4.0
RAY207	Electric Engines	2+2	4.0	RAY206	Trains and Roundhouses	2+2	4.0
RAY239	Towing Vehicles I	2+2	4.0	RAY208	Basics of Brake	2+2	4.0
	Mesleki Seçmeli Dersler		14.0	RAY240	Towing Vehicles II	2+2	3.0
	•			UMYO297	Internship	0+2	5.0
				/ /	Mesleki Seçmeli Dersler		3.0
					Seçmeli Dersler		3.0
					Seçmen Derster		
			20.0				20.0
			30.0				30.0
Clective Cou						2+0	2.0
Clective Cou BEÖ155 ESTÜ1001	rses Physical Education Story Analysis On Wor	ld Litera	ture			2+0 3+0	2.0 3.0
BEÖ155	Physical Education Story Analysis On Wor	ld Litera	ture				
BEÖ155 ESTÜ1001	Physical Education Story Analysis On Wor Yoga and Meditation		ture			3+0	3.0
BEÖ155 ESTÜ1001 ESTÜ1003 ESTÜ101	Physical Education Story Analysis On Wor Yoga and Meditation Introduction to Univers	ity Life	ture			3+0 1+1	3.0 2.0
BEÖ155 ESTÜ1001 ESTÜ1003 ESTÜ101 ESTÜ102	Physical Education Story Analysis On Wor Yoga and Meditation Introduction to Univers Negotiation Techniques	ity Life Class	ture			3+0 1+1 0+1 2+0	3.0 2.0 2.0 3.0
BEÖ155 ESTÜ1001 ESTÜ1003 ESTÜ101 ESTÜ102 ESTÜ103	Physical Education Story Analysis On Wor Yoga and Meditation Introduction to Univers Negotiation Techniques Ceramic Design Proces	ity Life Class ses	ture			3+0 1+1 0+1 2+0 2+1	3.0 2.0 2.0 3.0 3.0
BEÖ155 ESTÜ1001 ESTÜ1003 ESTÜ101 ESTÜ102 ESTÜ103 ESTÜ104	Physical Education Story Analysis On Wor Yoga and Meditation Introduction to Univers Negotiation Techniques Ceramic Design Proces Academic and Life Skil	ity Life Class ses ls	ture			3+0 1+1 0+1 2+0 2+1 2+1	3.0 2.0 2.0 3.0 3.0 3.0
BEÖ155 ESTÜ1001 ESTÜ1003 ESTÜ101 ESTÜ102 ESTÜ103 ESTÜ104 ESTÜ105	Physical Education Story Analysis On Wor Yoga and Meditation Introduction to Univers Negotiation Techniques Ceramic Design Proces Academic and Life Skil Big Data Analysis with	ity Life Class ses ls	ture			3+0 1+1 0+1 2+0 2+1 2+1 2+2	3.0 2.0 2.0 3.0 3.0 4.5
BEÖ155 ESTÜ1001 ESTÜ1003 ESTÜ1001 ESTÜ101 ESTÜ102 ESTÜ103 ESTÜ104 ESTÜ105 ESTÜ106	Physical Education Story Analysis On Wor Yoga and Meditation Introduction to Univers Negotiation Techniques Ceramic Design Proces Academic and Life Skil Big Data Analysis with Proje Yönetimi	ity Life Class ses ls	ture			3+0 1+1 0+1 2+0 2+1 2+1	3.0 2.0 2.0 3.0 3.0 3.0
BEÖ155 ESTÜ1001 ESTÜ1003 ESTÜ101 ESTÜ101 ESTÜ102 ESTÜ103 ESTÜ104 ESTÜ105 ESTÜ106 ESTÜ111	Physical Education Story Analysis On Wor Yoga and Meditation Introduction to Univers Negotiation Techniques Ceramic Design Proces Academic and Life Skil Big Data Analysis with	ity Life Class ses ls SQL	ture			3+0 1+1 0+1 2+0 2+1 2+1 2+2 2+1	3.0 2.0 2.0 3.0 3.0 3.0 4.5 3.0 4.5
BEÖ155 ESTÜ1001 ESTÜ1003 ESTÜ101 ESTÜ101 ESTÜ102 ESTÜ103 ESTÜ104 ESTÜ105 ESTÜ106 ESTÜ111 ESTÜ111	Physical Education Story Analysis On Wor Yoga and Meditation Introduction to Univers Negotiation Techniques Ceramic Design Proces Academic and Life Skil Big Data Analysis with Proje Yönetimi Volunteering Works Cyber Security for Even	ity Life Class ses ls SQL	ture			3+0 1+1 0+1 2+0 2+1 2+1 2+2 2+1 1+2	3.0 2.0 2.0 3.0 3.0 3.0 4.5 3.0
BEÖ155 ESTÜ1001 ESTÜ1003 ESTÜ101 ESTÜ101 ESTÜ102 ESTÜ103 ESTÜ104 ESTÜ105 ESTÜ106 ESTÜ111	Physical Education Story Analysis On Wor Yoga and Meditation Introduction to Univers Negotiation Techniques Ceramic Design Proces Academic and Life Skil Big Data Analysis with Proje Yönetimi Volunteering Works	ity Life Class ses ls SQL	ture			3+0 1+1 0+1 2+0 2+1 2+1 2+2 2+1 1+2 2+0	3.0 2.0 2.0 3.0 3.0 4.5 3.0 4.0 2.0
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ESTÜ206	Financial Literacy	3+0	3.0
ESTÜ301	Science Communication	2+0	3.0
ESTÜ401	Introduction to Professional Life	1+1	2.0
ESTÜ402	Coaching and Leadership	3+0	3.0
ESTÜ403	Basic Computer Utilization	3+0	4.0
ESTÜ405	Computer Programming	3+0	5.0
SAN155	Hall Dances	0+2	2.0
THU203	Community Services	0+2	3.0
UMYO296	Elective Internship	0+2	5.0
Area Elective Cou	irses		
iŞL220	Labor Legislation	2+2	4.0
MAK252	Energy Management	1+1	2.0
MEK104	Statics Strength of Materials	3+0	4.5
MLZ104	Handling	2+2	3.0
RAY105	Introduction to Locomotive Electrical Systems	3+1	4.0
RAY107	Transportation of Dangerous Substances	3+1	4.0
RAY120	Train Mechanics	2+2	3.0
RAY228	Introduction to Human Resources	2+2	4.0
RAY229	Introduction to Electric-Electronics	2+2	4.0
RAY230	Introduction to Railway Networks	2+2	4.0
RAY231	Introduction to Railway System Administration	2+2	4.0
RAY234 (Eng)	Technical English	3+0	3.0
RAY237	Historical Development of Railways	2+2	4.0
RAY244	Digital Electronic	2+2	4.0
RAY255	Maintenance of Railway Vehicle and Certification	2+2	4.0
RAY257	New Technologies in Rail Systems	2+2	4.0
RAY261	Railway System Vehicle Mechatronics I	3+1	4.0
RAY262	Railway System Vehicle Mechatronics II	3+1	4.0
RAY264	Cultural Values in Railway Transportation	2+2	4.0
RAY266	New Approaches in Railroad Traffic Management	2+2	4.0
RAY268	Scientific Principles in Railway Engineering	2+2	4.0
TOP102	Surveying	2+2	4.5
UMYO105	Basic Computer Skills	3+1	5.0

PROGRAM IN RAIL TRANSPORT MECHANIC TRAINING

As one of the most essential elements of economic and social life, transportation both in local and countrywide has relationships with various factors. The recent changes in daily life around the world generated a demand to live more comfortably, safely and use time more efficiently. The role of safe and fast railway transportation in industrial and economic growth is well understood in our country as well. The need to educate train drivers ,who take up significant missions in railroad transport, with the latest practices is regarded as one of the important national issues. The purpose of the program opened in Vocational School of Transportation is to train drivers who are highly skilled and equipped with technical information and appliances in the industry, and have a high sense of responsibility and mission. TCDD and Anadolu University signed a protocol, by which TCDD is expected to support this training in every aspect.

PROGRAM

	I.Semester				II.Semester		
iNG187 (Eng)	English I	3+0	3.0	ELE102	Basics of Electricity	2+2	3.0
MAT1001	Mathematics I	3+0	4.0	iNG188 (Eng)	English II	3+0	3.0
RAY101	Introduction to Railway Transportation	3+0	5.0	MAT1002	Mathematics II	3+0	4.0
RAY103	Work Safety	2+0	3.5	RAY116	Scientific Principles of Technology II	2+0	2.0
RAY115	Scientific Principles of Technology I	2+0	2.0	RAY130	Introduction to Machines	2+2	3.5
TAR165	Atatürk's Principles and History of Turkish Revolution I	2+0	2.0	RAY148	Railway System Traffic I	3+0	4.0
TRS102	Technical Drawing	2+2	4.5	TAR166	Atatürk's Principles and History of Turkish Revolution II	2+0	2.0
TÜR125	Turkish Language I	2+0	2.0	TÜR126	Turkish Language II	2+0	2.0

	Mesleki Se ç meli Dersler		4.0		Mesleki Seçmeli Dersler		4.5
					Seçmeli Dersler		2.0
					Seçmeti Derster		2.0
			30.0				30.0
	III.Semester				IV.Semester		
RAY201	Urban Railway	3+0	4.0	RAY202	Urban Railway	3+0	4.0
	Transportation Systems I				Transportation Systems II		
RAY203	Basics of Engine	2+2	4.0	RAY246	Train Driving Signal	2+0	2.0
RAY207	Electric Engines	2+2	4.0	RAY248	Technique Train Drive Techniques	2+2	3.0
RAY249	Railway System Traffic II	3+0	4.0	RAY252	Train Mechanics II	3+0	3.0
RAY251	Train Mechanics I	3+0	3.0	UMYO297	Internship	0+2	5.0
RAY253	Towing Vehicles	2+2	4.0		Mesleki Seçmeli Dersler		10.0
	Mesleki Seçmeli Dersler		7.0		Seçmeli Dersler		3.0
			30.0				30.0
			20.0				20.0
El 4 G							
Elective Cour BEÖ155	rses Physical Education					2+0	2.0
ESTÜ1001	Story Analysis On Worl	d Liters	ature			3+0	3.0
ESTÜ1003	Yoga and Meditation	a Liter	iture			1+1	2.0
ESTÜ101	Introduction to Universi	ty Life				0+1	2.0
ESTÜ102	Negotiation Techniques	-				2+0	3.0
ESTÜ103	Ceramic Design Process					2+1	3.0
ESTÜ104	Academic and Life Skil	ls				2+1	3.0
ESTÜ105	Big Data Analysis with	SQL				2+2	4.5
ESTÜ106	Proje Yönetimi					2+1	3.0
ESTÜ111	Volunteering Works					1+2	4.0
ESTÜ112	Cyber Security for Ever	yone				2+0 3+0	2.0 3.0
ESTÜ113 ESTÜ114	Design Thinking Visual Thinking					3+0 3+0	3.0
ESTÜ115	Photographic Viewpoin	t				2+1	3.0
ESTÜ116	Computer Aided Design					3+0	3.0
ESTÜ117	Computer Aided Design					3+0	3.0
ESTÜ118	Visual Thinking with C	oncepts				3+0	3.0
ESTÜ119	Flute					3+1	3.0
ESTÜ120	Solfege					3+1	3.0
ESTÜ121	Piano					3+1	3.0
ESTÜ122	Guitar	l. I ifo				3+1	3.0
ESTÜ123 ESTÜ125	Gender Equality in Wor Philosophy of Science	K LIIE				2+0 3+0	3.0 3.0
ESTÜ127	Diction					1+2	3.0
ESTÜ129	Turkish as a Foreign La	nguage	I			2+0	2.0
ESTÜ130	Turkish as a Foreign La					2+0	2.0
ESTÜ131	Argentine Tango Dance					0+2	2.0
ESTÜ2001	AI Literacy					2+0	2.0
ESTÜ201	Turkish Sign Language					3+0	3.0
ESTÜ203	Introduction to Sociolog		C1-:11-			3+0	3.0
ESTÜ204 ESTÜ206	Effective Reading and V Financial Literacy	vriung	SKIIIS			3+0 3+0	4.0 3.0
ESTU206 ESTÜ210	Culture of Museum					2+0	2.0
ESTÜZIÜ ESTÜ301	Science Communication	1				2+0	3.0
ESTÜ401	Introduction to Profession		e e			1+1	2.0
ESTÜ402	Coaching and Leadershi					3+0	3.0
ESTÜ403	Basic Computer Utilizat					3+0	4.0
ESTÜ405	Computer Programming	;				3+0	5.0
SAN155	Hall Dances					0+2	2.0
THU203 UMYO296	Community Services Elective Internship					0+2 0+2	3.0 5.0
O1v1 1 O290	Piccuse intellishib					U+Z	5.0

Area Elective Courses

iŞL220	Labor Legislation	2+2	4.0
MEK104	Statics Strength of Materials	3+0	4.5
MLZ104	Handling	2+2	3.0
RAY107	Transportation of Dangerous Substances	3+1	4.0
RAY206	Trains and Roundhouses	2+2	4.0
RAY228	Introduction to Human Resources	2+2	4.0
RAY229	Introduction to Electric-Electronics	2+2	4.0
RAY231	Introduction to Railway System Administration	2+2	4.0
RAY234 (Eng)	Technical English	3+0	3.0
RAY237	Historical Development of Railways	2+2	4.0
RAY241	Locomotive Failure and Maintenance Techniques	3+0	4.0
RAY243	Electrical Management Plants	3+0	4.0
RAY245	Telecommunication Technique	2+0	2.0
RAY247	Train Air Conditioning	2+2	4.0
RAY2501	Modern Welding Technologies	3+1	4.0
RAY254	European Union Transportation Legislation	2+2	4.0
RAY255	Maintenance of Railway Vehicle and Certification	2+2	4.0
RAY256	Railway Cars	2+0	3.0
RAY257	New Technologies in Rail Systems	2+2	4.0
RAY258	Railway Networks	2+0	2.0
RAY261	Railway System Vehicle Mechatronics I	3+1	4.0
RAY262	Railway System Vehicle Mechatronics II	3+1	4.0
RAY264	Cultural Values in Railway Transportation	2+2	4.0
RAY266	New Approaches in Railroad Traffic Management	2+2	4.0
RAY268	Scientific Principles in Railway Engineering	2+2	4.0
TOP102	Surveying	2+2	4.5
UMYO105	Basic Computer Skills	3+1	5.0

PROGRAM IN RAILROAD CONSTRUCTION

Transportation both in local and countrywide scale is important and got complex relationships with various factors. The recent changes in daily life generated a demand for time, comfort, safety and economy. The role of railway transportation in industrial and economic growth is well understood. The new concepts in signalling and traffic administration made it easier to manage complex networks of railways. Railway has a greater role in transportation. The need of skilled labour in construction and maintenance is a growing demand. The construction of subways also generated a demand in skilled technicians. The purpose of the program is graduate the technicians highly skilled and equipped with technical information and appliances in the industry. TCDD and Anadolu University signed a protocol, which TCDD equipment is supplied and professionals are holding lectures.

PROGRAM

	I.Semester				II.Semester		
İNG187 (Eng)	English I	3+0	3.0	İNG188 (Eng)	English II	3+0	3.0
MAT1001	Mathematics I	3+0	4.0	MAT1002	Mathematics II	3+0	4.0
RAY101	Introduction to Railway Transportation	3+0	5.0	RAY102	Railway System Traffic	3+0	4.0
RAY103	Work Safety	2+0	3.5	RAY116	Scientific Principles of Technology II	2+0	2.0
RAY115	Scientific Principles of Technology I	2+0	2.0	RAY132	Construction Materials	2+0	2.0
TAR165	Atatürk's Principles and History of Turkish Revolution I	2+0	2.0	TAR166	Atatürk's Principles and History of Turkish Revolution II	2+0	2.0
TRS102	Technical Drawing	2+2	4.5	TOP102	Surveying	2+2	4.5
TÜR125	Turkish Language I	2+0	2.0	TÜR126	Turkish Language II	2+0	2.0
	Mesleki Seçmeli Dersler		4.0		Mesleki Seçmeli Dersler		4.5
					Seçmeli Dersler		2.0
			30.0				30.0

III.Semester IV.Semester

MEK211	Soil Mechanics	3+0	4.0	RAY202	Urban Railway	3+0	4.0
D 4 3/201	II.l D.:!	2.0	4.0	D 4 3/2/20	Transportation Systems II	2.2	4.0
RAY201	Urban Railway Transportation Systems I	3+0	4.0	RAY220	Superstructure Technique and Maintenance	3+2	4.0
RAY217	Infrastructure and	2+2	4.0	RAY222	Rail Welding	2+2	3.0
RAY221	Maintenance Road Machines	2+0	2.0	RAY224	Railroad Project and	2+2	4.0
					Railroad Technique		
TRA203	Bridges and Tunnels	3+0	4.0	UMYO297	Internship	0+2	5.0
	Mesleki Seçmeli Dersler		12.0		Mesleki Seçmeli Dersler		6.0
					Seçmeli Dersler		4.0
			30.0				30.0
Elective Cours	ses						
BEÖ155	Physical Education					2+0	2.0
ESTÜ1001	Story Analysis On World	ld Litera	ature			3+0	3.0
ESTÜ1003	Yoga and Meditation					1+1	2.0
ESTÜ101	Introduction to University	ity Life				0+1	2.0
ESTÜ102	Negotiation Techniques	Class				2+0	3.0
ESTÜ103	Ceramic Design Process	ses				2+1	3.0
ESTÜ104	Academic and Life Skil	ls				2+1	3.0
ESTÜ105	Big Data Analysis with	SQL				2+2	4.5
ESTÜ106	Proje Yönetimi					2+1	3.0
ESTÜ111	Volunteering Works					1+2	4.0
ESTÜ112	Cyber Security for Ever	yone				2+0	2.0
ESTÜ113	Design Thinking					3+0	3.0
ESTÜ114	Visual Thinking					3+0	3.0
ESTÜ115	Photographic Viewpoin					2+1	3.0
ESTÜ116	Computer Aided Design					3+0	3.0
ESTÜ117	Computer Aided Design					3+0	3.0
ESTÜ118	Visual Thinking with C	oncepts				3+0	3.0
ESTÜ119	Flute					3+1	3.0
ESTÜ120 ESTÜ121	Solfege Piano					3+1 3+1	3.0 3.0
ESTÜ121 ESTÜ122	Guitar					3+1 3+1	3.0
ESTÜ122 ESTÜ123	Gender Equality in Wor	k Life				2+0	3.0
ESTÜ125	Philosophy of Science	K Liic				3+0	3.0
ESTÜ123 ESTÜ127	Diction					1+2	3.0
ESTÜ129	Turkish as a Foreign La	nguage	I			2+0	2.0
ESTÜ130	Turkish as a Foreign La					2+0	2.0
ESTÜ131	Argentine Tango Dance					0+2	2.0
ESTÜ2001	AI Literacy					2+0	2.0
ESTÜ201	Turkish Sign Language					3+0	3.0
ESTÜ203	Introduction to Sociolog	gy				3+0	3.0
ESTÜ204	Effective Reading and V	Vriting	Skills			3+0	4.0
ESTÜ206	Financial Literacy					3+0	3.0
ESTÜ210	Culture of Museum					2+0	2.0
ESTÜ301	Science Communication	ı				2+0	3.0
ESTÜ401	Introduction to Profession		e			1+1	2.0
ESTÜ402	Coaching and Leadersh	-				3+0	3.0
ESTÜ403	Basic Computer Utilizar					3+0	4.0
ESTÜ405	Computer Programming	g				3+0	5.0
SAN155	Hall Dances					0+2	2.0
THU203	Community Services					0+2 0+2	3.0
UMYO296	Elective Internship					0+2	5.0
Area Elective	Courses						
işL220	Labor Legislation					2+2	4.0
MEK104	Statics Strength of Mate	erials				3+0	4.5
RAY107	Transportation of Dange		ıbstance	es		3+1	4.0
RAY228	Introduction to Human	Resourc	es			2+2	4.0

RAY229	Introduction to Electric-Electronics	2+2	4.0
RAY231	Introduction to Railway System Administration	2+2	4.0
RAY233	Introduction to Machinery	2+2	4.0
RAY234 (Eng)	Technical English	3+0	3.0
RAY237	Historical Development of Railways	2+2	4.0
RAY255	Maintenance of Railway Vehicle and Certification	2+2	4.0
RAY257	New Technologies in Rail Systems	2+2	4.0
RAY261	Railway System Vehicle Mechatronics I	3+1	4.0
RAY262	Railway System Vehicle Mechatronics II	3+1	4.0
RAY264	Cultural Values in Railway Transportation	2+2	4.0
RAY266	New Approaches in Railroad Traffic Management	2+2	4.0
RAY268	Scientific Principles in Railway Engineering	2+2	4.0
TRA223	Geotechnics for Roads	2+2	4.0
UMYO105	Basic Computer Skills	3+1	5.0

AIRCRAFT TECHNOLOGY PROGRAM

DEPARTMENT OF TRANSPORTATION SERVICES

PROGRAM IN RAILROAD TRANSPORTATION MANAGEMENT

Transportation both in local and countrywide scale is important and got complex relationships with various factors. The recent changes in daily life generated a demand for time, comfort, safety and economy. The role of railway transportation in industrial and economic growth is well understood. The new concepts in signalling and traffic administration made it easier to manage complex networks of railways. Railway has a greater role in transportation. The need of skilled labour in management is a growing demand. The construction of subways also generated a demand in skilled technicians. The purpose of the program is graduate the technicians highly skilled and equipped with technical information and appliances in the industry. TCDD and Anadolu University signed a protocol, which TCDD equipment is supplied and professionals are holding lectures.

PROGRAM

	I.Semester				II.Semester		
iNG187 (Eng)	English I	3+0	3.0	iNG188 (Eng)	English II	3+0	3.0
MAT1001	Mathematics I	3+0	4.0	MAT1002	Mathematics II	3+0	4.0
RAY101	Introduction to Railway Transportation	3+0	5.0	RAY102	Railway System Traffic	3+0	4.0
RAY103	Work Safety	2+0	3.5	RAY116	Scientific Principles of Technology II	2+0	2.0
RAY115	Scientific Principles of Technology I	2+0	2.0	RAY128	Introduction to Business	3+0	3.5
TAR165	Atatürk's Principles and History of Turkish Revolution I	2+0	2.0	TAR166	Atatürk's Principles and History of Turkish Revolution II	2+0	2.0
TRS102	Technical Drawing	2+2	4.5	TÜR126	Turkish Language II	2+0	2.0
TÜR125	Turkish Language I	2+0	2.0		Mesleki Seçmeli Dersler		7.5
	Mesleki Seçmeli Dersler		4.0		Seçmeli Dersler		2.0
			30.0				30.0
	III.Semester				IV.Semester		
HUK154	Commercial Law	2+0	3.0	iSN102	Public Relations	3+0	3.0
İKT214	Transportational Economics	2+0	2.0	iST1012	Statistics	3+0	3.0
RAY201	Urban Railway Transportation Systems I	3+0	4.0	RAY202	Urban Railway Transportation Systems II	3+0	4.0

RAY223	Railway System	2+2	3.0	RAY226	International Railway	3+0	3.0
RAY225	Management Train and Wagon Planning	3+2	4.0	RAY238	Transportation Railway Systems Cost	2+0	2.0
RAY227	Railway Transportation I	3+0	3.0 11.0	UMYO297	Analysis Internship Madaki Sagmali Danalan	0+2	5.0 6.0
	Mesleki Seçmeli Dersler		11.0		Mesleki Seçmeli Dersler		
					Seçmeli Dersler		4.0
			30.0				30.0
Elective Cours	ses						
BEÖ155	Physical Education					2+0	2.0
ESTÜ1001	Story Analysis On World	Litera	ture			3+0	3.0
ESTÜ1003	Yoga and Meditation					1+1	2.0
ESTÜ101	Introduction to University					0+1	2.0
ESTÜ102	Negotiation Techniques (2+0	3.0
ESTÜ103	Ceramic Design Processe					2+1	3.0
ESTÜ104	Academic and Life Skills					2+1	3.0
ESTÜ105	Big Data Analysis with S	QL				2+2	4.5
ESTÜ106	Proje Yönetimi					2+1	3.0
ESTÜ111	Volunteering Works					1+2	4.0
ESTÜ112 ESTÜ113	Cyber Security for Every Design Thinking	one				2+0 3+0	2.0
ESTÜ113 ESTÜ114	Visual Thinking					3+0 3+0	3.0
ESTÜ115	Photographic Viewpoint					2+1	3.0
ESTÜ116	Computer Aided Design	ſ				3+0	3.0
ESTÜ117	Computer Aided Design					3+0	3.0
ESTÜ118	Visual Thinking with Cor					3+0	3.0
ESTÜ119	Flute					3+1	3.0
ESTÜ120	Solfege					3+1	3.0
ESTÜ121	Piano					3+1	3.0
ESTÜ122	Guitar					3+1	3.0
ESTÜ123	Gender Equality in Work	Life				2+0	3.0
ESTÜ125	Philosophy of Science					3+0	3.0
ESTÜ127	Diction		-			1+2	3.0
ESTÜ129	Turkish as a Foreign Lang					2+0	2.0
ESTÜ130	Turkish as a Foreign Lang	guage 1	П			2+0 0+2	2.0 2.0
ESTÜ131 ESTÜ2001	Argentine Tango Dance AI Literacy					0+2 2+0	2.0
ESTÜ2001 ESTÜ201	Turkish Sign Language					3+0	3.0
ESTÜ203	Introduction to Sociology	,				3+0	3.0
ESTÜ204	Effective Reading and W		Skills			3+0	4.0
ESTÜ206	Financial Literacy					3+0	3.0
ESTÜ210	Culture of Museum					2+0	2.0
ESTÜ301	Science Communication					2+0	3.0
ESTÜ401	Introduction to Profession	nal Life	e			1+1	2.0
ESTÜ402	Coaching and Leadership					3+0	3.0
ESTÜ403	Basic Computer Utilization	on				3+0	4.0
ESTÜ405	Computer Programming					3+0	5.0
SAN155	Hall Dances					0+2	2.0
THU203 UMYO296	Community Services Elective Internship					0+2 0+2	3.0 5.0
OWI 1 O 2 9 0	Elective internship					0+2	5.0
Area Elective	Courses						
işL220	Labor Legislation					2+2	4.0
LOJ212	Logistics Management					2+2	4.0
MUH151	Introduction to Accounting	ıg				3+0	4.5
PZL302	Marketing Management	-				3+0	4.5
PZL401	Marketing					2+0	3.0
PZL456	Services Marketing	0	14	_		3+0	4.5
RAY107 RAY120	Transportation of Danger Train Mechanics	ous Su	ostance	S		3+1 2+2	4.0 3.0
NA I 120	Train Wicchailles					ムナム	5.0

RAY228	Introduction to Human Resources	2+2	4.0
RAY229	Introduction to Electric-Electronics	2+2	4.0
RAY230	Introduction to Railway Networks	2+2	4.0
RAY233	Introduction to Machinery	2+2	4.0
RAY234 (Eng)	Technical English	3+0	3.0
RAY237	Historical Development of Railways	2+2	4.0
RAY255	Maintenance of Railway Vehicle and Certification	2+2	4.0
RAY257	New Technologies in Rail Systems	2+2	4.0
RAY259	Organizational Behavior	3+0	4.0
RAY260	Transportation Management	2+2	4.0
RAY261	Railway System Vehicle Mechatronics I	3+1	4.0
RAY262	Railway System Vehicle Mechatronics II	3+1	4.0
RAY264	Cultural Values in Railway Transportation	2+2	4.0
RAY266	New Approaches in Railroad Traffic Management	2+2	4.0
RAY268	Scientific Principles in Railway Engineering	2+2	4.0
TOP102	Surveying	2+2	4.5
UMYO105	Basic Computer Skills	3+1	5.0

PROGRAM IN CIVIL AVIATION CABIN SERVICES

Civil Aviation Cabin Services Programme offers a period of two years education after high school. Students are selected among graduates of relateel vocational high schools and also by National University Entrance Examination (Students Placement Exam, OSS). About 100 students are admitted each year. Students have to take and pass all compulsory courses and reach a minimum GPA (Grade Point Average) of 2.00 before graduation Furthermore, students are required to participate in a 30 days of internship in appropriate organizations.

PROGRAM

	I.Semester				II.Semester		
ANT310	Swimming	1+	2 3.0	iNG116 (Eng)	English Speaking Skills II	1+1	2.5
HYO111	Introduction to Civil Aviation	1+	1 2.0		Health Information and First Aid in the Cabin	1+2	3.0
iLT201	Interpersonal Communication	3+	0 4.5	SHK102	Meteorology	2+0	3.0
iNG115 (Eng)	English Speaking Skills I	1+	1 2.5	SHK106	Introduction to Cabin Attendant	1+2	3.0
SHK101	Knowledge of Basic Flight and Aircraft	1+	1 2.0	TAR166	Atatürk's Principles and History of Turkish Revolution II	2+0	2.0
TAR165	Atatürk's Principles and History of Turkish Revolution I	2+	0 2.0	TÜR126	Turkish Language II	2+0	2.0
TÜR125	Turkish Language I	2+	0 2.0		Mesleki Se ç meli Dersler		8.5
	Mesleki Seçmeli Dersler		8.0		Seçmeli Dersler		2.0
	Yabancı Dil Dersleri		4.0		Yabancı Dil Dersleri		4.0
				-			
			30.	0			30.0
	III.Semester				IV.Semester		
HYO227	Airport and Flight Security	3+0	3.0	iNG218 (Eng)	English Speaking Skills IV	2+3	5.5
iNG217 (Eng)	English Speaking Skills III	3+4	7.0	SHK202	Emergency Procedures	1+3	3.5
SHK201	Normal Safety Procedures	1+3	3.5	SHK210	In-Flight Resource Management	1+2	3.0
SHK205	In-Flight Customer Services	1+2	3.0	UMYO297	Internship	0+2	5.0
SHK207	Passenger Service	1 + 1	2.0		Mesleki Seçmeli Dersler		9.0
	Mesleki Seçmeli Dersler		7.5		Yabancı Dil Dersleri		4.0
	Yabancı Dil Dersleri		4.0				

30.0

	30.0		30.0
Foreign Language		•	
ÇİN255 (Chi)	Chinese I	3+0	4.0
ÇİN256 (Chi)	Chinese II	3+0	4.0
ÇİN357 (Chi)	Chinese III Chinese IV	3+0	4.0 4.0
ÇİN358 (Chi)	Spanish I	3+0 3+0	4.0
iSP154 (Spa) iSP255 (Spa)	Spanish II	3+0	4.0
iSP257 (Spa)	Spanish III	3+0	4.0
iSP358 (Spa)	Spanish IV	3+0	4.0
iTA255 (ita)	Italian I	3+0	4.0
iTA256 (ita)	Italian II	3+0	4.0
iTA357 (ita)	Italian III	3+0	4.0
iTA358 (ita)	Italian IV	3+0	4.0
JAP301 (Jap)	Japanese I	4+0	4.0
JAP302 (Jap)	Japanese II	4+0	4.0
JAP403 (Jap)	Japanese III	4+0 4+0	4.0 4.0
JAP404 (Jap) RUS115 (Rus)	Japanese IV Russian I	3+0	4.0
RUS116 (Rus)	Russian II	3+0	4.0
RUS217 (Rus)	Russian III	3+0	4.0
RUS218 (Rus)	Russian IV	3+0	4.0
UFR101 (Fra)	French I	3+0	4.0
UFR102 (Fra)	French II	3+0	4.0
UFR201 (Fra)	French III	3+0	4.0
UFR202 (Fra)	French IV	3+0	4.0
Elective Courses			
BEÖ155	Physical Education	2+0	2.0
ESTÜ1001	Story Analysis On World Literature	3+0	3.0
ESTÜ1003	Yoga and Meditation	1+1	2.0
ESTÜ101	Introduction to University Life	0+1	2.0
ESTÜ102	Negotiation Techniques Class	2+0	3.0
ESTÜ103	Ceramic Design Processes	2+1	3.0
ESTÜ104 ESTÜ105	Academic and Life Skills Pic Data Analysis with SOI	2+1 2+2	3.0 4.5
ESTÜ105 ESTÜ106	Big Data Analysis with SQL Proje Yönetimi	2+2	3.0
ESTÜ111	Volunteering Works	1+2	4.0
ESTÜ111 ESTÜ112	Cyber Security for Everyone	2+0	2.0
ESTÜ113	Design Thinking	3+0	3.0
ESTÜ114	Visual Thinking	3+0	3.0
ESTÜ115	Photographic Viewpoint	2+1	3.0
ESTÜ116	Computer Aided Design I	3+0	3.0
ESTÜ117	Computer Aided Design II	3+0	3.0
ESTÜ118	Visual Thinking with Concepts	3+0	3.0
ESTÜ119	Flute	3+1	3.0
ESTÜ120	Solfege	3+1	3.0
ESTÜ121	Piano	3+1	3.0
ESTÜ122 ESTÜ123	Guitar Gender Equality in Work Life	3+1 2+0	3.0 3.0
ESTÜ125 ESTÜ125	Philosophy of Science	3+0	3.0
ESTÜ127	Diction	1+2	3.0
ESTÜ127 ESTÜ129	Turkish as a Foreign Language I	2+0	2.0
ESTÜ130	Turkish as a Foreign Language II	2+0	2.0
ESTÜ2001	AI Literacy	2+0	2.0
ESTÜ201	Turkish Sign Language	3+0	3.0
ESTÜ203	Introduction to Sociology	3+0	3.0
ESTÜ204	Effective Reading and Writing Skills	3+0	4.0
ESTÜ206	Financial Literacy	3+0	3.0
ESTÜ210	Culture of Museum	2+0	2.0
ESTÜ301	Science Communication	2+0	3.0

			• •
ESTÜ401	Introduction to Professional Life	1+1	2.0
ESTÜ402	Coaching and Leadership	3+0	3.0
ESTÜ403	Basic Computer Utilization	3+0	4.0
ESTÜ405	Computer Programming	3+0	5.0
MÜZ151	Short History of Music	2+0	3.0
MÜZ155	Turkish Folk Music	2+0	2.0
MÜZ157	Traditional Turkish Art Music	2+0	2.0
SAN155	Hall Dances	0+2	2.0
SNT155	History of Art	2+0	2.0
SOS155	Folkdance	2+0	2.0
THU203	Community Services	0+2	3.0
TİY308	Republic Era Turkish Theatre	2+0	3.0
UMYO296	Elective Internship	0+2	5.0
Area Elective Co	urses		
HTK406	Aviation Psychology	3+0	4.5
HYO303	Model Aircraft Constmetion	1+2	3.0
HYO308	Organizational Behavior	3+0	3.0
HYO451	General Aviation	3+0	4.5
iLT303	Communication and Persuasion	3+0	4.5
iLT356	Non-Verbal Communication	3+0	3.5
iLT363	Verbal Communication	3+0	4.5
iŞL102	Management and Organization	3+0	4.0
iŞL213	Human Sources Management	2+0	3.0
iŞL352	Organizational Communication	2+0	3.0
SHK103	Professional English I	2+1	3.0
SHK104 (Eng)	Professional English II	2+1	4.0
SHK107 (Eng)	English in Real Life I	3+0	4.0
SHK108 (Eng)	English in Real Life II	3+0	4.0
SHK203	Basic Service Knowledge	1+1	2.0
SHK204	In-Flight Services	1+1	2.0
SHK206	CRS Application	1+3	3.5
SHK208	Dangerous Goods	1+1	2.0
SHK211	Airline Marketing	2+0	3.0
SHK212	Ground Handling and Operation	1+1	2.0
SHU223	Safety Management System	2+0	3.0
TÜR215	Sign Language	1+1	3.0
UMYO105	Basic Computer Skills	3+1	5.0

PROGRAM IN TRANSPORTATION AND TRAFFIC SERVICES

Scientific and technological improvements of our times have effected society and human life in many ways and increased life standards with new technology and equipments. Transportation vehicles; have positive effects in economic, social and cultural improvements. The fact that the number of vehicles and drivers has increased has created the concept of "Traffic Safety". Traffic safety concept includes deaths, injuries, physical disabilities, social-economical losses, relatives of dead and wounded, and psychological, social effects, environmental pollution. Traffic accidents occured without concern of time, person and location effect all people in society and therefore interest public opinion. In developed countries; there are many projects about traffic safety, and there are institutions educating people about traffic, and highway transportation, also educating experts and producing various research. Depending on the results of these researchs, new plans and social campaigns are being held. Besides the increase in number of motor vehicles and drivers, improvements in the country, the increase in population, unsystematic city planning increase the possibility of traffic accidents and causes difficulties for the solution of the traffic safety problem. Traffic safety; can be solved by the improvements in infrastructure and training of more people about traffic. Highway Transportation and Traffic Program held by Porsuk Vocational School aims at supplying the labor force necessary for highway transportation and traffic.

PROGRAM

	I.Semester				II.Semester		
iNG187 (Eng)	English I	3+0	3.0	iNG188 (Eng)	English II	3+0	3.0
iST1012	Statistics	3+0	3.0	MAT1002	Mathematics II	3+0	4.0
MAT1001	Mathematics I	3+0	4.0	RAY116	Scientific Principles of	2+0	2.0
					Technology II		
MEK103	Vehicle Mechanics	3+2	5.0	TOP102	Surveying	2+2	4.5

D 437115	G : .:C D: : 1 C	2.0		TTD 4 10 4	TD CC' D 1 4' 1	2.0	2.5
RAY115	Scientific Principles of Technology I	2+0	2.0	TRA104	Traffic Regulations and Law	2+0	2.5
TRA101	Introduction to Transportation and Traffic	3+0	5.0	TRA118	Transportation Politics and Planning	3+0	3.0
TÜR125	Technique Turkish Language I	2+0	2.0	TRS102	Technical Drawing	2+2	4.5
	Mesleki Seçmeli Dersler		4.0	TÜR126	Turkish Language II	2+0	2.0
	Seçmeli Dersler		2.0		Mesleki Se ç meli Dersler		4.5
			30.0)			30.0
	III.Semester				IV.Semester		
MEK211	Soil Mechanics	3+0	4.0	İKT214	Transportational Economics	2+0	2.0
PSi203	Traffic Psychology	2+0	2.0	TAR166	Atatürk's Principles and	2+0	2.0
	,				History of Turkish Revolution II		
SAĞ102	First Aid	2+0	2.5	TRA202	Traffic Planning and Application II	2+2	3.0
TAR165	Atatürk's Principles and History of Turkish Revolution I	2+0	2.0	TRA203	Bridges and Tunnels	3+0	4.0
TRA201	Traffic Planning and Application I	2+2	4.5	TRA204	Road Superstructure	2+0	2.0
TRA217	Road Projects and Highway Techniques	2+2	4.0	TRA214	Computer Applications in Traffic Planning	2+2	3.0
	Mesleki Seçmeli Dersler		11.0	UMYO297	Internship	0+2	5.0
					Mesleki Se ç meli Dersler		6.0
					Seçmeli Dersler		3.0
			30.0		,		30.0
Elective Cou	rses				,		
BEÖ155	Physical Education		30.0		,	2+0	30.0
BEÖ155 ESTÜ1001	Physical Education Story Analysis On Wor	ld Litei	30.0		,	2+0 3+0	30.0 2.0 3.0
BEÖ155	Physical Education Story Analysis On Wor Yoga and Meditation		30.0		,		30.0
BEÖ155 ESTÜ1001	Physical Education Story Analysis On Wor		30.0		,	3+0	30.0 2.0 3.0
BEÖ155 ESTÜ1001 ESTÜ1003	Physical Education Story Analysis On Wor Yoga and Meditation	ity Life	30.0		,	3+0 1+1	2.0 3.0 2.0
BEÖ155 ESTÜ1001 ESTÜ1003 ESTÜ101 ESTÜ102	Physical Education Story Analysis On Wor Yoga and Meditation Introduction to Univers Negotiation Techniques	ity Life s Class	30.0		,	3+0 1+1 0+1 2+0	2.0 3.0 2.0 2.0 3.0
BEÖ155 ESTÜ1001 ESTÜ1003 ESTÜ101 ESTÜ102 ESTÜ103	Physical Education Story Analysis On Wor Yoga and Meditation Introduction to Univers Negotiation Techniques Ceramic Design Proces	ity Life s Class ses	30.0			3+0 1+1 0+1 2+0 2+1	2.0 3.0 2.0 2.0 3.0 3.0 3.0
BEÖ155 ESTÜ1001 ESTÜ1003 ESTÜ101 ESTÜ102 ESTÜ103 ESTÜ104	Physical Education Story Analysis On Wor Yoga and Meditation Introduction to Univers Negotiation Techniques Ceramic Design Proces Academic and Life Skil	ity Life s Class ses lls	30.0			3+0 1+1 0+1 2+0 2+1 2+1	2.0 3.0 2.0 2.0 3.0 3.0 3.0 3.0
BEÖ155 ESTÜ1001 ESTÜ1003 ESTÜ101 ESTÜ102 ESTÜ103 ESTÜ104 ESTÜ105	Physical Education Story Analysis On Wor Yoga and Meditation Introduction to Univers Negotiation Techniques Ceramic Design Proces Academic and Life Skil Big Data Analysis with	ity Life s Class ses lls	30.0			3+0 1+1 0+1 2+0 2+1 2+1 2+2	2.0 3.0 2.0 2.0 3.0 3.0 3.0 4.5
BEÖ155 ESTÜ1001 ESTÜ1003 ESTÜ101 ESTÜ102 ESTÜ103 ESTÜ104 ESTÜ105 ESTÜ106	Physical Education Story Analysis On Wor Yoga and Meditation Introduction to Univers Negotiation Techniques Ceramic Design Proces Academic and Life Skil Big Data Analysis with Proje Yönetimi	ity Life s Class ses lls	30.0			3+0 1+1 0+1 2+0 2+1 2+1 2+2 2+1	2.0 3.0 2.0 2.0 3.0 3.0 3.0 4.5 3.0
BEÖ155 ESTÜ1001 ESTÜ1003 ESTÜ101 ESTÜ101 ESTÜ102 ESTÜ103 ESTÜ104 ESTÜ105 ESTÜ106 ESTÜ111	Physical Education Story Analysis On Wor Yoga and Meditation Introduction to Univers Negotiation Techniques Ceramic Design Proces Academic and Life Skil Big Data Analysis with Proje Yönetimi Volunteering Works	ity Life s Class ses lls SQL	30.0			3+0 1+1 0+1 2+0 2+1 2+1 2+2 2+1 1+2	2.0 3.0 2.0 2.0 3.0 3.0 3.0 4.5 3.0 4.0
BEÖ155 ESTÜ1001 ESTÜ1003 ESTÜ101 ESTÜ102 ESTÜ103 ESTÜ104 ESTÜ105 ESTÜ106 ESTÜ111	Physical Education Story Analysis On Wor Yoga and Meditation Introduction to Univers Negotiation Techniques Ceramic Design Proces Academic and Life Skil Big Data Analysis with Proje Yönetimi Volunteering Works Cyber Security for Even	ity Life s Class ses lls SQL	30.0			3+0 1+1 0+1 2+0 2+1 2+1 2+2 2+1 1+2 2+0	2.0 3.0 2.0 2.0 3.0 3.0 4.5 3.0 4.0 2.0
BEÖ155 ESTÜ1001 ESTÜ1003 ESTÜ101 ESTÜ102 ESTÜ103 ESTÜ104 ESTÜ105 ESTÜ106 ESTÜ111 ESTÜ111	Physical Education Story Analysis On Wor Yoga and Meditation Introduction to Univers Negotiation Techniques Ceramic Design Proces Academic and Life Skil Big Data Analysis with Proje Yönetimi Volunteering Works Cyber Security for Even Design Thinking	ity Life s Class ses lls SQL	30.0			3+0 1+1 0+1 2+0 2+1 2+1 2+2 2+1 1+2 2+0 3+0	30.0 2.0 3.0 2.0 3.0 3.0 4.5 3.0 4.0 2.0 3.0
BEÖ155 ESTÜ1001 ESTÜ1003 ESTÜ101 ESTÜ102 ESTÜ103 ESTÜ104 ESTÜ105 ESTÜ106 ESTÜ111	Physical Education Story Analysis On Wor Yoga and Meditation Introduction to Univers Negotiation Techniques Ceramic Design Proces Academic and Life Skil Big Data Analysis with Proje Yönetimi Volunteering Works Cyber Security for Ever Design Thinking Visual Thinking	ity Life s Class ses lls SQL	30.0			3+0 1+1 0+1 2+0 2+1 2+1 2+2 2+1 1+2 2+0	30.0 2.0 3.0 2.0 3.0 3.0 4.5 3.0 4.0 2.0 3.0 3.0
BEÖ155 ESTÜ1001 ESTÜ1003 ESTÜ101 ESTÜ102 ESTÜ103 ESTÜ104 ESTÜ105 ESTÜ106 ESTÜ111 ESTÜ111 ESTÜ112 ESTÜ113	Physical Education Story Analysis On Wor Yoga and Meditation Introduction to Univers Negotiation Techniques Ceramic Design Proces Academic and Life Skil Big Data Analysis with Proje Yönetimi Volunteering Works Cyber Security for Even Design Thinking	ity Life s Class ses lls SQL	30.0			3+0 1+1 0+1 2+0 2+1 2+1 2+2 2+1 1+2 2+0 3+0	30.0 2.0 3.0 2.0 3.0 3.0 4.5 3.0 4.0 2.0 3.0 3.0 3.0 4.5 3.0 3.0 3.0 3.0
BEÖ155 ESTÜ1001 ESTÜ1003 ESTÜ101 ESTÜ102 ESTÜ103 ESTÜ104 ESTÜ105 ESTÜ106 ESTÜ111 ESTÜ111	Physical Education Story Analysis On Wor Yoga and Meditation Introduction to Univers Negotiation Techniques Ceramic Design Proces Academic and Life Skil Big Data Analysis with Proje Yönetimi Volunteering Works Cyber Security for Ever Design Thinking Visual Thinking	ity Life s Class ses lls SQL ryone	30.0			3+0 1+1 0+1 2+0 2+1 2+1 2+2 2+1 1+2 2+0 3+0 3+0	30.0 2.0 3.0 2.0 3.0 3.0 4.5 3.0 4.0 2.0 3.0 3.0
BEÖ155 ESTÜ1001 ESTÜ1003 ESTÜ101 ESTÜ102 ESTÜ103 ESTÜ104 ESTÜ105 ESTÜ106 ESTÜ111 ESTÜ111 ESTÜ112 ESTÜ113 ESTÜ114 ESTÜ115 ESTÜ115	Physical Education Story Analysis On Wor Yoga and Meditation Introduction to Univers Negotiation Techniques Ceramic Design Proces Academic and Life Skil Big Data Analysis with Proje Yönetimi Volunteering Works Cyber Security for Ever Design Thinking Visual Thinking Photographic Viewpoin Computer Aided Design	ity Life s Class ses sels SQL ryone	30.0			3+0 1+1 0+1 2+0 2+1 2+1 2+2 2+1 1+2 2+0 3+0 3+0 2+1 3+0	30.0 2.0 3.0 2.0 3.0 3.0 4.5 3.0 4.0 2.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3
BEÖ155 ESTÜ1001 ESTÜ1003 ESTÜ1001 ESTÜ1001 ESTÜ1002 ESTÜ1003 ESTÜ1004 ESTÜ1005 ESTÜ1006 ESTÜ1106 ESTÜ111 ESTÜ111 ESTÜ111 ESTÜ111 ESTÜ111 ESTÜ111 ESTÜ111 ESTÜ111 ESTÜ111 ESTÜ111 ESTÜ111 ESTÜ111 ESTÜ111 ESTÜ111 ESTÜ111 ESTÜ111	Physical Education Story Analysis On Wor Yoga and Meditation Introduction to Univers Negotiation Techniques Ceramic Design Proces Academic and Life Skil Big Data Analysis with Proje Yönetimi Volunteering Works Cyber Security for Ever Design Thinking Visual Thinking Photographic Viewpoin Computer Aided Design	ity Life s Class ses lls SQL ryone at n I	30.0 rature			3+0 1+1 0+1 2+0 2+1 2+1 2+2 2+1 1+2 2+0 3+0 3+0 2+1 3+0 3+0	30.0 2.0 3.0 2.0 3.0 3.0 4.5 3.0 4.0 2.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3
BEÖ155 ESTÜ1001 ESTÜ1003 ESTÜ1001 ESTÜ1001 ESTÜ1002 ESTÜ1003 ESTÜ1004 ESTÜ1005 ESTÜ1006 ESTÜ1106 ESTÜ111 ESTÜ111 ESTÜ111 ESTÜ111 ESTÜ111 ESTÜ111 ESTÜ111 ESTÜ111 ESTÜ111 ESTÜ111 ESTÜ1116 ESTÜ117 ESTÜ1118	Physical Education Story Analysis On Wor Yoga and Meditation Introduction to Univers Negotiation Techniques Ceramic Design Proces Academic and Life Skil Big Data Analysis with Proje Yönetimi Volunteering Works Cyber Security for Ever Design Thinking Visual Thinking Photographic Viewpoin Computer Aided Design Computer Aided Design Visual Thinking with C	ity Life s Class ses lls SQL ryone at n I	30.0 rature			3+0 1+1 0+1 2+0 2+1 2+1 2+2 2+1 1+2 2+0 3+0 3+0 2+1 3+0 3+0 3+0	30.0 2.0 3.0 2.0 3.0 3.0 4.5 3.0 4.0 2.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3
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ESTÜ201	Turkish Sign Language	3+0	3.0
ESTÜ203	Introduction to Sociology	3+0	3.0
ESTÜ204	Effective Reading and Writing Skills	3+0	4.0
ESTÜ206	Financial Literacy	3+0	3.0
ESTÜ210	Culture of Museum	2+0	2.0
ESTÜ301	Science Communication	2+0	3.0
ESTÜ401	Introduction to Professional Life	1+1	2.0
ESTÜ402	Coaching and Leadership	3+0	3.0
ESTÜ403	Basic Computer Utilization	3+0	4.0
ESTÜ405	Computer Programming	3+0	5.0
SAN155	Hall Dances	0+2	2.0
THU203	Community Services	0+2	3.0
UMYO296	Elective Internship	0+2	5.0
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Area Elective Co	urses		
HUK153	Fundamentals Concepts of Law	2+0	3.0
iSN102	Public Relations	3+0	3.0
MEK104	Statics Strength of Materials	3+0	4.5
PSi208	Conflict and Stress Management	3+0	5.0
RAY107	Transportation of Dangerous Substances	3+1	4.0
TRA206	International Traffic Law Enforcement	3+0	4.0
TRA209	Traffic Documentation Operations	3+0	4.0
TRA210	Accident Location, Investigation and Consultative Authority	2+2	3.0
TRA211	Traffic Education	3+0	4.0
TRA212 (Eng)	Technical English	3+0	3.0
TRA213	Highway Services and Maintenance	3+0	4.0
TRA215	Motorized Vehicle Technology	3+0	4.0
TRA216	Highway Traffic Safety Control	3+0	4.0
TRA219	Traffic Audits and Regulations	3+0	4.0
TRA221	Geographic Information Systems and Road Modeling	3+0	4.0
TRA223	Geotechnics for Roads	2+2	4.0
TRA225	Vehicle and Driving Safety	3+1	4.0
UMYO105	Basic Computer Skills	3+1	5.0

PROGRAM IN TRANSPORTATION AND TRAFFIC SERVICES (KKTC)

DEPARTMENT OF MANAGEMENT AND ORGANIZATION

PROGRAM IN LOGISTICS

Logistic Department offers a period of two years education after high school. Students are selected among graduates of related vocational high schools and also by National University Entrance Examination (Students Placement Exam, OSS). About 30 students are admitted each year. Student have to take and pass all compulsory courses and reach a minimum GPA (Grade Point Average) of 2.00 before graduation. Furthermore, students are required to participate in a 30 days of internship in appropriate organizations.

PROGRAM

	I.Semester				II.Semester		
HUK117	Fundamentals of Law	2+0	2.0	iNG188 (Eng)	English II	3+0	3.0
İKT120	Introduction to Economy	3+0	4.0	iST1012	Statistics	3+0	3.0
iNG187 (Eng)	English I	3+0	3.0	LOJ104	Use of Computer in	3+0	4.5
					Logistic		
iŞL155	Introduction to Business	2+0	3.0	LOJ108	Logistics Geography	2+0	4.0
LOJ103	Principles of Logistic	3+2	5.0	LOJ110	Transportation Systems	3+0	3.5
MAT1001	Mathematics I	3+0	4.0	MAT1002	Mathematics II	3+0	4.0

TAR165	Atatürk's Principles and History of Turkish	2+0	2.0	TAR166	Atatürk's Principles and History of Turkish	2+0	2.0
	Revolution I				Revolution II		
TÜR125	Turkish Language I	2+0	2.0	TÜR126	Turkish Language II	2+0	2.0
10K123	Mesleki Seçmeli Dersler		5.0	10K120	Mesleki Seçmeli Dersler		2.0
	mesieki Seymeti Dersier		5.0		Seçmeli Dersler		2.0
					Seçmen Dersier		
			30.0				30.0
			30.0				30.0
	III.Semester				IV.Semester		
LOJ205	Management of Storage and	2+1	3.5	LOJ206	Practices of Logistic	0+6	6.0
LO3203	Ware House	211	3.3	LO3200	Tractices of Logistic	010	0.0
LOJ215	Supply Chain Management	3+0	4.5	LOJ216	Transportation of	3+0	4.0
	11.7				Dangerous Substances		
LOJ217	Transportation Management	3+0	4.0	LOJ218	Custom and Transit	2+0	4.0
					Transactions		
LOJ219	Logistics Law and	3+0	4.0	LOJ220	Integrated Logistics	2+0	4.0
	Documentations		10.0	ID 070202	Management	0.2	5.0
	Mesleki Se ç meli Dersler		12.0	UMYO297	Internship	0+2	5.0
	Seçmeli Dersler		2.0		Mesleki Seçmeli Dersler		7.0
			30.0				30.0
			50.0				50.0
Foreign I on	guage Courses						
ESTÜ1003	Yoga and Meditation					1+1	2.0
	. 6						
Elective Cou	rses						
Elective Cou BEÖ155						2+0	2.0
BEÖ155	Physical Education	d Litera	nture			2+0 3+0	2.0 3.0
	Physical Education Story Analysis On World		nture				
BEÖ155 ESTÜ1001 ESTÜ101	Physical Education Story Analysis On World Introduction to Universit	ty Life	iture			3+0	3.0
BEÖ155 ESTÜ1001 ESTÜ101 ESTÜ102	Physical Education Story Analysis On World Introduction to Universit Negotiation Techniques	ty Life Class	iture			3+0 0+1	3.0 2.0
BEÖ155 ESTÜ1001 ESTÜ101	Physical Education Story Analysis On World Introduction to Universit	ty Life Class es	ature			3+0 0+1 2+0	3.0 2.0 3.0
BEÖ155 ESTÜ1001 ESTÜ101 ESTÜ102 ESTÜ103 ESTÜ104	Physical Education Story Analysis On World Introduction to Universit Negotiation Techniques Ceramic Design Process Academic and Life Skill	ty Life Class es s	nture			3+0 0+1 2+0 2+1	3.0 2.0 3.0 3.0
BEÖ155 ESTÜ1001 ESTÜ101 ESTÜ102 ESTÜ103 ESTÜ104 ESTÜ105	Physical Education Story Analysis On World Introduction to Universit Negotiation Techniques Ceramic Design Process Academic and Life Skill Big Data Analysis with S	ty Life Class es s	nture			3+0 0+1 2+0 2+1 2+1	3.0 2.0 3.0 3.0 3.0
BEÖ155 ESTÜ1001 ESTÜ101 ESTÜ102 ESTÜ103 ESTÜ104 ESTÜ105 ESTÜ106	Physical Education Story Analysis On World Introduction to Universit Negotiation Techniques Ceramic Design Process Academic and Life Skill Big Data Analysis with S Proje Yönetimi	ty Life Class es s	ature			3+0 0+1 2+0 2+1 2+1 2+2 2+1	3.0 2.0 3.0 3.0 3.0 4.5
BEÖ155 ESTÜ1001 ESTÜ101 ESTÜ102 ESTÜ103 ESTÜ104 ESTÜ105 ESTÜ106	Physical Education Story Analysis On World Introduction to Universit Negotiation Techniques Ceramic Design Process Academic and Life Skill Big Data Analysis with S Proje Yönetimi Volunteering Works	ty Life Class es s SQL	ature			3+0 0+1 2+0 2+1 2+1 2+2 2+1 1+2	3.0 2.0 3.0 3.0 3.0 4.5 3.0 4.5
BEÖ155 ESTÜ1001 ESTÜ1001 ESTÜ101 ESTÜ102 ESTÜ103 ESTÜ104 ESTÜ105 ESTÜ106 ESTÜ111	Physical Education Story Analysis On World Introduction to Universit Negotiation Techniques Ceramic Design Process Academic and Life Skill Big Data Analysis with S Proje Yönetimi Volunteering Works Cyber Security for Every	ty Life Class es s SQL	ature			3+0 0+1 2+0 2+1 2+1 2+2 2+1	3.0 2.0 3.0 3.0 3.0 4.5 3.0 4.0 2.0
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ESTÜ401	Introduction to Professional Life	1+1	2.0
ESTÜ402	Coaching and Leadership	3+0	3.0
ESTÜ403	Basic Computer Utilization	3+0	4.0
ESTÜ405	Computer Programming	3+0	5.0
MÜZ151	Short History of Music	2+0	3.0
MÜZ155	Turkish Folk Music	2+0	2.0
MÜZ157	Traditional Turkish Art Music	2+0	2.0
SAN155	Hall Dances	0+2	2.0
SNT155	History of Art	2+0	2.0
SOS155	Folkdance	2+0	2.0
THU203	Community Services	0+2	3.0
TiY308	Republic Era Turkish Theatre	2+0	3.0
UMYO296	Elective Internship	0+2	5.0
Area Elective Co	ourses		
EMY225	Urbanization and Environment Problems	2+0	2.0
HUK154	Commercial Law	2+0	3.0
HUK223	Labor and Social Security Law	2+0	3.0
İKT228	International Economy	2+0	2.0
iST226	Operations Research	2+0	3.0
işL212	Inventory Management	2+0	3.5
iŞL213	Human Sources Management	2+0	3.0
iŞL421	Entrepreneurship	2+0	3.0
LOJ201	Technology Use in Logistic	2+0	2.0
LOJ211	Vocational English	2+0	3.0
LOJ214	Logistics Costs Analysis	2+0	3.0
LOJ221	Railway Transportation	3+0	3.0
LOJ223	Combined Transport	3+0	3.0
LOJ225	Transportation Liability and Insurance	3+0	3.0
LOJ227	Terminal Planning	3+0	3.0
LOJ229	International Logistics and Trade Organizations	3+0	3.0
LOJ231	Organizational Behavior	2+0	3.0
MUH151	Introduction to Accounting	3+0	4.5
PZL241	Industrial Marketing	2+0	2.0
PZL302	Marketing Management	3+0	4.5
TKY204	Total Quality Management	2+0	2.0
UMYO105	Basic Computer Skills	3+1	5.0

COURSE CONTENTS

ANT310 Swimming

1+2 3.0

Teaching Phases in Swimming: Adaptation to Water, Respiration, Adaptation of Eyes, Floating, Advancing in water; Swimming Techniques and Analyses: Freestyle, Backstroke, Butterfly, Breaststroke; Rules of Competitions and officiating; Triathlon; Organization in Swimming; FINA; Dimensions of Swimming Pools; Biomechanics of Swimming.

BEÖ155 Physical Education

2+0 2.0

Definition of Physical Education and Sports; Aims, Disadvantages of Inactive Life; Various Activities for Physical Education; Recreation; Human Physiology; First Aid; Sports Branches: Definition, Rules and Application; Keep Fit Programs. Definition of Physical Education and Sports; Aims, Disadvantages of Inactive Life; Various Activities for Physical Education; Recreation; Human Physiology; First Aid; Sports Branches: Definition, Rules and Application; Keep Fit Programs.

ÇİN255 (Chi) Chinese I

3+0 4.0

Functions; Greetings, how do you do? Making an acquaintance; What is your name? Making an inquiry; When is your birthday? Where do you live? Phonetics; Phonetic alphabet, Initials, Finals, Tones, Spelling; Grammar; Affirmative and negative questions; Questions with interrogative pronouns? Sentences with adjectival predicate? with a verbal predicate? with a nominal predicate & with verbal constructions in series; The attributive genitive; The shi sentence? Ways to show the year, The month, The day and the days of the week; The question tag Haoma; You sentences; Prepositional constructions; Grammatical functions of time words; Adverbial adjuncts; Words of location.

ÇİN256 (Chi) Chinese II

3+0 4.0

Functions; Needs: I want to buy something, Making an appointment: Have you ever seen Turkey? Going to some places, Welcome; Reception; Let's have a toast! Grammar; Modal particle le Reduplication of verbs; Sentences with a subject-

predicate; Modal verbs; Sentences with a ditransitive verb; The modal verb hui; Numeral-measure compounds; Pivotal sentences; shi sentences; Complement of result; Preposition gei, Aspect particle guo, Sentences without a subject; Expression hai mei you ne, Alternative questions; Directional complement; Expressions yao le, shi de, Objects of cong and zai with zher & nar, Frequency degrees; Verb phrase or subject-predicate phrase.

ÇİN357 (Chi) Chinese III

3+0 4.0

Functions; Intation: Will you join us? Declination: I can't go; Apology: Regret: I haven't seen him; Praise: Great; Congratulation: Persuasion: Don't smoke, Comparison: It is colder today, Hobby: I like walking; Language: Speak slowly, Grammar; Continuous actions; Durational words or phrases; Aspect particle & verb le, Adjective hao, Adverbs jiu &cai Complements of Direction, Potential, Quantity & Duration, Pivotal sentence with rang Affirmative questions with shibushi, expressions of you you, yaoshi jiu & chu le yi wai kai & xia; youdianr as an adverbial adjunct; Sentences expressing existence; Use of duo, bi you & meiyou for comparison; Questions with ba.

ÇİN358 (Chi) Chinese IV

3+0 4.0

Functions; Travelling: Is the park beautiful! Are there any books? To see a doctor; I have a flu; To pay a visit; Are you better now? Departure; I'll return home, To give a farewell: We are sorry to let you go, Shipment; Is this the place for checking? To see someone off; Have a pleasant journey; Grammar: rhetoric questions with bushima, Duration of an action; Jian as a complement of result; Reduplication of adjectives & structural particle di ba sentences; Expressions yi jiu, youde youde & le jiu; Complex sentences with suiran,danshi &budan; Passive sentences; Verb dong as potential complement; Continuation & progression of an action; Use of buru for comparison.

ELE102 Basics of Electricity

2+2 3.0

Formation and Properties of Electricity; Basic Electrical Laws; Direct Current and Alternative Current Sources; Electricity-Work and Electricity-Power Relations; Transformers and Electrical Installation Schemes; Operations and Connections of Electric Motors; Equipments Used in Electrical Installations; Stable Electrical Plants; Energy Sources.

EMY225 Urbanization and Environment Problems

2+0 2.0

Urbanization; Causes of Urbanization; City Planning; Residence Policy: Slum House, Metropolitan territories planning; Metropolitan Management and Public Utilities; Metropolitan Management in Turkey; Environmental Urbanization; Environment and Envorinmental Problems; Envorinmental Pollution and Protecting.

ESTÜ1001 Story Analysis On World Literature

3+0 3.0

Introduction and Description of the Story: General features; Historical Development of the Story Genre: Classical story understanding and Maupassant style, Chekhov style; Basic Elements of Story Analysis: Person, Time, Place, Theme, Language and Style, Structural Analysis of the Story; Maupassant Style Story Analysis: Plot and classical narrative understanding; Chekhov Style Story Analysis: Mood, character-oriented narration and modern story understanding; Existential Story Studies: Existentialism and the individual's search for meaning; Story in Turkish Literature: Depiction of people, nature and daily life, Postmodern understanding of story, irony and narrator characteristics, Minimalist narration and distribution; General Discussion and Comparison of Stories.

ESTÜ1003 Yoga and Meditation

1+1 2.0

Definition Yoga and Meditation; Yoga and Meditation Benefits; Basic Purposes of Yoga: Breath, Body awareness, Balance; Basic Principles of Meditation; Basic Yoga and Meditation Exercises, Yoga Poses.

ESTÜ101 Introduction to University Life

0+1 2.0

Orientation: Concept of university and understanding of university, General information about Eskisehir, Education and student discipline regulations, Ethics at the university, National and international exchange programs, General services of university, Faculty/department orientations; Self-improvement seminars: Research projects, Entrepreneurship, Respect to diversity, Social gender, Leisure philosophy, Zero waste and sustainability, Career planning and mind mapping, Scientific thinking and observation, Barrier - free living, Carbon footprint, Start-up practices, Project based internship.

ESTÜ102 Negotiation Techniques Class

2+0 3.0

Basic Concepts: Communication, Communication Process, Individual Communication, Corporate Communication, Communication, Conflicts, Communication Tools, Communication Problems, Negotiation Process, Definition of Negotiation, Stages of Negotiation, Negotiation Process, Negotiation Problems; Conflict Management: Communication and Conflict, Types of Conflict, Conflict Management; Crisis Management: Crisis in Communication, Crisis Assessment, Types of Crisis, Crisis Management Plan, Examples of Successful Crisis Management; Negotiation, Social Media and Communication, Negotiation and Social Media, Communication Techniques in Social Media; Effective Communication and Negotiation

ESTÜ103 Ceramic Design Processes

Ceramic Design: Definition, Uses, Functions; Principles of Ceramic Design: Line, Color, Texture, Form, Scale, Direction; Analyzing of Design Methods Related to Ceramic; Prepare a Draft Study on the Subject; Prepare a Project With Designs; Determination and Preparation of Ceramic Sludge Types Used in Forming; Defined Production Methods and Knowledge Series Production Methods; Drying; Bisque Firing; Glazing and Glazed Firing.

ESTÜ104 **Academic and Life Skills**

2+1 3.0

Self-Awareness: Development of self, Early adulthood and self-concept; Values and Goals: Goal setting, Concreate goals and priorities. Considering resources; Effective time Management: Management and planning Definition of Stress; Psychological and Physiological Aspects of Stress; Emotions, Cognitive processes; Coping with Stress. Definition of Stress; Psychological and Physiological Aspects of Stress; Emotions, Cognitive processes; Coping with Stress.

ESTÜ105 Big Data Analysis with SQL 2+24.5

ESTÜ106 Proje Yönetimi

2+1 3.0

Project Management Fundamentals: Definition of project; Human Resources and Communication Management; Quality Management in Projects; Procurement Planning in Projects; Stakeholders Management; Gantt Chart; Causality Relationship Between Activities; SWOT Analysis; Planning of Risk Management in Projects; Project Compression Analysis and Cost Management; Project Resources and Resource Scheduling; Project Monitoring with Earned Value Management; Control and Progress in Line with the Objective of the Projects; R&D Sample Projects; Project Practices.

ESTÜ111 **Volunteering Works**

1+2 4.0

Management and Organization Concepts; The Concept of Volunteering and Volunteer Management; Fundamental Volunteering Areas (Disaster and Emergency, Environment, Education and Culture, Sports, Health and Social Services etc.); Project Development Related to Volunteer Work and Participation in Volunteer Work in the Field; Ethics, Moral, Religious, Traditional Values and Principles in Volunteer Work; Participation in Voluntary Work in Public Institutions, Local Governments and Non Government Organizations (NGOs); Risk Groups in Society and Volunteering; Immigrants and Volunteering.

ESTÜ112 **Cyber Security for Everyone**

2+0 2.0

Basic Concepts: Computer components and definitions; Software: System software, Application software; Computer Networks: Concept of Network and Internet; Malware and Network Attacks: Viruses, Attacks; Computer and Access Security: Password selection, File sharing, Backup; Internet security: SSL, Fake websites; Security on Social Platforms: Fake news and people; Security Analysis: System analysis, Network traffic analysis; System and Network Security: Network security, System security, Mobile device security; Information Security Management System: ISO 27001; Personal Data Protection Law: PDLP procedures; Information Technology Law: Information crimes and punishments.

ESTÜ113 **Design Thinking**

3+0 3.0

Design Thinking Concepts: Design thinking, Human-centered design, User research, Problem identification, Problem definition, Empathy, Idea development, Creativity, Idea elimination and selection, Low-precision prototyping, Highprecision prototyping, User tests, Usage tests, Usability, Revision and iteration, Visual thinking, User-centered design, Design processes and innovation, applications, Presentation techniques.

ESTÜ114 Visual Thinking

3+0 3.0

Visual Thinking Concepts: Concepts of abstract and concrete, Point, Line, Surface, Volume, Composition, Repetition, Rhythm, Hierarchy, Harmony, Contrast, Measuring and scale; Presentation Techniques: Sketch, Color, Tone, Order; Visual Perception and Gestalt Theory: Figure-ground relationship, Proximity principle, Similarity principle, Completion principle, Continuity principle, Simplicity principle, Depth perception, Psychological effect; Visual Communication: Image reading, Image interpretation, Pictogram, Ideogram, Logotype.

ESTÜ115 **Photographic Viewpoint**

2+1 3.0

Course Introduction: Project work; Research and Discussion of the Project Subject: Evaluation of research results, Successful examples from photography and graphic art, Examination of examples of selected works, Determination of application subjects, Discussion of application possibilities, Basic design elements and principles in photography and graphic design process, Trial shooting and evaluation; Light and Lighting: Color and functions of color; Photography Techniques: Visual editing, Reading photographs; Methods and Techniques in Applied Photography: Technical evaluation of photographs and development stages of the photographs; Basic Rules of Composition in Photography: Perspective, Balance, Proportion, Texture, Shape, Perspective, Lens selection and application; Shooting Process and Graphic Interventions on Photographs; Photographic View Methods: Evaluation of shooting results; Preparation of Portfolio: Portfolio evaluation, Presentation methods and techniques, Exhibition preparation methods.

ESTÜ116 Computer Aided Design I

3+0 3.0

Concepts of Computer Aided Design: Introducing to fusion360, Introducing interface, Surface modeling, Solid modeling; Basic Commands: Sketching, Editing, Constraints, Timeline, Parameter modification, Technical drawing; Construction Commands: Create, Inspect, Insert; Surface Modeling Tools: Creating and editing surfaces; Assembly: Adjusting, Arranging, Joint, Additional options; Freeform Modeling: T-Splines, Surface creation, Surface editing, Symmetry and tools; Visualization: Assigning material, Scene settings, Rendering methods; Various Applications.

ESTÜ117 Computer Aided Design II

3+0 3.0

Concepts of Computer Aided Design: Surface and solid modeling, Differences between surface and solid modeling, Surface creation, Arrangement; Sheet Metal Processing: Sheet metal processing creation and editing; Advanced Modeling Tools: Product part modeling; Introduction to Simulation: FEA simulation, Analyzing and interpreting simulation results; Generative Design: Generative design concept, Generative design tools, Simulating and evaluating generative design results; Manufacturing Tools: 3D printing, Introduction to CAM, Introduction to electronics.

ESTÜ118 Visual Thinking with Concepts

3+0 3.0

Visual Thinking with Concepts: Perception as ability to know, Change of senses; Seeing and time, Seeing depth, Understanding shapes; Visual Perception: Abstraction; Static and dynamic concepts of abstraction, Context, Comparison of perception, Similarities; Image and thought: Mental images; Particular and spiritual images, Abstraction of the image, Perceived quantities, Geometry and meaning; Writing and speech: Words as images, Intuition and cognition, Perception of words, Verbal concepts and pictorial concepts; Vision in Education: Images and art, Looking and understanding, Visual education tools.

ESTÜ119 Flute 3+1 3.0

Breath Work: Breathing exercises the diaphragm and correctly use various activation studies; Technical Studies: Stance, Grip, Position, Fingering and embouchure work; Learning the Notes on the Flute: Learning the notes on the flute with octaves, The octave positions of the lip according to the study, A long blowing sound with learned notes; Technical Development; Proper Studies to be Determined by instructor According to Student's Performance on the Scales: With learned notes, Sharp, Flat, Major and Minor, According to the ranking exercises scales; Flute Repertoire in the Context of Period, Style and interpretation: Selected works according to student performance from periods in music history.

ESTÜ120 Solfege 3+1 3.0

Octave of the Tone to be Specified According to The Groups; The Signs Used in Writing Music; Signs Spelling Rules; Staff and Additional Lines; Arrays and Intervals; Major and Minor Scales, İnterests, and Varieties: Natural, Harmonic, Melodic; Measure and Time; The Terms of the Transaction; Marks of Dynamics; The Expression of Terms; According to Student Level and Profile to be Created Reading Pieces by the Teacher; Reading with Piano Accompaniment; Rhythmic Perception and Rhythmic Reading, and Only Two Voice Dictation Skills; to be Able to Read on Different Keys, to be Able to Read Complex Rhythmic Pieces with Piano Accompaniment Two, Three, Four-Voices Dictation Skills; Ability to Read Ceremonial Solfege, Atonal Solfege.

ESTÜ121 Piano 3+1 3.0

Starting Position on the Piano: By taking into consideration to correct position of hands, Arms, Fingers, And feet; Technical Development Exercises: Etudes, Scales, Chords and arpeggios studies; Techniques of Touching Piano Keyboard, Staccato, Legato, Non Legato; Information About Dynamics; Working with Learning Notes and Octaves: One hand and double hand into small pieces-small parts; Style and in the Context of Your Comment Piano Repertoire: Baroque, Classical, Romantic, And modern Turkish composers will be given according to the performance of student works.

ESTÜ122 Guitar 3+1 3.0

Theoretical studies: Writings symbols used in music; Basic information About Solfege; The Structural Characteristics of the Guitar; Guitar History; Introduction to Guitar: Learning the notes on guitar; Learning the Names of the Right Hand and The Left Hand; Technical Exercises on the Guitar; Scales; Arpeggios; Slurs; Barres; Repertoire: Proper studies to be determined by instructor according to student's performance on the scales; To Recognition of the Different Disciplines During The Phase of Prima Vista; To Make Conscious About Playing Together; Improving to Stage Performance.

ESTÜ123 Gender Equality in Work Life

2+0 3.0

ESTÜ125 Philosophy of Science

3+0 3.0

The Emergence of Philosophy; Socrates and Post-Socratic Greek World; Epistemology: Types of knowledge, Knowledge criteria, The relationship between truth and reality; What is science?; Scientific method and process (1): Description, Explanation; Scientific method and process (2): Scientific law and theory; Scientific Objectivity and Historicity; Science and Logic: Deduction, Induction and Analogy; Validity Problems of Scientific Statements: Verifiability, Falsifiability,

Possibility, Necessity; Science, Nature and Society: Faith, Ideology, Scientific attitude, Paradigm, Distinction of the scientific from the unscientific.

ESTÜ127	Diction	1+2	3.0
ESTÜ129	Turkish as a Foreign Language I	2+0	2.0

ESTÜ131 Argentine Tango Dance

Turkish as a Foreign Language II

0+2 2.0

2.0

2+0

Introduction to the Course; General Information About Argentine Tango: History of Argentine Tango, Argentine Tango styles, Argentine Tango music; Fundamentals of Tango Salone Dance; Walking Exercises: Training-Dance grip, Individual-couple walking, Steady-paced straight walking with music, Stopping, Changing steps; Walking Exercises: Forward, Backward, Right, Left, Face to face-cross, Straight-circular, Rock steps; Walking Exercises: Improvised walking with music in various rhythms and tempos; Basic Combinations; Forward Ocho; Back Ocho; Parada; Sandwich; Ocho Cortado; Media Luna; Tango Events: Milonga culture; Improvisational application of all learned figures.

ESTÜ2001 AI Literacy

ESTÜ130

2+0 2.0

The general aim of this course is to provide undergraduate students from various disciplines with AI literacy. It enables students to understand the fundamental concepts of AI, recognize its applications in daily life and various sectors, use common AI tools effectively and responsibly, and critically evaluate the ethical and societal implications of AI technologies. The course aims to empower students to become informed citizens and adaptable professionals in an increasingly AI-driven world.

ESTÜ201	Turkish Sign Language	3+0	3.0
ESTÜ203	Introduction to Sociology	3+0	3.0
ESTÜ204	Effective Reading and Writing Skills	3+0	4.0

ESTÜ206 Financial Literacy

3+0 3.0

Key Issues in Financial Literacy: Money, Credit, Deposit, Interest; Conscious Use of Cards: Debit card, Credit card; Inflation and Its Effects on Our Lives; Personal Financial Planning: Spending, Saving, Investment, Budget; Investment Decisions and Investment Plans; Foreign Currencies and Foreign Currency Markets: Dollar, Euro, Pound Sterling; Precious Metals: Gold, Silver; Bonds, Bills and mutual funds; Stocks and Exchange Terminology; Private Pension System: Asset distribution, Participants' rights; Cryptocurrencies: Blockchain, Decentralized finance, NFT, Metaverse.

ESTÜ210 Culture of Museum

2+0 2.0

Definition of Museum, its origin and Types of Museums, the story of Archaeological Excavations in Turkey, Ottoman Museology and Antiquities Laws; The Establishment of Museology in Turkey and the works of Osman Hamdi Bey; The importance of Archaeological Museums in Turkey; Ruins (Open-Air Museums) in Turkey; Turkish and Islamic Arts Museums in Turkey, Methods of preserving and exhibiting works in museums; Ethnography Museums, methods of preservation of artifacts; Painting and Sculpture Museums, methods of preserving and exhibiting works; Museums of Urban History; Modern Museums; General evaluation of the course

ESTÜ301 Science Communication

2+0 3.0

ESTÜ401 Introduction to Professional Life

1+1 2.0

Information about PL, What is needed for PL?, Sector Meetings, 21. Century Competencies: Improving self-awareness, Basic communication skills, Problem solving, Decision making and leadership, Teamwork; Effective Interview Techniques

and Interview Simulation; Career Planning; Resume Preparation Techniques, Networking: Social networks for professional life; Project Management; Job Search Strategies.

ESTÜ402 Coaching and Leadership

3+0 3.0

Definition of Coaching; The Difference of The Coaching Profession from Other Specializations Is the Basic Coaching Session; Characteristics Of Coach; Harmony In Coaching Relationship; Different Learning And Experience Styles, Coaching And Leadership-Based Communication; Listening Deeply, Asking Strong Questions, Giving Feedback. Coaching Levels; Goal, Motivation and Action Steps, Goal Setting Coaching Tool; Circle of Life, Values Assessment Coaching Tool; Determination of Core Values, Leadership; Vision and Mission Work, Holistic Leadership; Life Purpose Study, Leadership Styles; Teacher, Visionary, Warrior, Wise, Nourishing.

ESTÜ403 Basic Computer Utilization

3+0 4.0

ESTÜ405 Computer Programming

3+0 5.0

Modern Computers: Data storage, Binary system, Computer architecture, Arithmetic and logical unit; Algorithm Concept:, Algorithm design, Flow charts; Python Basics: Python versions, Integrated development environments, First program; Basic Data Types: Numerical and logical data types, Dictionaries, Sets, Lists; Variables and Operators: Variables, Operators; Control Statements: Sequential Statements, Decision Control Statements, Repetitive Statements; Functions: Creating and calling functions, Arguments, Recursive functions; Object-Oriented Approach: Classes, Objects, Methods; File Operations: Opening file, Reading file, File methods; Graphical User Interfaces.

HTK406 Aviation Psychology

3+0 4.5

Definition of Aviation Psychology and History; Human Information Processing; Vigilance and Attention; Senses and Perception; Definition of Attention: Main factors affecting person's attention level, Attention in working group; Perception: Senses and functions of perception; Memory and Learning: Basic forms and types of memory; Definition of Motivation: Relationship between motivation and learning, Performance and attention; Personality: Definition, Developing stages, Personality disorders; Human Error and Decision Making; Communication: Various levels of communication, Communication practice in regard to preventing or solving conflicts; Stress Management Techniques.

HUK117 Fundamentals of Law

2+0 2.0

Systems of Law: The Turkish law system; Branchs and Sources of Law; The Turkish Judgement System; Judgement System and Types of Lawsuit; Legal Actions: Relationships and treatments; Personality Concept; Classified of Persons: Real and legal Persons; Efficiencies of Persons: Right efficiency, Action efficiency; Relationship, Residence; Inheritance Concept and Legal Inheritors; Rights, Examined of The Private Rights; Acquiring of Rights and Goodwill Rules: Losing and Protection of Rights and Proof Responsibility; Ownership Right, Purview and Types of Ownership Right; Obligation Concept and Types of Contract; Laws of Independent Accountancy and Financial Adviser.

HUK153 Fundamentals Concepts of Law

2+0 3.0

Social Rules and Law; Concept of Law and Legal Sanctions; Characteristics of Legal Rules; Sources of Law; Branchs of Law; Definition and Types of Legal Rights; Legal Capacity: As subject of rights, Capacity to act; Kinship; Domicile; Protection of Personality; Possession; Ownership; Obligation and Responsibility; Judiciary Systems.

HUK154 Commercial Law

2+0 3.0

Commercial Law Concept and Commercial Enterprise; Merchant; Commercial Name; Commercial Register; Unfair Competition; Commercial Reports; Merchant Assistant; Current Account; Partnership Concept; Definition and Elements of Partnership; Collective Partnerships: Establishment, Operation, Ending; Commanded Partnership: Establishment, Operation, Ending; Limited Company: Establishment, Operation, Ending.

HUK223 Labor and Social Security Law

2+0 3.0

Individual Labor; Law Labor Law; General Information and Characteristics of Labor Law; Historical Background of Labor Law in the World and Turkey, Explaining Basic Principles; Legal Regulations; Basics of Labor Law: Employers, Apprentice and trainees, Deputy employee, Secondary employees; Work Place and Organization; Definition of Contracts; Types of Contracts and Contract Obligations; Case Studies in Contract Services; Arrangements at Work Place; Periods of Work, Breaks, Paid Holidays and Inspection of Work; Collective Labor Law Regulating Formation of Unions, Collective Labor Contracts; Strike and Lockout; Collective Labor Agreements; Institutions Acting on Behalf of Employee and Employers; Labor Conflicts and Solutions, Social Security Law;, Universal Dimensions and Contemporary Trends in Social Security; Institutions of Obligatory Social Security in Turkey, Management of Institutions of Social Insurance, Social Insurance Institutions; Liabilities, Responsibilities of Social Insur

HYO111 Introduction to Civil Aviation

Terms/ Aviation terminology: Aviation Alphabet, Basic concepts, Codes of airport an airlines, Abbreviations, National and International Regulations, National and International Civil Aviation Authorities; Air Transportation Sectors: The general structure of the sector, Airlines, airports, Ground Handlings; Audits of Civil Aviation and Audit Procedures; travel Geography, Countries, Cultural diversity.

HYO227 Airport and Flight Security

3+0 3.0

Security Related Definitions; International and National Legislation on Aviation Security; Airport Security; Security areas and security measures; Passenger Terminal Security: Security systems; Human Factor in Aviation Security; Role of Cabin Attendants in Aviation Security: Cabin crew collaboration; Unlawful Acts: Bomb threats in aircraft, Detection of suspicious substances, Hijacking, Disruptive passengers, Sabotage and suicide attack; Aircraft Security: Preflight security check; Cockpit Security; Transport of Weapons and Explosives.

HYO303 Model Aircraft Constmetion

1+2 3.0

Introduction to Building Model Aircraft; Flight Principles of Model Aircraft; Major Parts of Model Aircraft: Wing, Structure, Landing gear, Tail, Flight controls, Engines; Types of Model Aircraft: Free flight models, Radio controlled models; Plans and Building Materials; Building Techniques; Flying Techniques.

HYO308 Organizational Behavior

3+0 3.0

Introduction to Organizational Behavior and Scientific Foundations of Organizational Behavior; Historical Development of Organizational Behavior; An Individual and Personality in Organization; Attitudes and Job Satisfaction; Foundations of Personal Differences, Biographical Characteristics; Abilities and Learning; Organizational Culture; Groups and Group Dynamics in Organizations; Working with Group Techniques and Participant Management; Motivation Process and Theories of Motivation; Leadership and Theories of Leadership; Conflict; Stress and Stress Management; Organizational Environment and Technology; Organizational Change; Organizational Improvement.

HYO451 General Aviation

3+0 4.5

Concept and Content of General Aviation; Development of General Aviation; Regulations in General Aviation; Practices of General Aviation in the World; General Aviation in Turkey: Training facilities, Air taxi operations, Aircraft rent, Corporate aviation, Personal and private purposes in general aviation, Sport, Demonstrational and promotional purposes in general aviation; Types of Aircraft Used in General Aviation; Future of General Aviation.

iKT120 Introduction to Economy

3+0 4.0

Economics Science and Main Concepts of Economics; Generation and Historical Evolution of Economics Science; Relations with Other Sciences and Importance in Everyday Life; Economic Organization and Basic Economic Systems; Supply and Demand Concepts in Macroeconomics; Factors Effecting Supply and Demand; Elasticity of Supply and Demand; Market Concept: Components, Types and competitive market; Utility; Consumer Equity; Identity Curve Analysis and Budget Line; Production Factors; Production Function Analysis and Cost Analysis; Pricing of Production Factors from Production Interest and Income Distribution; National Income from Macroeconomics Approach: calculating national ilncome; Money and Characteristics: Money types, Functions and policies of money; Economic Instabilities; Inflation; Unemployment and Cyclical Fluctuations; Growing and Development of an Economy; Panel Decisions and Applications.

iKT214 Transportational Economics

2+0 2.0

Basic Concepts: Demand, Asset-service; Production costs: Total, Variable, Constant, Marginal cost; Transportation Economy: Economical, social and political functions of transportation economy; Approach to Micro and Macro Economy: Demand and equilibrium in transportation; Properties of Transportation; Transportation subsystems; Transportation and Politics in Developed Countries, Benefit-Cost Analysis of Consistency of Transportation System Choosing; Interaction Between Transportation System and Environment; Traffic Accidents and Economical Losts; Economical Analysis of Transportation System in Turkey.

iKT228 International Economy

2+0 2.0

Economic Growth and International Trade: Globalization in World Economy; International Economic Integration; International Economic Policies; Trade Restrictions; Dumping; Export Subsidies; Foreign Exchange Markets; Balance of Payments; International Monetary Systems; International Credit Markets; International Monetary Fund and Turkey; International Investment Analysis.

iLT201 Interpersonal Communication

3+0 4.5

Verbal Communication; Speaking Skills As Dimension of Interpersonal Communication; Listening Capabilities As Dimension of Interpersonal Communication; Non-Verbal Communication; Signs And Meanings; Stress And Stress Management; Group; Group Dynamics; Small Group Characteristics; Persuasion; Speaking And Listening; Time And Time Management; Interpersonal Communication; History of Communication Research. Verbal Communication; Speaking Skills As Dimension of Interpersonal Communication; Listening Capabilities As Dimension of Interpersonal Communication; Non-Verbal Communication; Signs And Meanings; Stress And Stress Management; Group; Group Dynamics; Small Group

Characteristics; Persuasion; Speaking And Listening; Time And Time Management; Interpersonal Communication; History of Communication Research.

iLT303 Communication and Persuasion

3+0 4.5

Communication in organizations; Group Communication; Concept of persuasion, historical perspective of persuasion and theories of persuasion; Sources of persuasion in organizations, persuasion for organizational goals, management in organizations and persuasion, motivation in organizations and persuasion; Conflicts in organizations and persuasion, decision making in organizations and persuasion, leadership and persuasion, personality and persuasion; Persuasion tactics in organizations and persuasion, classification of persuasion tactics, types of persuaders and persuaded, bottom-up and top-down persuasion; Resistance to persuasion; Instruments and media used for persuasion in organizations; Barriers to persuasive process.

iLT356 Non-Verbal Communication

3+0 3.5

The concept of non-verbal communication; Importance of non-verbal communication in daily life; Communication environment; Effects of environment in human communication; The use of personal field in communication; Cultural differences in non-verbal communication; Effects of physical characteristics in human communication; Emotional expressions in non-verbal communication; Non-verbal speech and listening; Mimics, gestures, positioning, appearance, touching, facial expressions, eye movements and control of voice in non-verbal communication; Non-verbal communication skills in various contexts.

iLT363 Verbal Communication

3+0 4.5

Importance of speech in effective communication process; Meaning and definition of speaking: Speaking and the components of communication process; Types of speech; Elements of speech; Appropriate use of vocabulary, style, and language; Deciding on topics, goals, and argumentative styles; Public Speech: Perceiving the self and the others, benefiting from feedback, self-esteem and fear of stage; Listening activity: Listening for understanding; Types of listening and effective listening; Using materials during speech; Nonverbal communication and speaking; Speaking mistakes; Pronunciation errors, behavioral control; Analysis of effective and ineffective speeches.

iNG115 (Eng) English Speaking Skills I

1+1 2.5

Required phrases for everyday English; Greeetings, Introducing, Asking for and giving directions. Social Life: giving an order and paying the bill at restaurants, pubs and bars, Making reservations, shopping. Improvement of listening skills, Pronunciation: improvement of pronunciation and understanding.

iNG116 (Eng) English Speaking Skills II

1+1 2.5

Daily life and social expressions at advanced level. Asking for information about transportation. Various expressions for various situations. Expressions for formal/official situations. Asking for an appointment, job applications/interview, form filling. Formal and informal telephone conversations. Dealing with various accents and register, exercises to improve speaking skills, exercises on problematic sounds and words.

iNG187 (Eng) English I

3+0 3.0

Using Personal Pronouns and Possessive Adjectives; Using to be in Present Tense; Using Singular and Plural Nouns; Using Basic Language Related to Food and Drink; Using "There is-there are" in sentences; Using "have got"; Asking "yes-no" Questions and Giving Short Answers to Them; Talking about Daily and Weekly Routines; Talking about Likes and Dislikes; Talking about Sports and Hobbies; Talking about Abilities by Using "can", "can't"; Using Adjectives that Describe People; Talking about Appearance, Personality and Feelings of People; Talking about Clothes and Colours; Talking about Shopping and Prices; Using Present Continuous Tense.

iNG188 (Eng) English II

3+0 3.0

Using Simple Present Tense; Comparing Simple Present and Present Continuous Tenses; Using Prepositions of Time and Place; Giving Directions, Making Reservations; Using "to be" in Past Tense; Using Regular and Irregular Verbs in Simple Past Tense; Using Comparative and Superlative Form of Adjectives; Using Modals to Give Advice; Suggestions and Obligations; Using Future Tense: Making Sentences Using "going to" and "will"; Using If Clauses Type 0 and 1.

iNG217 (Eng) English Speaking Skills III

3+4 7.0

Improvement of listening skills, the importance of pronunciation in oral communication, presentation of communication skills and use of them effectively, utilizing effective tone of voice and body language, teaching vocabulary for, word formation and phrases required by cabin attendants.

iNG218 (Eng) English Speaking Skills IV

2+3 5.5

Improvement of listening skills, importance of pronunciation in oral communication, communication skills required in the professional area, improvement of English pronunciation, increasing the level of comprehensibility; words, phrases, and sentences required by flight crew in case of emergency.

iSN102 Public Relations 3+0 3.0

Fundamentals of Public Relations; Historical Development of Public Relations in Turkey and in the World; Development of Public Relations in Private and Public Sector; Career Development in Public Relations; Place of Public Relations Department in an Organization; Interdepartmental Public Relations; Research in Public Relations; Planning a Public Relations Campaign: Identifying problems, Determining objectives, Application and evaluation; Materials Used in Public Relations: Written, Audio-visual and other materials.

iSP154 (Spa) Spanish I

3+0 4.0

Saying hello, Introduction, Spanish Alphabet, Pronunciation exercises, Numbers in Spanish, Country names, Nationalities, Personal pronouns, Verb conjugations in Present tense, Use of Ser-Estar and Haber verbs, Demonstrative Pronouns, Grammatical Gender in Spanish, Asking for directions, Giving directions, Asking for time and telling time, Describing people and objects, Comparatives, Shopping, Imperative sentences in Spanish, Use of Poder, Gustar, Querer and Tener verbs, Vocabulary building: Objects in the classroom, Objects at home, Occupations, Food and description of clothes.

iSP255 (Spa) Spanish II

3+0 4.0

Polite requests, Asking for permission, Present Perfect tense, Past Perfect tense, Reqular conjugation of verbs, Irregular conjugation of verbs, Asking for opinions, Description of event and people in past tense, Talking about past habits, Future tense, Talking about future plans, Vocabulary building: Parts of body, Colors, Fruits and vegetables, Talking about health, Use of Ser and Estar verbs in Present Perfect and Past Tense, Use of past tense forms.

iSP257 (Spa) Spanish III

3+0 4.0

Regular and Irregular Verbs in Imperatives, Negative Forms of Imperatives, Verb Conjugations, Present Perfect Tense, Simple Past Tense, Past Continuous Tense, Past Perfect Continuous Tense, Verb Conjugations in all Tenses, The Use and Comparison of Past Tenses, Future Tense, Future Tense with 'ir+a infinitive', The terms of Traveling, Talking about Climate and Geography, Use of Gustar - Encantar - Odiar ? Preferir Verbs, Tambien - Tampoco, Ordering at a Restaurant, Conjunctions, Vocabulary Building.

iSP358 (Spa) Spanish IV

3+0 4.0

Introduction to Subjunctives; Verb Forms of Subjunctives; Verb Forms of Future Tense; Use of Future Tense; Making Suggestions; Accepting and Rejecting Suggestions; Analyzing Various Past Tenses; Verb Forms and Use of Perfect Subjunctives; Verb forms and Use of Present Perfect Tense; Verb Forms and Use of Perfect Modals; Vocabulary Building; Pair and Group Work for Spoken Spanish; Introducing Simple Reading Passages.

iST1012 Statistics 3+0 3.0

Basic Statistical Concepts; Concept of Variables: Scales, Rounding; Data Sources; Data Collection and Presentation: Population, Sample, Count, Randomness; Measures of Central Tendency: Mean, Mode, Median; Distributions: Range, Deviation, Standard Deviation, Variance, Coefficient of Variation; Basic Probability Distributions; Normal Distribution: Applications of Normal Distribution; Hypothesis Tests; Chi-Square Test; Correlation and Regression Analysis.

iST226 Operations Research

2+0 3.0

Introduction to Operations Research, Model Concept and Model Building, Optimization with Linear Programming: Graphic Method, Solution with Lindo, Transportation and Appointment Problems, PERT/CPM Network Models, Travelling Salesman Problems: Shortest path problem - Maximum flow problem, Queuing Models.

i\$L102 Management and Organization

3+0 4.0

Management: Definition, Significance of Management for Business Enterprises; Development of Management Science: Classical, Behavioral and Modern Theories; Management Systems; Decision Making and Planning; Concepts of Authority and Power: Characteristics of Authority and Power, Delegation of Authority; Organization: Characteristics and Principles; Comparison of Organization and Planning Processes; Departmentalization; Staffing: Fundamentals, Staffing Process; Leading: Fundamentals, Leading Process; Organizational Structures: Development and Varieties of Organizational Structures; Controlling: Fundamentals and Controlling Process.

i\$L155 Introduction to Business

2+0 3.0

Introduction to Business: Basic concepts, External environment of business enterprises; Structure of Business Enterprises; Foundations of Business Enterprises: Stages, Feasibility decisions; Functions of Business Enterprises: Management, Marketing, Production and financing; Cost Concept: Variable and fixed costs, Unit and total costs, Job order costing system, Process costing, Case studies.

i\$L212 Inventory Management

Inventory; Content; Inventory Management; Importance for Companies; Functions of Inventory; Inventory Control; The Purpose of Inventory Control; Inventory Systems; Inventory Costs; ABC Approach; Inventory Models; Effects of Discounts on the Costs of Inventory; Determining where to Order.

i\$L213 Human Sources Management

2+0 3.0

Introduction To Staff Management; Basic Functions; Organizing; Planning of Work Force; Methods; Planning Means; Work Analysis; Work Definitions; Work Necessities; Hiring: Finding; Selecting; Training; Staff Training; Methods; Principles; Evaluating; Staff Evaluating; Methods; Evaluation Mistakes; Discipline; Types; Forming The System; Punishment Application; Salary Management; Salary Methods; Staff services.

i\$L220 Labor Legislation

2+2 4.0

Constitution, Law, Covenant and Regulation Concepts; Labor Laws in History; The Aim and Scope of Labor Law No. 4857; Labor Agreement Types and Regulations Related to The Annulment of Labor Agreements; Wages in Labor Laws; Organization of Occupation; Regulations Related to Occupational Health and Occupational Safety; Social Insurance and Universal Health Insurance Law No. 5510; The Trade Unions Act No. 2821; Strike and Lockout Law No. 2822; Legislation Related to Civil Servants; Working Principles for Civil Servants.

iSL352 Organizational Communication

2+0 3.0

Definition and Significance of Organizational Communication; Functions of Organizational Communication; Organizational Communication Process; Channels of Organizational Communication; Communication Methods and Tools in Organizations: Organizational Communication and Managerial Function; Organizational Culture and Communication; Barriers to Organizational Communication; Developing Methods of Organizational Communication.

i\$L421 Entrepreneurship

2+0 3.0

Importance and Evolution of Entrepreneurship: Entrepreneurship within the framework of Manager, Concepts of Entrepreneur, Employer, Boss and Investor; Leadership in Entrepreneurship and Importance of Management Characteristics; Characteristics of Entrepreneurship; Changing Views of Entrepreneurship; General Evaluation of Entrepreneurship in Turkey: Change and Entrepreneurship; Entrepreneurship before and after the Republic; Female Entrepreneurs.

iTA255 (ita) Italian I

3+0 4.0

Sounds in Italian; Masculine and Feminine Definite Articles; Personal and Demonstrative Pronouns; Use and Conjugation of Verbs 'Essere? and 'Avere?; Introducing Oneself; Improving Reading Comprehension by means of Dialogs; Describing People; Days; Months; Years; Asking the Time; Ordinal and Cardinal Numbers.

iTA256 (ita) Italian II

3+0 4.0

Simple and Compound Prepositions; Past Tense and Conjugation of Verbs in this Tense; Transitive and Intransitive Verbs in Past Tense; Improving Reading Skills; Analyzing Paragraphs and Texts; Interrogatives: Asking Questions; Introduction to Italian Culture and Daily Language.

iTA357 (ita) Italian III

3+0 4.0

Imperfect Tense and Conjugation of Verbs in this Tense; Prepositions; Double Object Pronouns; Possessive Pronouns; The Use of Partitives 'Ci? and 'Ne?; Construction of Passive with 'Si!?.

iTA358 (ita) Italian IV

3+0 4.0

Future Tense; Future Perfect Tense and the Conjugation of Verbs in this Tense; Demonstrative Pronouns; Adverbs; Past Perfect Tense and the Conjugation of Verbs in this Tense.

JAP301 (Jap) Japanese I

4+0 4.0

Basic Verbs; Words and Sentence Structures Used In Daily Speech; Greetings; Meeting Someone new; Introducing Oneself; Asking For Price; Time Concept; Numbers; Verbs And Words About Traveling By Train And By Bus; Likes And Dislikes; Apologizing.

JAP302 (Jap) Japanese II

4+0 4.0

Introducing Oneself And One's Family; Ordering Food And Beverages In A Restaurant Or Cafe; Asking for the Bill; Meals And Expressions Used for Ordering Meals; Making A Reservation; Talking On The Phone; Asking For Information; Quantifiers; Demonstrative Adjectives; Talking About Past And Future.

JAP403 (Jap) Japanese III

Requests and orders for something, giving directions to a taxi driver, asking permission, refusal situations, family terms, giving advice, negative positions of like and dislike at simple present tense and past tense, desire-preference-like and dislike at adjectives and verbs, verbs used for public transportation.

JAP404 (Jap) Japanese IV

4+0 4.0

Guessing, expressing feeling about something, writing letter, situations at traffic, talking about business trip; direct and indirect verbs, modal of ability, basic conjunctions, negative positions at simple present tense, differences of -niwa and -dewa, -ta form at verbs, -te/de and -ku/ni form at adjectives.

LOJ103 Principles of Logistic

3+2 5.0

Logistic: Basic concepts, Significance; Supply Chain: Relationships, Management, Field of application, Movement and Stocking up the products in supply chain; Explaining Logistics within Networks of Physical Distribution and Supply Chain; Components of Logistic System; Outsourcing; Customer Satisfaction; Logistic Systems; Order Management and Customer Services; Protective Packaging and Material Handling; Stock Management: Principles of Stock Management: Distribution Centers and Stocking Up; Infrastructure and Management of Transportation: Delivering Products to Consumers from Production Line: Carrying Raw Materials to the Production Line: Efficiency: Cost Management.

LOJ104 Use of Computer in Logistic

3+0 4.5

Terminology; Local Area Network: Application and its Cost; Wide Area Network: Application Fields and its Cost; Internet, Transportation and Logistic Software: Application and its Cost; Softtrans: Application; Ulaşnet Project: Application; Custom-Edi Project: Application, Systems of Vehicle Follow up: Application in Turkey and the World.

LOJ108 Logistics Geography

2+0 4.0

What is Logistics Geography?; Impact of Geographic Factors on Logistics; Historical Development of Logistics on Geography; Logistics Geography of Turkey; Logistics Geography and Transportation; Logistics Geography and Location Selection: Market, Climatic conditions, Labor force, Incentives and infrastructure, Raw materials, Water, Land topography, Transportation, Energy.

LOJ110 Transportation Systems

3+0 3.5

Importance of Transport; Transport Sector and Its Development; Features of the Transport Sector; Transportation Costs; Transport Systems: Road, Rail, Sea, Air and pipelines; Definitions of Multi-mode, Intermodal, and Combined Transport; Main Functions of Intermodal Transport Chain: Load merge, Connections between transportation modes, Transmission and Distribution; SWOT Analysis of Transportation Modes; Specialization Competition Cooperation on Transportation and Factors Affecting the Selection of Transportation Mode; Transportation Vehicles; Ro-Ro, Piggyback Applications; Transportation with Towing, Transportation without Towing, Accompanied and Unaccompanied Transportation; Intermodal Transport Potential and Applications in Europe and Turkey; Rail and Road Connections of Our Ports in Terms of Intermodal Freight.

LOJ201 Technology Use in Logistic

2+0 2.

New Trends in Logistic; RFID Technology; RFID Labels: Passive: Semi-passive, Semi-active or Active; RFID Arrangements; Map Systems; Use of GPS; Routing with the help of GPS.

LOJ205 Management of Storage and Ware House

2+1 3.5

Storage Management; Logistic and Storage Management; Factors Affecting Effective Storage Management; Activities of Storage; Arrangements of Storage Placement; Identifying Dimensions of Storage; Use of Volume and Accessibility; Types of Pallets and their Configurations; Place of Pallets; Methods of Stocking; Measurement of Storage Performance; Productivity of Labor; Ratio of Space Use; Determining the Number of Workers; Cross Shipping; Physical Control and Security; Auditing Stock Records.

LOJ206 Practices of Logistic

0+6 6.0

Planning and Preparation Related to the Practicing Areas; Studies on Writing and Verbal Expressing; Practicing the Theoretical Logistic Knowledge; Practicing the Theoretical Purchasing Knowledge; Practicing the Theoretical Knowledge of Insurance Trade; Operating Logistic Firms; Reporting; Comparing the Logistic Practices of Different Companies.

LOJ211 Vocational English

2+0 3.0

Concept of Vocational English and its Importance in Practice; Terminology Used in Logistic; Practicing on Manuals by use of Translation; Practicing the Principles of Writing in Technical Reports; Writing a CV; Letters of Order and Formal Letters; Translation Practice with Vocational Texts; Preparing Documents; Writing Basic Formal Letters.

LOJ212 Logistics Management

2+2 4.0

Logistics Management Definition; Basic Logistics operations; Stock Management; Warehouse Management; Transportation Management and Mode of Transportation; Support Logistics Operations; Packaging; Customer Services; Other Operations;

Order Processing; Handling; Information Management; Demand Forecasting/ Planning; Services Support After Buy; Factory and Warehouse Facilities; Buying; Clearance; Waste Item Management; Marketing; Distribution Channels; Supply Chain Concept; Supply Chain Management; Unified Supply Chain Management Practices; Outsourcing; Third Party Logistics; Fourth Party Logistics; Inverse Logistics; Information Technologies and Logistics.

LOJ214 Logistics Costs Analysis

2+0 3.0

Logistics and Cost Accounting, Logistics Activities and Activity Based Costing System: Stock? Facility - Transfer Costing, Classification of Costs, Break Even Analysis, Variable-Standart-Order Costing Systems, Budgeting, Cost Analysis and Pricing Decisions, Supply Chain Costing, Win-Win Strategies, Data Requirement for Logistics Costing.

LOJ215 Supply Chain Management

3+0 4.5

The Concept of Supply Chain, Supply Chain Structure, Supply Chain Decisions; Supply Chain Management; Objectives of Supply Chain; Determination of Customer Needs; Understanding of Purchasing in Supply Chain Management; Contract Management; Supplier Selection and Performance Evaluation and Supplier Relations; Supply Strategy Determination in Supply Chain Management; Supply Chain Design, Planning, Operation and Control; Benefits of Supply Chain Management.

LOJ216 Transportation of Dangerous Substances

3+0 4.0

Definition of Dangerous Substances; Need for Transportation of Dangerous Substances; Major Types of Danger; Inspection and Environmental Protection in Dangerous Substances Transplantation; Importance of Dangerous Substances Related to Logistic Process; Packaging of Dangerous Substances; Marking of Dangerous Substances; Labeling of Dangerous Substances; Storage of Dangerous Substances; Freighting of Dangerous Substances; Transport of Dangerous Goods; Documentation of Dangerous Substances; Emergency Procedures about Dangerous Substances; Regulations Related to the Transport of Dangerous Substances by Seaway, Airline, Railroad; Transport Methods and Principles of Combined Transport of Dangerous Substances; Classification of Dangerous Substances; Parties in the Transportation of Dangerous Substances and Responsibilities of the Parties.

LOJ217 Transportation Management

3+0 4.0

Transportation and Logistics; Determination of Customer Needs; Passenger-Load Transportation; Modes of Transportation: Airway transportation, Land transportation, Railway transportation; Sea Route Transportation; Transportation Management, Organization and Planning; Sender and receiver parties, Evaluation of vehicle-load-route, Time-cost analyses, Performance, Pricing, Human resource management, R&D, Quality management systems; Legal Charges and Legal Frame; The European Union Legislation: Legislations Regarding Highway-Airway-Sea Route and Railway Transportation; Arrangements about Transportation;

LOJ218 Custom and Transit Transactions

2+0 4.0

Basic Concepts of Customs; Customs Duties; Funds; Definition of Summary Declaration; Filling out a Summary Declaration: Document, Responsible department, Transportation department, Reference department; Summary Declaration Registration and Approval; Computerized Customs Activities and Electronic Data Interchange System; E-Customs and Foreign Trade in Turkey; Computerized Customs Activities System, Customs (Import) and Output (Export) Operations; Electronic Data Interchange (Electronic Data Interchange) EDI; Customs Operations Related to Goods, Customs Declaration, Points to Consider in Filling out a Declaration; Customs Declaration in Import and Transit Trade and Documentation to be Added; Modifications on the Declaration; Registration and Approval Process of the Declaration; Physical Examination Procedures for Goods.

LOJ219 Logistics Law and Documentations

3+0 4.0

Concept, Content, and Resources of Logistics Law; Settlement of Legal Disputes in Logistics; Harmonisation of Legal Regulations with the European Union; International Logistics Legislation; Obligations of Logistics Enterprises; Rules for Enterprises; Closing of Logistics Enterprises; Global Economy Process and Its Reflections on Customs; Vehicles' Entrance into and Exit from Customs Territory of Turkey; Turkey Customs Document; Compulsory Route; Customs Surveillance; Customs Controlling; Entry of Vehicles and Goods into the Customs Territory of Turkey; Submission of Goods to Customs; Summary Statement of Operations; Empty Vehicles; Unloading Vehicles; Temporary Storage and Storage Areas; Customs Tariff; Prohibitions and Restrictions; Customs Regimes; Free Zones; Re-exportation, Destruction and Abandonment; Specific Operations in Customs.

LOJ220 Integrated Logistics Management

2+0 4.0

Basic Concepts; Retail Logistics; Food Logistics; Textile and Apparel Logistics; Logistics for Electronic Products; Automotive Logistics; Project and Construction Logistics; Tourism Logistics; Hazardous Material Logistics; Exhibition and Event Logistics; Pharmaceutical and Hospital Logistics; Waste and Recycling Logistics; Transport of Live Animals; Humanitarian Logistics; Multi-mode, Intermodal, and Combined Transport Concepts; Main Functions of Intermodal Transport Chain: Load merge, Connections between transportation modes, Transmission and Distribution.

LOJ221 Railway Transportation

3+0 3.0

Passenger Transportation; Mainline Passenger Transportation; Arrangement of All Tickets Used in Railway Transportation; International Passenger, Railway Organizations That Regulate the Legal Regime on Luggage and Freight Transportation; Contract Related to International Railway Transport and General Terms of Passenger Transport; Transport Agreement; Tickets Used in International Railway Transport; Definition and Regulation Cards; Relations between International Passenger Luggage Transport and Railway; General Terms of International Luggage Transport: Fulfillment of administrative procedures related to the recognition and issuance of transport documents; International Tariffs; Pricing in Freight Transport via Railway and Freight Payment.

LOJ223 Combined Transport

3+0 3.0

Basic Concepts; Combined Transport in the World and in Turkey; Railway Goods Transport: Definitions, Structure and operating modes, Intermodal transportation; Performance Criteria in Railway Transportation of Goods; International Delivery Methods; Parties in Railway Transportation; Railway Transportation of Goods in International Organizations; International Documents, Pricing and Freight Payment in International Goods Transportation; Insurance and Liability; Railway Cars: Types, Characteristics and Marking; Types of Goods and Principles of Loading; Railway Car Wafering; Integration of Seaway and Railway; Projects Related to the Integration of Combined Transport in Turkey; Regulatory Rules in the UN and EU.

LOJ225 Transportation Liability and Insurance

3+0 3.0

Risks of Institutions in Logistics and Supply Chain; Safety Requirements for Goods in All Modes of Transport and Storage Areas;; Sharing Risk by Insurance; Requirements for Elimination of Liability against Third Parties; Requirements for Transportation Insurance of Annual Subscription; Investigation of the Aspect of Insurance in Legal Restrictions Related to International Transport.

LOJ227 Terminal Planning

3+0 3.0

Introduction to General Functioning of Terminals; Port Ownership; Railway Terminals Maneuver Areas; Transfer Terminals; Marine Terminals: Ports and Docks; Container Ports and Terminal Operations; Port Management in Container Dock; Storage Area Management in Container Ports; Air Terminals; Overview of Air Terminal Management; Key Actors in Airline Terminal Management; Relationship between Airline Authority/Operators/Regulators and Airline Companies; Changing Trends in Airline Terminal Management; Pipeline Terminals; Terminal Management Decisions; Location of Terminal Facilities; Equipment Selection and Development; Terminals in Turkey and around the World.

LOJ229 International Logistics and Trade Organizations

3+0 3.0

Introduction to International Logistics; Differences Between National and International Logistics; International Logistics Network; Role of Logistics in the Global Strategy Development; International Market Entry Strategies; International Logistics Operations and Services; International Logistics Transportation, Storage, Distribution Centers, Ports, Customs; International Outsourcing of Logistics; International Logistics Support Organisations; Documentation in International Logistics Operations; Global Supply Chain Strategy; Transportation Performance Analysis; Shipment and Shipment Planning, Transportation Management and Information Systems; International Logistics Activities Affecting International Trade Organizations.

LOJ231 Organizational Behavior

2+0 3.0

Basic Concepts About Organizational Behavior; Historical Development of Organizational Behavior; Individual and Personality; Emotion, Attitudes and Job Satisfaction; Organizational Culture; Leadership; Organizational Conflict and Stress; Organizational Justice; Organizational Trust; Organizational Commitment; Organizational Citizenship Behavior; Positive Psychological Capital; Emotional Labor; Organizational Silence; Burnout Syndrome; Intention to Leave.

MAK252 Energy Management

1+1 2.0

General Energy Situation of Turkey; Structure of Turkish Industry; Consumption of Energy; Energy Management; Measurement Instruments and Measurement Techniques; Rising Productivity of Energy in Cauldron; Electricity Systems: Economy of Energy in Lighting; Methods of Economic Analysis; Environment; Alternative Energy Sources; Compound Heat Power Production Systems; Environment Laws; Heat Production Systems; Power Production Systems; Source of Energy: Coal, Petroleum, Natural gas, Hydraulic energy, Electric energy.

MAT1001 Mathematics I

3+0 4.0

Sets, Real Number Sets, Intervals, Exponentials and Radicals; Identities and Factorization, First and Second Degree Equations and Inequalities; Functions: Concept of a function, Operations with functions, Graph of a function; Linear Functions: Equation of a line, Analytical investigation of lines; 2nd Degree Polynomial Functions: Parabola; Rational, Algebraic and Trigonometric Functions; Inverse Function, Exponential and Logarithmic Functions.

MAT1002 Mathematics II

3+0 4.0

Limit and Continuity; Derivative: Definition of derivative, Tangent line, Properties of the derivative, Chain rule; Derivatives of Polynomial, Rational, Exponential and Logarithmic Functions; Applications of Derivative: Increasing and decreasing functions, Local extremum points, Concavity, Plotting Graphs; Integral: Definite integral, Areas of plane regions; Indefinite

Integral; Properties of Integral, Integrals of Polynomial, Rational, Algebraic, Exponential and Logarithmic Functions: Change of variables, Integration by parts, Partial fractions; Surface Area and Volume; Matrices and Determinants; Solutions of Linear Systems of Equations.

MEK103 Vehicle Mechanics

3+2 5.0

Technological Revolution of Vehicles; Motorized Vehicles; Specifications of Motorized Vehicles; Resistance Forces Affecting Vehicle; Relationship of Air Resistance and Speed; Motorized Vehicle Systems; Linear Control of Vehicles; Mobility of Vehicles; Vehicle Types; Safe Brake Distance of Vehicles; Curve Balance; Forces Affecting Vehicle in Curves; Brake Mechanics; Adhesion Concept and Road-Tire Adhesion; Characteristic and Critical Speeds; Differences Between Blocking Types.

MEK104 Statics Strength of Materials

3+0 4.5

Introduction to Mechanics; Static of Rigid Materials; Truss Systems; Distributed Forces; Center of Gravity; Analysis of Structures; Forces in Beams and Cables; Method of Virtual Work; Friction; Mechanical Properties of Materials; Linear Elasticity; Hooke's law; Moments of Inertia; Bending Moment.

MEK211 Soil Mechanics

3+0 4.0

Physical and Index Properties of Soil: Gravity-volume relations, Viscosity limits; Classification of Soil; Water Currents on Soil: Permeability and leakage; Stress-Deformation Relation in Soil Block; Compaction; Squeezed Soil: Consolidation settling and sudden settling; Gliding Resistance of Soil; Ground Pressure; Soil Carrying Capacity for Superficial Foundation.

MLZ104 Handling

2+2 3.0

Atomic Construction; Composition and Properties of Atoms; Handling Concept; Construction Errors in Handling; Tests on Handling; Mechanical Tests and Characteristics; Deformation; Metallography; Preparing Samples and Microscopic Examination; Operations to Increase Handling Resistance; Thermal Processes; Steels; Cast Iron; Alloys: Aluminium, Titanium and copper alloys.

MUH151 Introduction to Accounting

3+0 4.5

Concepts of Business and Accounting; Financial Transactions; Balance of Assets-Liabilities; Balance Sheet and Income Statement; Accounts: Concept of account, Types of accounts, Account chart; Document and Books; Accounting Process; Follow up Goods Transactions: Inventories and transactions of the purchase and sale of goods, Periodic inventory system, Perpetual inventory system; Liquid Assets: Cash, Banks, Checkups; Marketable Securities: Share certificates, Bonds; Receivables: Trade receivable, Other receivable; Long Term Assets; Liabilities; Shareholders Equity; Transactions of Income and Expenses; End of Period Transactions; Preparing Financial Statements and Closing Transactions. Concepts of Business and Accounting; Financial Transactions; Balance of Assets-Liabilities; Balance Sheet and Income Statement; Accounts: Concept of account, Types of accounts, Account chart; Document and Books; Accounting Process; Follow up Goods Transactions: Inventories and transactions of the purchase and sale of goods, Periodic inventory system, Perpetual inventory system; Liquid Assets: Cash, Banks, Checkups; Marketable Securities: Share certificates, Bonds; Receivables: Trade receivable, Other receivable; Long Term Assets; Liabilities; Shareholders Equity; Transactions of Income and Expenses; End of Period Transactions; Preparing Financial Statements and Closing Transactions.

MÜZ151 Short History of Music

2+0 3.0

Mile Stones in the History of Music; Music of the Antique Period; Music of Far East; Music of Anatolia; Music of the Middle Ages: Gregorian Chants; Music of Renaissance: Bach and Handel; Music of the Classical Age; Pianoforte in the Classical Age; Romantic Age; Nationalist Movement; Contemporary Music; Nationalism and Universality.

MÜZ155 Turkish Folk Music

2+0 2.0

Folk songs from different Regions of Turkey are Taught; Aegean Region Zeybek Folk Songs: Eklemedir koca konak, Ah bir ateş ver, Çökertme, Kütahya'nın pınarları, Çemberinde gül oya; Kars Region Azerbaijani Folk Songs: Bu gala daşlı gala, Yollarına baka baka, Dağlar gızı Reyhan, Ayrılık, Dut ağacı boyunca; Central Anatolian Region Folk Songs: Seherde bir bağa girdim, Uzun ince bir yoldayım, Güzelliğin on para etmez, Mihriban ve Acem kızı; Southeastern Anatolian Region; Urfa and Diyarbakır Folk Songs: Allı turnam, Urfanın etrafı, Mardin kapısından atlayamadım, Fırat türküsü, Evlerinin önü kuyu; Blacksea Region; Trabzon, Rize, Artvin Folk Songs: Maçka yolları taşlı, Ben giderim Batuma, Dere geliyor dere.

MÜZ157 Traditional Turkish Art Music

2+0 2.0

Description of Traditional Art Music: Basic concepts, Characteristics, Types, Notes, Instruments; The Mode System of Traditional Turkish Art Music; The Rhythmic Pattern of Traditional Turkish Art Music; Samples from Different Modes; Samples from Different Rhythmic Patterns.

PSi203 Traffic Psychology

2+0 2.0

Basic Behavior and Learning Concepts in Psychology; Behavior Concept; Learning Concept; Test of Learning a Concept; New Behavior Learning; Classical Conditioning; Control-Punishment Relationship; Importance of Psychological Education in Traffic; Control and Application Techniques in Traffic.

PSi208 Conflict and Stress Management

3+0 5.0

Stress Concept and Effects on Human Body; Psychosomatic Stress Model; Stress and Personality; Different Types of Behaviors; Stress Symptoms and Effects; Attitude Stress Symptoms; Psychological Stress Symptoms, Stress Resources; Personal Strategies in Stress Management; Managers' Duties in Decreasing Organizational Stress.

PZL241 Industrial Marketing

2+0 2.0

Industrial Marketing; Industrial Markets and Products; Nature of Industrial Markets; Examining Industrial Market Opportunities; Industrial Market Segmentation; Models of Industrial Buying Behavior and Factors Affecting Purchasing; Designing and Managing Industrial Marketing Mix; Planning and Developing Industrial Products; Industrial Pricing, Marketing Channel and Promotion Strategies; Gaining Customers and Establishing Long-term Relationship with Buyers; Case Study.

PZL302 Marketing Management

3+0 4.5

Concept of Marketing; Evolution of Marketing; Functions of Marketing; Environmental Conditions of Marketing; Marketing Information Systems and Marketing Research; Market Concept; Market Segmentation and Target Market Selection; Customer Behavior in Industrial Markets; Product; Price; Distribution Channels and Physical Distribution; Sales Promotions; International Marketing. Concept of Marketing; Evolution of Marketing; Functions of Marketing; Environmental Conditions of Marketing; Marketing Information Systems and Marketing Research; Market Concept; Market Segmentation and Target Market Selection; Customer Behavior in Industrial Markets; Product; Price; Distribution Channels and Physical Distribution; Sales Promotions; International Marketing.

PZL401 Marketing

2+0 3.0

Marketing Concept and Understanding of Modern Marketing; Environmental Conditions in Marketing; Marketing Information System; Consumption and Purchasing Behavior in Industrial Markets; Market Division and Choice of Market; Product: Product concept, Classification of products, Product groups, New product concept, New product development alternatives, Product life curve, Product properties; Distribution Channel and Physical Distribution; Effort to Increase Price and Sale; International Marketing.

PZL456 Services Marketing

3+0 4.5

Distinctive Aspects of Services: Characteristics of services, Classification of services; Services and Environment; Marketing Mix for Services: Service as a product; Distribution of Services and Services Intermediaries; Pricing Services and Yield Management; Promoting Services; Human Factor in Service Sector: Importance of personnel, Human resource management, Role of customer in service Production Process; Management of Demand and Capacity in Service Sector; Service Quality: Dimensions of Quality, Measurement of Quality, Gap Model of Quality, Approaches for Quality Improvement, Relationship Marketing: Strategies for Retaining Customers; Internationalization of Services. Distinctive Aspects of Services: Characteristics of services, Classification of services; Services and Environment; Marketing Mix for Services: Service as a product; Distribution of Services and Services Intermediaries; Pricing Services and Yield Management; Promoting Services; Human Factor in Service Sector: Importance of personnel, Human resource management, Role of customer in service Production Process; Management of Demand and Capacity in Service Sector; Service Quality: Dimensions of Quality, Measurement of Quality, Gap Model of Quality, Approaches for Quality Improvement, Relationship Marketing: Strategies for Retaining Customers; Internationalization of Services.

RAY101 Introduction to Railway Transportation

3+0 5.0

Importance and Role of Railroad Transportation; Classification and Features of Trains; Stations and Switches; Signs; Train Traffic Administration Systems; Passenger and Goods Transportation Operations; Safety Systems; Communications Systems; Electric Power Transmission Systems; Signs and Facilities on the Way; Classification and Features of Locomotives and Cars; Classification of Railways; Infrastructure and Superstructure on Railways; Switches; Basics of Railroad Projects and Track Maintenance.

RAY1012 Basic Computer Programming

1+2 3.0

Developing Algorithms; Designing Algorithms with Flowcharts and Pseudocode; Performing User Input and Output; Learning Basic Data Structures and Defining Variables with Them; Using Conditional Control Structures; Using Operators; Lists, Tuples, and Dictionaries; Using Loop Constructs; Designing Functions; Modules; File Input/Output Methods; Iterators and Generators; Debugging.

RAY102 Railway System Traffic

3+0 4.0

Information about Trains and Other Railway Vehicles; Signs and Signals in Railways; Importance of Signs and Signals in Railway Transportation; Regulations and Crisis Management in Breakdowns and Disorders; Classification of Railway Vehicles; Preparation of Trains for Departures; Regulations for Railway Traffic.

RAY103 Work Safety

2+0 3.5

Basics of Work Safety; Environmental Threats; Biological Threats; Chemical Threats; Physical Threats; Concepts for Safety at Work Places; Proactive Safety Regulations; Analysis and Classification of Accidents; Injuries and First Aid; Reports of Accidents; Fire; Work Safety Regulations

RAY105 Introduction to Locomotive Electrical Systems

3+1 4.0

Electromechanical Systems: Definition, Block diagram, System components; Switching Elements: Structure, Symbols, Working principles; Package Type Switches; Buttons; Sensors; Limit Switches; Electromechanical Switching Elements: Relays, Contactors; Common Locomotive Equipment; Diesel Electric Locomotives: Electrical diagram, Electrical equipment and its components, Control and safety systems; Starting and Charging Systems of Diesel Engines and Their Failures; Electric Locomotives: Electrical diagram, Power transfer, Electrical equipment and its components, Control and safety systems; Electrical Diagram of Diesel Electric Rolling Stock; Electrical Principles of Rolling Stock Used in Urban Transport.

RAY107 Transportation of Dangerous Substances

3+1 4.0

Definition of Hazardous Substances; Necessity of Transportation of Hazardous Substances; Classification of Hazardous Substances; Major Types of Hazards; Inspection of Hazardous Substance Transportation and Environmental Protection; Packaging of Hazardous Substances; Marking and Labeling of Hazardous Substances; Storage of Hazardous Substances; Freighting of Hazardous Substances; Transport of Hazardous Goods; Documentation of Hazardous Substances; Emergency Procedures about Hazardous Substances; Regulations Related to Transportation of Hazardous Substances by Sea, Airline, Railroad; Methods and Principles Related to the Combined Transport of Hazardous Substances; Parties in the Transportation of Hazardous Substances and Responsibilities of Parties.

RAY115 Scientific Principles of Technology I

2+0 2.0

Measurement and Unit Systems; Scaler and Vectoral Quantities; Kinematics: Velocity, acceleration; Dynamic: Work, power and energy; Friction Between Surfaces; Momentum and Collision; Stress and Strain Forces; Equilibrium and Center of Gravity; Electric Fields; Electric Potential; Capacitor, Electric Current; Magnetic Field and Sources; Electromagnetic Induction; Chemical Effects of Electric; Characteristics of Light.

RAY116 Scientific Principles of Technology II

2+0 2.0

Fluid Mechanics; Fluid Characteristics: Types of fluids, Density, Pressure, Monometers, Viscosity, Properties of fluid flow, Continuity principle of flow, Equality of energy and friction losses; Heat: Thermometer and temperature scales; Heat and Thermal Energy; Heat Capacity and Specific Heat; Heat Transfer Concept and Heat Transfer Mechanisms: Conduction, Convexion, Radiation; Heat Transfer Equipments and Principles of Studying; Energy Sources: Fossil sources, Fresh energy sources.

RAY120 Train Mechanics

2+2 3.0

Properties of Locomotives and Cars; Determining Speed For Trains with Load Types and Amounts; Determining Trip Time; Introduction of Equipment Used in Cars: Strings; Strength of Power Required for Cars? Strings in Straight and Hooked Areas; Harness Equipment and Location of Rantor Locomotive According to the Earth Surface; Types of Brakes: Electric and pneumatic brakes, Stopping distance; Relation of Locomotive?s Power and Load; Pulling Power and Junction Points.

RAY126 Circuit Analysis

4+2 6.0

Circuit Theory; Ohm's Law; Electric Current; Resistivity; Voltage; Electrical Power and Energy; Equivalent Resistance; Current and Voltage Division; Dependent and Independent Voltage and Current Sources; DC Circuit Analysis Methods; Kirchhoff's Laws; Mesh Current Method; Node Voltage Method; Source Transformation; Superposition Method; Thevenin and Norton Equivalent Circuits; Capacitors; Electric Field; Capacitance; DC RC Circuits; Inductors; Magnetic Flux and Faraday's Law; Inductance; DC RL Circuits; Alternating Current; Amplitude; Frequency; Phase; Power in AC circuits; RL; RC and RLC circuits in AC; Phase Diagrams; Reactance and Impedance; Transformers.

RAY128 Introduction to Business

3+0 3.5

Concept of Business: Economic systems, Factors of production, Needs and wants, Demand, Goods and services, Consumption and consumer; Success Criteria: Efficiency and related concepts; Establishment of Enterprises: Initial establishment studies, Establishment stages, Feasibility decision; Business Growth: Internal growth, External growth; Functions of Business: Planning function, Organizing function, Execution function, Control function, Accounting function; Production Systems and Management in Enterprises; Multinational Enterprises.

RAY130 Introduction to Machines

2+2 3.5

Definitions and Classification of Machine Elements; Connection Elements of Machines; Demountable Connection Elements; Surmountable Connection Elements; Mobilized Connections; Lubrication (Tribology), Power and Transmission Systems; Brakes; Lifting and Moving Components; Hydraulics Systems; Pneumatics Systems; Components used in Fluid

Transmission: Pipes, Hoses and Joints; Transforming Components of Linear Motion to Angular Motion and Angular Motion to Linear Motion.

RAY132 Construction Materials

2+0 2.0

Definition and Historical Development of Materials; Natural Stone as an Element of Construction Materials; Aggregates: Classification, Physical properties, Screen analysis and combination of aggregates, Granulometry, Properties of aggregates used in foundation construction, Properties of bitumen aggregate, Experiments applied to aggregates; Binding Materials: Plaster; Lime; Cement, Properties of cement; Mortar and properties; Concrete: Properties of concrete, Mixture ratios for concrete materials; Bitumen Binders: Basic properties of asphalt, Experiments applied to asphalt; Metals, Woods, Glass, Plastic Materials.

RAY148 Railway System Traffic I

3+0 4.0

Enumeration, Denomination and Classification of Trains and Related Plants; Train Speed; Preparation of Trains; Passenger Cars and Cold Locomotives in Trains; The Number, Length, Weight and Testing of Axles of Trains; Locomotives and Supporting Operations in Trains; Number of Personnel Working in Trains and Required Equipments; Brake Types, Need for Braking, Brake Calculation; Brake Testing of Trains.

RAY201 Urban Railway Transportation Systems I

3+0 4.0

General Definitions and Concepts about Urban Railway Transportation Systems; Importance and Kinds of Urban Railway Transportation Systems and Planning of These Systems; Defining the Vehicles Used in These Systems, Features and Repair of These Vehicles; Data Processing Systems in Urban Railway Transportation; Working Principles; Signs and Signals for the Information Processing System.

RAY202 Urban Railway Transportation Systems II

3+0 4.0

Type, Class and Speed of Trains Used in Urban Railway Transportation Systems; Planning of Traffic and Rules of the Regulation; Checking Vehicle Navigation; Facilities Providing the Safety of Control Systems; Maintenance and Repair of these Facilities Preparing All Vehicles for Traffic; Rules for Urban Railway Transportation Systems.

RAY203 Basics of Engine

2+2 4.0

Transformation of Alternating Linear Motion to Circular Motion; Compressing Proportion Concept; Valve Setup Diagrams and Engine Diagrams; Diesel Engines and Gasoline Engine Components; Operating Principles; Compound Proportions; Fuel Systems; Stroking and Reasons; Power and Efficiency; High pressure Pipes and Injectors; Lubrication Systems; Cooling Systems; Supplementary Parts of Engines.

RAY204 Railway Cars

2+2 4.0

Position of Passenger and Load Cars in National and International Transportation and Regulations; Passenger Cars, Load Cars, Types of Cars; Loading and Unloading Methods; Measurements and Interpretation; Types of Loading; Conditions of Passenger cars; Teaching Signs and Numbers of Trains and Rolling Stock; Parts of Cars and Their Functions; Containers.

RAY206 Trains and Roundhouses

2+2 4.0

Calculations About Rolling Stocks and Hauled Vehicles: Calculations for passengers carried on railways, Calculations for passengers on urban railway transportation system, Load calculations on railways; Revision and Maintenance Programs of Rolling Stocks; Calculation Planning of Rolling Stock Drivers; Evaluation of Rolling Stocks; Planning of Periodic Maintenance of Rolling Stock Depots, Round House Plan, Organization and Process of Rolling Stock Maintenance; Economy of Passenger and Load Transportation: Development of passenger and load transportation for GSMH increase and determination of needs, Intervention of round houses to railway accidents and taking steps.

RAY207 Electric Engines

2+2 4.0

Operation Principles of Direct Current Machines; Structure; Elements; Their Operation As an Engine And A Generator; Maintenance; Driver Circuits; Monophase and Triphase Induction Machines; Synchroneous Machines; Synchronic Induction Machines; Step Machines and Their Operational Principles, Structure, Elements, Operation, Maintenance; Driver Circuits.

RAY208 Basics of Brake

2+2 4.0

Production and Use of Compressed Air; Brake Types; Brake Influence; Brake Hardware; Perception System; Supplementary Brakes and Elements; Determining Failures in System and Repair; Differences Between Basic Line Railway Engines and Maneuver Railway Engines Brakes Hardware; Testing Brake Hardware in Railway Cars and Engine Line.

RAY209 Energy Plants

2+2 4.0

Diesel and Electrical Locomotives; Diesel Engines; Operating Principles: Maintenance and operating; Electrical and Engines and Generators: Types, Operating principles, Running and maintenance; DC, AC Current Sources; Accumulators, Structure, Running, Maintenance; Invertors and Converters; Tests and Measurements in Energy Plants.

RAY211 Electrical Management Plants I

2+2 3.0

Establishing Stationary Electrical Management Plants, Maintenance and Repairs; Necessary Road Plans and Data for Electrical Management Plant Projects; Route and Station Plants Tunnel and Over-Crossing Plants; Speed, Pantograph, Width, Determining and Planning electrical management plant feeding System; Posts and Foundations; Railway Electrification.

RAY212 Electrical Management Plants II

2+2 3.0

Preparation and Interpretation of Installation Report Cards; Protection and Grounding; Interpretation of Grounding Plan; Transformer; Characteristics of Machines; Energy Determination, Voltage Determination and Equipment Selection; Systems and Equipments of Remote Control; Transformer Construction; Operation and Maintenance of Electrical Facilities.

RAY213 Communication Technology

2+2 3.0

Communication Systems and Their Principles; Examining Signals in Time and Frequency Regions; Modulation; Cordless and Cord Communication Systems; Filters; Multiplexing and Demultiplexing; Transmission Errors: Noise, Signal Weakness; Removing Transmission Pipes; Maintenance and Repairing.

RAY214 Communication Technology II

2+2 3.0

Communication Systems on Railways; Study of Block Diagrams; System Line and Main Center Filters; Telegraph Bands; System Mounting; Grounding System; Feeding Types; Repeaters; Crossing Circuits; Adjustments; Error Determination; Railway Comprator Network; Telegraph Techniques; Telem Centrals; Adjuster Facilities.

RAY217 Infrastructure and Maintenance

2+2 4.0

Basic Technical Principles Which Must Be Taken into Consideration in Preliminary Study of Railway Route; Recognizing of Road Substructure Installations; Maintenance and Repair; Water of Face of the Earth and Underground in Substructure Installations; Preventive Measures Against the Factors such as Snow Avalanche and Landslide Gabaris Relevant to Railway Substructure; Measures Against the Factors such as Snow Avalanche and Landslide Gabaris Relevant to Railway Infrastructure; Station Installations; Recognizing Signs and Signboards on Road Routes, Comprehending when and how to use.

RAY218 Telephone Station Technology

2+0 2.0

Concept of Sound; Telephone Apparatus; Telephone Stations and Their Types; Digital Stations; Crossbar Stations; General Station Montage and Taking in to Operation; Roof Signalization; Subscription Roof; Group Selective Roof; Railway Telephony Network; Telecom Network Connections; Direction Selectors; Long Distance Circuit Selectors; Environment Plants.

RAY220 Superstructure Technique and Maintenance

3+2 4.0

Superstructure and Duties; Superstructure Materials and Connection Types; Rails, Rail Standard and Connection: Crossroads, Ballast, Short Road Materials, Superstructure Technique, Curves and, Influences, Altitude, Connection parabola, Replacement files, Road construction and repair, Superstructure's relation with speed, Switches and types; Basic Techniques of Superstructure Repair and Maintenance.

RAY221 Road Machines

2+0 2.0

General Information About Road Machines; Classification; Road Repair Machines: Rail welding machines, Road Renovation, Ballast adding, Regulator; Road Work Machines: Work otomobiles, Snow Shoveling, Infrastructure improvement and other work machines; Auxiliary Work Machines: Trifonoz blonoz, Rail profile grinding machines, Rail cutting, Rail milling, Crosstie milling, Rail carrying, Stretching, Grazing, Hand burage machine, Jacks and the other helper machines; Machine road repair: Basis, Benefits, Preparations before, after and during the repair, Burage machines and basis of road repair with machine; Giving the value for dever and flange; Laws of Nivelman.

RAY222 Rail Welding

2+2 3.0

General Information and Importance in Rail Welding: Aims, Welding types, Works to be done before, after and while welding on railway; Termit Welding: Team forming, Template, Preparing mold, Dampening, Preparing crucible, Casting, Opening molds and cleaning weld waste materials, Welding control; Preparation and Production of Machine Welding; Welding of material used for filling; Electric Arc Face Welding; Aluminothermy Rail Welding; Long Welded Rail Applications, Definition, Works, Measuring average temperatures; Taking Extension; Attention in Maintenance of Rail with UKR; Forming Systematic and Learned Welding Teams: Determining places where will be welded rail, Welding controls, Works in broken Rails.

RAY223 Railway System Management

2+2 3.0

Position and Importance of Railways in Transportation; Definition and Classification of Haul and Dragged Vehicles in Railway; Types of Stations; Midways of Stations and Switches; Definition of Signs in Railways; Systems of Train Traffic

Operating; Procedures of Carrying Passengers and Loads; Special Loading According to Types of Cars; Loading Gauges; Types of Security on Special Loading.

RAY224 Railroad Project and Railroad Technique

2+2 4.0

Introduction to Railroads: Railway mechanics, Traffic and trains; Project Standards; Standard Elements of Route: Design and geometry, Grades, Vertical and horizontal curves, Cant, Easement curves; Route Design: Plan and profile, Loading gauge, Cross sections; Earthworks; Superstructure: Rails, Ballast, Sleepers; Design of Superstructure; ORER Diagrams and Economics.

RAY225 Train and Wagon Planning

3+2 4.0

Transportation; Repartition; Vehicles; Importance of Utilization and Rotation for Railway Systems; General Procedures for Planning Trains and Railway Cars; ORER and Works of Orer; Reading Train Itinerary on Graphs; Calculations of Capacity and Personnel; Information on Statistics and Evaluations.

RAY226 International Railway Transportation

3+0 3.0

International Organizations Regulating the International Freight and Passenger Transportation; Regulations on International Freight and Passenger Transportation; General Information on International Passenger and Freight Transportation; Tariffs on International Freight and Passenger Transportation; General Trade and Tariff on Freight; Cards and Tolls Used in International Passenger Transportation; General Information about International Freight Transportation; Relationships Between International Passenger and Freight Transportation with Railways; International Tariffs, Application areas; Prices of Freight Transportation on Railways.

RAY227 Railway Transportation I

3+0 3.0

Passenger Transportation and Carrying Out; Main Line Passenger Transportations; Preparation of whole Tickets and Season Tickets and Season Tickets Used for Railway Transportation; Preparation of Documents Used for Luggage and Cargo Transportation; Preparation of Necessary Models at Transportation Disorders; Filling in Transportation Disorders Notebook Orderly.

RAY228 Introduction to Human Resources

2+2 4.0

Structure of Railway Institutions; Concept of Organization; Personnel Working in Railways: Personnel Working Lines, Duties and Responsibilities, Electric-Electronics Personnel, Duties and Responsibilities; Concept of Job Security, Vacation Time, Retirement; Concept of Duty and Responsibility; Evaluating Human Resources; Concepts of Punishment and Discipline.

RAY229 Introduction to Electric-Electronics

2+2 4.0

Facilities Providing Safety in Railway Operation; Telecommunication Facilities; Signal Facilities; Fixed Electrical Operating Facility; Positive Affects on Environment; Signals Facilities along Railway Related to Electrical Operating; Contribution of Service of Facilities to Economy and Business Administration; Providing the Safety of Train Traffic; Increasing the Capacity of Line and Contributing to Economy of the Country.

RAY230 Introduction to Railway Networks

2+2 4.0

Basic Concepts of Railways and Classifications; Railway; Radius; Route, Ditch, Application Variant; Switch, Incline, Main Line, Secondary Lines, Division Line, Concepts of Structure and Main Structure; Fissures; Reclaimed Tunnels, Bridges, Passages (Mountain Pass), Fortification Structures and Support Walls, Definition and Kinds of Main Structure; Materials: Definition and kinds of materials connecting rail to rail and rail to travers, Switches, Fixed facilities at stations, Signs and rules; Importance of Railway Maintenance.

RAY231 Introduction to Railway System Administration

2+2 4.0

Transportation, Modes and Importance, History of Railroading in World and Turkey, Description and Properties of Trains, Classification of Trains, Description and Properties of Stations, National Freight Processing, Pricing and Documentation, International Freight Processing and Documentation, Pricing, General International Freight Transportation Documentation, Trade and Tariffs (CIV), Regulations on Exceptions on International Freight Transportation.

RAY233 Introduction to Machinery

2+2 4.0

Basic Concepts and Classification of Vehicles Trailing and Being Trailed on Railways; Trailing Vehicles on Railways: Steam locomotives, Diesel locomotives, Electric locomotives; Railway Vehicles Being Trailed: Passenger railway wagons, Cargo railway wagons, Open-air type railway wagons, General Structure of Railway Wagons.

RAY234 (Eng) Technical English

3+0 3.0

Railway and Railroad Transportation Terminology in English and Turkish Meanings; Translation of Articles in English about Railway Technology; Education with aduio and visual agents designed for Railway Technology Education; Technical Reports and Technical Report Writing.

RAY235 Electronics 3+2 4.0

Conductivity, Isolation, Semi-Conductors; Diodes; Transistors: Structure and Types, Characteristics; Amplifiers; Power Supplies; Electro-Optical Circuits; Silicon Controlled Rectifiers; Amplifiers; Differential Amplifiers; Oscillators and Types of Oscillators; Integrated Circuits; Modulation and Demodulation; Senders and Receivers; Transmission Lines.

RAY236 Signal Technique

2+2 3.0

Development of Signalling Systems; Signalling Concept and Importance; Mechanical Signalling Systems; Level of Mechanical Signaling Systems, Types, and equipment; Design of Electrical Signalling Systems; Remote Controlled Signalling Systems; Direct Remote Signalling Systems; Automated Block Signalling Systems; Equipment Used in Automated Block Signalling Systems, Signals, Switch equipments, Track switch equipments, Grade crossing safety equipments, ATS system equipments, Energy source equipments, Remote center equipments, Conveyance line equipment; Track circuts; Communications Systems.

RAY237 Historical Development of Railways

2+2 4.0

Global Development Process of Railways; Railway History in Ottoman Period; Ottoman Empire's Railway Politics (Rumelia- Anatolian- Baghdad, Anatolian- Hedjaz Railways); Construction Period; Station, Locomotives, Passenger and Freight Investigation; Railway Uniform; Railways at Republic Period (1920-1950); Development Period in the First Years of Republic Period; Railways Situation After 1950; EU 's Railway politics Turkish Railway's Approach to EU Railway; Cultural and Social Effect of railway to Turkish People.

RAY238 Railway Systems Cost Analysis

2+0 2.0

Accounting Information Systems for Railway Systems; Cost Concept of Railway Systems; Materials and Labour Costs of Railway Systems; Operating Costs and Properties; Operating Costs and Budgeting; Expenses in Railway Systems, Pricing in Railway Systems; Application of Cost Accounting in Pass a Tool in Planning, Controlling, Appraisal and Decision making.

RAY239 Towing Vehicles I

2+2 4.0

Fundamental Concepts; Definitions and Classification of Towing Vehicles in Railway Technology: Definition of train sets and motor coaches, Transmission equipments Main and supplementary equipments in towing vehicles; Power supplies, Engines and Transformers; Wheels and Rails: Side and longitudal actions of cars and train sets in general; Lase Movements; Axle run downs and affects.

RAY240 Towing Vehicles II

2+2 3.0

Diesel Hydraulics Main Line and Maneuvour Locomotives: Transmission systems, Engines and characteristics, Properties of diesel engines; Diesel Hydraulics Trains' and Motor Coaches' Characteristics of Engines and Transmission Systems; Diesel-electric and Electric Locomotives: Properties and Transmision systems; Electric Powered Motor Coaches: Suburban lines, Subways; Lightrail Transportation Systems: Power and transmission systems of lightrail systems; Protection Circuits and Safety Sytems in Cars; Power Schemes; Dynamic Brakes.

RAY241 Locomotive Failure and Maintenance Techniques

3+0 4.0

Maintenance and Maintenance Types: Preventive Maintenance, Annual Maintenance, Periodic Maintenance, Maintenance of Diesel Locomotive and Detection of Failure: Lubricant control, Fuel control, Water control, Motor cooling system test; Nondestructive Test of Diesel Locomotive Equipment: Brake system control, Transmission test, Bogie test; Maintenance of Electrical Locomotive and Detection of Failure: Lubricant control, Fuel control, Water control, Motor cooling system test; Nondestructive Test of Electrical Locomotive Equipment: Brake system control, Transmission test, Bogie test.

RAY242 Computer Aid Circuit Analysis

2+2 4.0

Structure of Packet Program; Schematicaly drawing-ISIS: What is ISIS?, Chosing, Locating and Connecting of components, General concepts of ISIS: Graphics, Raporing, Print outputs; Simulation-VSM: Interactive simulation, Graphic based simulation; Types of Analysis: Analog analyse, Digital analyse, Frequency analyse, Noise analyse, Audio analyse, Interactive analyse, Digital conformance analyse; Models of SPICE: Definitrion of SUBCKT, Card of model, Libraries of model.

RAY243 Electrical Management Plants

3+0 4.0

Establishing Stationary Electrical Management Plants, Maintenance and Repairs; Fundamentals of Catenary Systems; Factors Affecting Catenery Type Selection; Necessary Road Plans and Data for Electrical Management Plant Projects: Route and station plans, Tunnel and over-crossing plants, Speed, Pantograph width; Determining and Planning Electrical Management Plant Feeding System; Determination of Catenary System; Poles and Ground Mountings; Catenary Equipments and Elements; Railway Electrification.

RAY244 Digital Electronic

Basic concept; Number systems: Decimal, Binary, Octal, Hexadecimal number systems; Conversion of number systems; Logic Gates: And, Or, Nand, Nor etc., gates; Truth tables; Boolean Algebra: Rules, De- Morgan theorems, Simplification of logic circuits; Karnaugh Maps, Simplification of Logic Circuits; Adders and Subtractors: Half-Full adders, Half-Full subtractors; Combinational Circuits: Decoder, Encoder, 7 segment display; Flip-Flops: S-R, D, T, J-K flip flops and truth tables; Counters; Registers; Memory Units: RAM, ROM, EPROM, EEPROM and their characteristics.

RAY245 Telecommunication Technique

2+0 2.0

Communication Systems Used in Railways; Investigation of Block Diagrams; System Line and Main Center Filters; Telegraph Lines; System Installation; System Grounding; Feding Types; Repeaters; Transition Circuits; Calibrations; Failure Detection; Railway Kramportör Network; Telegraph Technique; Telem Stations; Dispatcher Plants.

RAY246 Train Driving Signal Technique

2+0 2.0

Development of Signalling Systems; Signalling Concept and Importance; Mechanical Signalling Systems; Level of Mechanical Signaling Systems, Types, and Equipment; Design of Electrical Signalling Systems; Remote Controlled Signalling Systems; Direct Remote Signalling Systems; Automated Block Signalling Systems; Equipment Used in Automated Block Signalling Systems: Relays, Signals, Switch equipments, Track switch equipments, Grade crossing safety equipments, ATS system equipments, Energy source equipments, Remote center equipments, Conveyance line equipment; Track Circuts; Communications Systems.

RAY247 Train Air Conditioning

2+2 4.0

Basic Concepts: Temperature, Heat, Measurement, Specific heat, Change of state, Boiling and melting point, Entalphy curve, Heat transfer, Effective pressure, Absolute pressure; Cooling System: Cooling, Types of cooling systems, Cooling cycle schema, Compressor, Condenser, Evaporator, Heat exchanger; Cooling Electricity: The elements used in electrical circuit and their working principles; Air Conditioner Systems: Air, Cooling, Electrical circuit, Heat pump electrical circuit; Train Air Conditioner Systems.

RAY248 Train Drive Techniques

2+2 3.0

Straight Line Practice: Upward Light Slope Practice; Upward Perpendicular Slope Practice; Downward Light Slope Practice; Downward Perpendicular Slope Practice; Mixed Practice; RANFOR application; ATS Application; Maneuvers: Regular maneuver, ATMA Maneuver, Manual maneuver, Sliding maneuver, Side maneuver, Control of Maneuver Process: Train formation maneuver, Brakes on maneuver, Switch Services, Maneuver Line Control and Observation.

RAY249 Railway System Traffic II

3+0 4.0

Train Traffic; Acceptance and Departure of Trains; Disorders in Train Traffic; Models Assigned to Trains; Traffic Scale; Traffic of Service Trains, Railroad Machines and Railway Rotary Snow Plugh; Train Traffic in Muti-Way Lines; Special Regulations of Different Traffic Systems; Signal Colour Notifications; Train Traffic in Special Regions; Railroad Vehicle Traffic; Maneuvers; Signs Used in Railways.

RAY2501 Modern Welding Technologies

3+1 4.0

Introduction to Welding Technology; Weldability in Metals and Classification of Welding Techniques; Pressure Welding Types; Arc Welding; Gas Welding; Special Welding Techniques; Metallurgical Properties of HAZ and Welding Joint; Calculation of Weld Seam's Strength; Residual Stress and Cracks in Weld Seams; Stress Corrosion Fracture in Welding; Heat Treatments in Welding; Welding Defects; Inspection of Welding Quality; Health and Safety in Welding Processes.

RAY251 Train Mechanics I

3+0 3.0

Properties of Locomotives and Cars; Determining Speed For Trains with Load Types and Amounts; Determining Trip Time; Introduction of Equipment Used in Cars: Strings; Strength of Power Required for Cars; Strings in Straight and Hooked Areas; Harness Equipment and Location of Rantor Locomotive According to the Earth Surface; Calculations About Rolling Stocks and Hauled Vehicles: Calculations for passengers carried on railways, Calculations for passengers on urban railway transportation system, Load calculations on railways; Revision and Maintenance Programs of Rolling Stocks; Types of Brakes: Electric and pneumatic brakes, Stopping distance; Relation of Locomotive's Power and Load; Pulling Power and Junction Points.

RAY252 Train Mechanics II

3+0 3.0

Production and Use of Compressed Air; Brake Types; Brake Influence; Brake Hardware; Perception System; Supplementary Brakes and Elements; Determining Failures in System and Repair; Differences Between Basic Line Railway Engines and Maneuver Railway Engines Brakes Hardware; Testing Brake Hardware in Railway Cars and Engine Line; Calculation Planning of Rolling Stock Drivers; Evaluation of Rolling Stocks; Planning of Periodic Maintenance of Rolling Stock Depots, Round House Plan, Organization and Process of Rolling Stock Maintenance; Economy of Passenger and Load Transportation: Development of passenger and load transportation for GSMH increase and determination of needs, Intervention of round houses to railway accidents and taking steps.

Fundamental Concepts; Definitions and Classification of Towing Vehicles in Railway Technology: Definition of train sets and motor coaches, Transmission equipments Main and supplementary equipments in towing vehicles; Power supplies, Engines and Transformers; Wheels and Rails: Side and longitudal actions of cars and train sets in general; Lase Movements; Axle run downs and affects; Properties and Transmission Systems of Diesel Hydraulics Main Line and Maneuvour Locomotives, Diesel Hydraulics Trains and Motor Coaches, Diesel-electric and Electric Locomotives; Electric Powered Motor Coaches; Lightrail Transportation Systems; Protection Circuits and Safety Sytems in Railway Cars; Power Schemes; Dynamic Brakes.

RAY254 European Union Transportation Legislation

2+2 4.0

Railway Legislation: Framework law for rail sector, TCDD law, Foreseen legal arrangements in rail freight due to harmonisation with European Union; Mutual Operability; Railway Infrastructure Access Regulation: Limits for the rail freight; International Rail Freight Organizations; International Rail Freight Pricing; Combined Transport Legislation; United Nations International Combined Transport Convention; Turkish Foreing Trade Legislation: Investment and promotion legislation for international trade, International transportation and logistics legislation, International carriage contracts legislations, rights and responsibilities due to contracts; Transport Associations.

RAY255 Maintenance of Railway Vehicle and Certification

2+2 4.0

Equivalence of European and OTIF ECM (Entity in Charge of Maintenance) Regulations; Quality Management System, Maintenance Management and Efficiency; Main Actors and Responsibilities in the Wagon Operation; Main Actors, Responsibilities and relationships in the ECM Certification Process; ECM Working Models; Maintenance Management Systems Before ECM Regulations; ECM Functions: Management, Maintenance development, Fleet maintenance management, Maintenance delivery; Relationship Between ECM Functions; Purpose of Maintenance Workshop Certification and Certification Process; Sample Procedure; Developed Checklist for Evaluation of Maintenance Workshop.

RAY256 Railway Cars

2+0 3.0

Position of Passenger and Load Cars in National and International Transportation and Regulations; Passenger Cars, Load Cars, Types of Cars; Loading and Unloading Methods; Measurements and Interpretation; Types of Loading; Conditions of Passenger cars; Teaching Signs and Numbers of Trains and Rolling Stock; Parts of Cars and Their Functions; Containers.

RAY257 New Technologies in Rail Systems

2+2 4.0

Train Control System with Radio Communication, Asset Management, and Energy Management for Smart Grid; Technological Changes in Source of Fuel; Improved Border Crossing Arrangements, Information and Tracing Systems; The Standardization of Railway Systems for Fostering Interoperability in International Railway Corridors; Staff- and Customer-Friendly Train Designs; Modular Approach Based on Plug and Play; Energy Consumption By Rail Sub-Systems and Components.

RAY258 Railway Networks

2+0 2.0

Basic Concepts of Railways and Classifications; Railway; Radius; Route, Ditch, Application Variant; Switch, Incline, Main Line, Secondary Lines, Division Line, Concepts of Structure and Main Structure; Fissures; Reclaimed Tunnels, Bridges, Passages (Mountain Pass), Fortification Structures and Support Walls, Definition and Kinds of Main Structure; Materials: Definition and kinds of materials connecting rail to rail and rail to travers, Switches, Fixed facilities at stations, Signs and rules; Importance of Railway Maintenance.

RAY259 Organizational Behavior

3+0 4.0

Basic Concepts About Organizational Behavior; Historical Development of Organizational Behavior; Individual and Personality; Emotion, Attitudes and Job Satisfaction; Organizational Culture; Leadership; Organizational Conflict and Stress; Organizational Justice; Organizational Trust; Organizational Commitment; Organizational Citizenship Behavior; Positive Psychological Capital; Emotional Labor; Organizational Silence; Burnout Syndrome; Intention to Leave.

RAY260 Transportation Management

2+2 4.0

Transportation and Logistics; Determination of Customer Needs; Passenger-Load Transportation and Main Transportation Classes: Airway Transportation, Highway Transportation, Railway Transportation, Sea Route Transportation; Transportation Management; Transportation Planning; Sender and Receiver Sides; Evaluation of Vehicle-Load-Route; Time-Cost Analyses; Performance Analyses in the Transportation Management; Contract Genres; Pricing; Jural Charge and Legal Frame; The European Union Legislation: Legislations Regarding Highway-Airway-Sea Route and Railway; Arrangements About Transportation; Education of Human Sources; R&D Activities; Quality Management Systems.

RAY261 Railway System Vehicle Mechatronics I

3+1 4.0

Control Algorithms: Traction motor control algorithms, PWM rectifier control algorithm, Traction based slipping? skidding control, Dynamical brake system control (via braking resistance); Start Up/Switch Off Procedures: VCB, Main contactors and pre-charge contactors, DC bus discharge contactor, Manual switch off; Monitoring and Protection Procedures: Protection procedures for traction system related error/warning conditions, Traction system related event and error logging,

Controlling and monitoring the traction system related cooing circuits/devices; Traction Motor Speed, Thermal, Current and Voltage Monitoring Circuits; Air Brake and Its Interface with Central Control Unit.

Railway System Vehicle Mechatronics II

Cruising and System Logging; Monitoring, Protection and Control Procedures related to Auxiliary Systems; Processing Error Scenarios and Error Identification; Sending the Engine Driver?s Requests to Related Subsystems Considering Security Parameters; Manual Control of Pantograph and VCB; Sending Traction and Brake Requests to Related Units; Monitoring Locomotive Parameters; Manual Command and Control Signs Production; Collecting Engine Driver?s Data; Collecting the Data from Units related to Maintenance Monitor; Locomotive Protection and Warning Circuits; Railroad Signal Equipments and Communication Techniques; Control Desk (EUDD standard requirements).

Cultural Values in Railway Transportation

2+2 4.0

Cultural History of Railway Transportation; Railway Transportation Culture; Elements of Railway Transportation Culture; Subcultures in Railway Transportation; Emergence of The Subcultures in Railway Transportation; Historical Development of Turkish Railway Transportation; Historical Development of The Railway Transportation Education; Institutional Structure of Turkish Railway Transportation; Legislation about Turkish Railway Transportation; Institutional Culture in Turkish Railway Transportation; Cultural Values in Turkish Railway Transportation; Professional Ethics in Railway Transportation.

RAY266 New Approaches in Railroad Traffic Management

Historical Development of Railway System Traffic; Centralized Traffic Control (CTC) System; Traffic Control using Signals (TSI); Automatic Train Stop (ATS): Structure, Operation, Units, Railroad signal equipment; Automatic Train Control System (ATB): Structure, Operation, Units, Railroad and on board signal equipment; ATCS System: Structure, Operation, Classification, Railroad and on board signal equipment; The European Train Control System (ETCS): Structure, Operation, Level-1, level-2 and level-3 ETCS Systems, Railroad and on board signal equipment; SCADA System: Structure, Control systems, Planning, Railroad and on board central signal equipment, Communication and programmable electronic control units, Electrical panels; Global Development Process of the High Speed Train Management; High Speed Train Management Traffic Control in Turkey: Ankara-Eskişehir and Ankara-Konya examples.

Scientific Principles in Railway Engineering

Physics Concepts in Railway Applications; Implementation of Physics Concepts; Application of Newton's Laws, Forces Affecting Trains in Motion; Work-Power-Energy Calculations of Trains; Electric and Magnetic Fields; Grounding Railway Tracks, Information Transmission Lines and of Information Transmission, Electromagnetic Waves, Light and Optics.

RUS115 (Rus) Russian I

3+0 4.0

Introduction; Introduction of the Russian Alphabet; Stressed and Unstressed Sounds (,); Introduction of Letters in the Alphabet (continuation): Phonetic perception and construction study; Introduction of Letters in the Alphabet (continuation): 1st and 2nd types of intonation; Introduction of a Human Being or an Object: "?" and "?"; Noun Particles That Indicate Gender; Welcoming Passengers, Greetings, Farewell; 3rd and 4th Types of Intonation; Plural Nouns: The construction of plurals, Possessive; Polite Request, Apologizing; The Questions "?/?/?" and Their Consistence with Nouns; Exceptions in Plural Nouns; Possessive Pronouns; Verbs, Types of Verbs, First Type of Verb Conjugation of the verbs; Introducing Oneself; Verbs in Infinitive Form; Sentence Formation, Second Type of Verb Conjugation; Introduction of Adjectives and Their Combination with Nouns.

RUS116 (Rus) **Russian II**

3+0 4.0

Using Possessive Expressions Such as " "; Introduction to Complex Sentences: Making complex sentences in present tense, present continuous tense, simple past tense and future tense "","", "", ""; Information about Family, Past Tense, Verbs in Infinitive Forms; Commonly Used Phrases in Conversation and Telephone Conversation; Duties of a Flight Attendant; Basic Knowledge of Refreshments in the Cabin; Adverbs; Making a Glossary and Sentence Construction; Use of Verbs Such as " and ""; Glossary of Drinks and Food, Offering Drinks; Imperative Form of Verbs; Assisting Passengers to Take Their Seats and Pre-takeoff Controls; Important Words about Aviation and Airlines; Making the First Announcement; Question of "?" and Response to the Question; How to Say Where an Object or Person Is Located and Where an Action Takes Place, Conjugation of the Verbs "", "" and ""; Future Tense, Introduction of Oneself; Presentation of the Human Body, Clothing and Seasons; Prohibited and Restricted Baggage Items and Related Rules.

RUS217 (Rus) Russian III

3+0

Prefixes in Verbs of Motion; Prefixes of "-" and "-"; Airport and Airport Services; Directions; The Accusative Case of Adjectives and Inanimate Nouns and Answering the Questions "?/?"; Use of the Phrase " ", Complaints and Handling Disruptive Passengers; Handling Medical Problems in Flight and First Aid; The Preposition " ?/ ?"; The Genitive with Prepositions ""; Responses to Questions "?", "?", "?", Analysis of Differences Among These Questions; Prefixes in Verbs of Motion: Prefix "-"; Prefixes in Verbs of Motion: Prefix "-"; Talking about the Flight; Introduction Aircraft Equipment; Pre-flight Briefing.

RUS218 (Rus) Russian IV

3+0 4.0

SAĞ102 First Aid 2+0 2.5

Social Importance of First Aid; Aims of First Aid; Precautions To Be Considered by The One Who Will Apply First Aid; Human Body; First Aid Materials; Strangulations and Supplying Respiration; Stopping Bleedings and Supplying The Blood Circulation: External and internal bleeding signs and first aid, Recognition of blackout of consciousness and first aid, Shock causes and recognition of shock related to bleeding and first aid, Coma degrees and first aid, First aid in heartbeat stopping, Applying cardiopulmonary resuscitation (CPR) and artificial respiration together; Injury Types and First Aid; Burn and Boils; Fractures, Dislocations and Spraining; Poisonings, Freezing, Hot and Electric Shocks; Communication; Preparation of Injured Person for Carrying and Carrying Types.

SAĞ116 Health Information and First Aid in the Cabin

1+2 3.0

Knowledge of Basic Anatomy; Infectious Diseases and Prevention; Flight Hygiene; Physiological Effects of Flight; Basic Concepts of First Aid and Responsibilities of Cabin Attendants; First Aid Materials and Applications; Patient Consultation and Three Vital Situations; Respiration Halt and Opening of Airway: Artificial respiration, Heimlich method; Shock; Bleeding and Ways to Stop Bleeding; Wounds and Tetanus; Heart Attack and Cardiac Arrest; Revival of Heart and Lungs and Revival Table; Burns; Fractures; Sprains; Loss of Conscious; Stroke; Food Poisonings; Psychological First Aid; Delivery and Reporting; Death on Board and Reporting.

SAN155 Hall Dances 0+2 2.0

Basic concepts. The ethics of dance, Dance Nights, Dance Costumes, National International Competitions and rules/grading, Basic Definitions, Classifications of Dances: Social Dances; Salsa, Cha Cha, Samba, Mambo, Jive, Rock'n Roll, Jazz, Merenge; Flamenko, Rumba, Passa -Doble, Argentina tango, Vals, Disco, Quickstep, Foxtrot, Bolero, European Tango: Ballroom Dances; Sportive Dances; Latin American Dances; Samba, Rumba, Jive, Passa-Doble, Cha Cha, Standart Dances; European Tango, Slow vals (English), Viyana vals, Slow foxtrot, Quickstep.

SHK101 Knowledge of Basic Flight and Aircraft

1+1 2.0

Theory of flight, Aerostatics Aerodynamics, Basic Airodynamics, Physical characteristics of air, Standard atmosphere, airflow, components of aerodynamic force, wing configurations, flaps, Fuselage, Types of aircraft, Flight control surfaces.

SHK102 Meteorology

2+0 3.0

History of Meteorology, The Atmosphere, Pressure, Density, Synoptic Charts, Pressure Systems, Altimetry, Temperatura, Humidity, Stability, Turbulence, Wind, Local winds, Upper winds, Air masses, Global circulation, Jet Stream, Cloud formation and precipition, Thunderstroms, Meteorological Visibility, İcing, Meteorological documentation, Weather Charts, Weather Report (METAR, TAF..)

SHK103 Professional English I

2+1 3.0

Aviation Alphabet; Terms/ Aviation terminology, Historical Development of Civil Aviation, National and International Civil Aviation Organizations, Legal Statements: Nine Air Trafic Statements; general view to Air transport Industry; Airline Services, Airport Services, Ground Services. Reading and examining articles about aviation sector/field based on the curriculum; Case studies.

SHK104 (Eng) Professional English II

2+1 4.0

Announcements: announcements for normal conditions/situations, announcements for emergency conditions/situations. Human Sources in Aviation Industry: the importance of human sources in the process of industry, The importance and position of cabin attendants in this process, human psychology, English communication skills; Reading and examining articles about responsibilites for cabin attendants; case studies.

SHK106 Introduction to Cabin Attendant

1+2 3.0

Cabin Attendant Duties and Responsibilities: Safety of cabin, Safety of passenger, Catering, Documentation, Duty-free; Cabin Attendant Lifestyle: Cabin Attendant Healthy Living, Considering the time and climate differences in cabin attendant health, Relocation; Diction; Personal Hygiene, Make-up; Etiquette and grace.

SHK107 (Eng) English in Real Life I

3+0 4.0

Oral Communication Functions: Meeting, Greeting, Saying goodbye, Shopping, Asking for/Giving Permission, Stating opinion about any topics and issues; Making Reservations; Offering and Suggesting and/or Refusing; Phrases and

Vocabulary: Phrasal verbs and meanings; Adjectives and Phrases Used to Define and Describe People, Events and Social Contexts; Structures: Comparisons; Modal Verbs Used to Express Possibility, Obligation, Permission, Ability.

SHK108 (Eng) English in Real Life II

3+0 4.0

Samples of Various Written Text Types: Short story, Newspaper article, Advertisement, Curruculum Vitae/Resume, Diary, Critic, Anecdote; Reading Comprehension Strategies: Guessing unknown words in the context, Finding main and specific ideas, Scanning, Skimming; Parts of Speech: Nouns, Adjectives, Verbs, Adverbs; Effective Dictionary Use.

SHK201 Normal Safety Procedures

1+3 3.5

Cabin description: Electronic communication systems, Lavatories, Galleys, Water systems, Passenger oxygen systems, Passenger overhead lockers, Doors, Practical education, Passenger management: Knowing the passengers under medication or alcohol and methods, Controlling the crowd, Settlement of disabled passengers, Carrying pets in the cabin, Hand luggage on bags, Practical education; General methods during turbulence and methods during turbulence, Methods before flight and during take off, Methods during flight; methods of landing and after flight; fuel-loading on the ground when passengers on board; carrying dangerous materials by air; practical education.

SHK202 Emergency Procedures

1+3 3.5

Emergency Equipment: Oxygen and oxygen systems, Survival equipment, Aircraft evacuation equipment, Lifejacket, Practical training; Basic Principles; Decompration; Emergency Oxygen Applications; Types of Fire and Fire-related Procedures: Fire Extinction Training; Emergency Procedures During Takeoff, Flight and Landing; Evacuation Procedures: Survival techniques, Practical training; Passenger and Crowd Control in Emergency; Emergency Procedures Related with Dangerous Goods; Practical Training.

SHK203 Basic Service Knowledge

1+1 2.0

Basic concepts of catering and hospitality; Presentation of service material and storage; Hijyene and Sanitation; Service Procedures: Standard service, Preparation; Food Knowledge: Hot foods, Cold foods; Drink information: Bar management, Beverage types, Spirits, Kocktail, Wine varieties, Beer varieties, Soft drink, Drink service, Aperitives, Drinks served at dinner, Digestion, Practical Training

SHK204 In-Flight Services

1+1 2.0

In-Flight Service and Its Importance; Main Factors in In-Flight Service Planning; Financial Benefits of Food-Drink Finance Control on Airlines and Role of Flight Attendants in Finance Control; Materials Served in Cabin: Storage of food and drinks, Use of seals, Newspaper service, Headphone service, Amenity service, Hot towel service; Types of Services According to Various Hours of a Day; Types of Service According to Passengers; Service to Cockpit; Service of Duty-Free; Service Procedures; Galley, Food heating procedures, Procedures to follow during service, Rules for beverage service; Standard Ways of Service; Reports and Forms; Practical Training.

SHK205 In-Flight Customer Services

1+2 3.0

The importance and role of front-line attendant in airlines. Communication with passengers and using body language; Welcoming and saying goodbye to passengers; Passenger types and meeting their expectations: Passenger types in different classes on board, Businessmen, frequent flyers, loyal flyers, very important passengers, workers, unaccompanied miners, ill and disabled passengers, pregnant passengers and passengers with babies, passengers who required special menu, tourist groups, free flyers, dissatisfied passenger management, in-flight entertaintment.

SHK206 CRS Application

1+3 3.5

Concepts; Global Indicators; Fare Calculation for One-Way and Return Tickets and Ticket Issuance; PTA, MPD Issuance; Special Fares; Mixed Class; Fares for Children and Infants; Coding; Encoding; Timetable Entries; Flight Display; Sale from Flight Display; Waitlist; ARNK Segment; Name, Telephone, Ticketing and Booking Entries; OSI, SSR Entries; Division of a Reservation File; Fare Screen: Pricing procedure; Various Entries; Ticket Printing.

SHK207 Passenger Service

1+1 2.0

Definition of Passenger; Handling of Valuable Documents; Baggage Handling; Intermediate Points During Journey: Stopover, Transfer, Transit; Points to Consider Regarding Passenger Tickets; Tickets Subject to Special Fare; Baggage Subject to Special Fare; Peace Rate System Transportation; Excess Baggage Handling Procedures; Procedures for Traveling with Pets; Rules Related with Cabin Baggage; Endorsement; Reissue.

SHK208 Dangerous Goods

1+1 2.0

The Concept of Dangerous Goods and Classification of Dangerous Goods; Dangerous Goods Not Transported by Air; Units and Documents Used; Responsible Parties in Air Transportation of Dangerous Goods: Shippers, Cargo agencies, Airline companies, Load planners and flight crew, Loading and storing personnel; Use of Dangerous Goods Table; Use of Packaging Instructions and Tables; Packaging Procedures and Performance Tests; Package Marking and Labeling; Responsibilities of

Shipper and Transporter with Regard to Dangerous Goods; Making a Bill of Loading; Reception, Storage, Loading and Control of Dangerous Goods.

SHK210 In-Flight Resource Management

1+2 3.0

Basic Concepts Concerning Flight Safety; Human Factors; Aircraft Flight Attendant and Resource Management; Human Performance and Its Limitations; Human Error and Its Management; Stress Management; Fatigue and Attention; Self-confidence and Persistence; Situational Awareness; Workload Management; Communication and Coordination between Cabin Attendant and Cockpit Crew; Communication and Coordination with Other Personnel; Leadership in Aircraft Cabin Attendant; Management of Human Factors Among Passengers: Crowd control, Passenger stress, Crowd conflict management, Factors Concerning Flight Types; Cases Related with In-Flight Safety.

SHK211 Airline Marketing

2+0 3.0

Basic Concepts of Marketing; Market and Marketing for Airline Enterprises; Marketing Strategies; Problems Encountered in Pricing and Pricing in Airline Marketing; Distribution Systems in Airline Marketing; Sales in Airline Enterprises; Advertising and Promotion Policies in Airline Enterprises; Market Resources for Airline Enterprises; Marketing Problems in Air Transportation and Solution Suggestions for Problems.

SHK212 Ground Handling and Operation

1+1 2.0

Weights Concerning Load and Balance: Importance of Balance: Center of gravity and balance, moment, imaginary starting line, ground number for aircraft fuselage center of gravity, center of gravity of an empty plane. Aerodynamic Blade Section: Blade section, the distance of frontend of blade section to starting line, the distance of backend of blade section to starting line, main wing cross-section calculations, stabilizer trim graph, limits of gravity center, failure to hover. Effects of Overloading on Aircraft Performance: During takeoff, flight and landing, and failure to hover. Effects of Loading at Front and Back Limits of Gravity Center on Aircraft Performance: During takeoff, flight and landing. Passenger and Cargo Transportation by Air: Passenger, cargo, luggage regulations and limitations Loading Limitations: Load limitations, loading limitations, aircraft limitations. Preparation of Load and Balance Forms: Preparation of load and balance forms for Boeing 737 airplanes, Preparation of load and balance forms for Airbus A-319-320-321.

SHU223 Safety Management System

2+0 3.0

Basic Concepts About Safety Management System; Potential Hazards; Risk and Aviation Safety; Safety Models and Approaches in Aviation; Human Performance and Limitations; Factors Affecting Performance; Positive Safety Culture; Leadership; Human Error and Violations; Dispatch Resource Management; Safety Performance Indicator; Organizational Justice and Trust; Voluntary Reporting; Safety Management System.

SNT155 History of Art

2+0 2.0

History of Civilization and Evolution of Art: Prehistory to Present; Concepts and Terminology in Art with Samples; Interrelation among Art-Religion and Society; Effects of Religion on Artistic Development; Reflections and Interpretations of Judaism, Christianity and Islam on Art; Renaissance: Emergence, Effects, Artists, Works of Art; Architecture and Plastic Arts; Art in the 19th and 20th Centuries: Relevanceof the main historical events of the period.

SOS155 Folkdance 2+0

Dance in Primitive Cultures; Dance in Earlier Civilizations; Dance in the Middle Age and Renaissance; Dance in the 18th and 19th Centuries; Dances of the 20th Century; Ballet; Turkish Dances; Emergence of Folkdance; Anatolian Folkdance: Classification, Accompanying instruments; Methods and Techniques of Collecting Folkdance; Problems in Collecting Folkdance; Teaching of Folkdance; Adapting Folkdance for Stage: Stage, Stage aesthetics and Choreography, Orientation and choreography.

TAR165 Atatürk's Principles and History of Turkish Revolution I

2+0 2.0

Reform efforts of Ottoman State, General glance to the stagnation period, Reform searching in Turkey, Tanzimat Ferman and its bringing, The Era of Constitutional Monarchy in Turkey, Policy making during the era of first Constitutional Monarchy, Europe and Turkey, 1838-1914, Europe from imperialism to World War I, Turkey from Mudros to Lausanne, Carrying out of Eastern Question, Turkish Grand National Assembly and Political construction 1920-1923, Economic developments from Ottomans to Republic, The Proclamation of New Turkish State, from Lausanne to Republic.

TAR166 Atatürk's Principles and History of Turkish Revolution II

2+0 2.0

The Restructuring Period; The Emergence of the fundamental policies in the Republic of Turkey (1923-1938 Period); Atatürk's Principles, and Studies on Language, History and Culture in the period of Atatürk; Turkish Foreign Policy and Application Principles in the period of Atatürk; Economic Developments from 1938 to 2002; 1938-2002 Period in Turkish Foreign Policy; Turkey after Atatürk's period; Social, Cultural and Artistic Changes and Developments from 1938 to Present.

THU203 Community Services

0+2 3.0

Various Community Projects: Helping young students during their study periods or after school study sessions, Aiding the elderly in nursing homes, helping disabled individuals with various tasks, helping social services and aiding children with their education etc., take part in the projects which raise environmental awareness, Integrating with the community and enabling use of knowledge accumulated in the courses.

TiY308 Republic Era Turkish Theatre

2+0 3.0

Republic Era Turkish Theatre: Political, Social, Cultural Art Life; Theatre Concepts; Western Theatre; Theatre Perception; Effects of Western Theatre on Turkish Theatre; Dramatic Types; Acting Methods, Directing, Playwriting, Dramatic Styles; Theatre Buildings; Directing Techniques; Analyzing Developments of Theatre; Theatre Education; State Theatres; Private Theatre Companies.

TKY204 Total Quality Management

2+0 2.0

Quality Concept; Historical Evolution; Strategic Quality Concept; Quality Dimensions; Factors Effecting Product and Service Quality; Quality Management and Evolution of Management; Characteristics of TQM as a Management System; Preparing TQM; Tools Using TQM; TQM in Turkey; TQM, ISO 9000 Quality Assurance Systems and Quality Circle Applications for Problem Solving.

TOP102 Surveying

2+2 4.5

Concepts Related to Topography; Simple Measurement Tools and Horizontal Measurement: Application of right angles, Application of right angles by the help of prisms, Application of lines; Length Measurement: Calculation of Surveying and levelment; Calculation of Area: Calculation of area according to measurement values, Calculation of area according to coordinate values, Calculation of area according to Cross Method; Theodolite and Angle Measurement: Measuring horizontal and vertical angles, Length measuring; Drawing Maps and Plans Using The Dimensions of a Field: Calculation of Coordinates; Calculation of Polygons.Concepts Related to Topography; Simple Measurement Tools and Horizontal Measurement: Application of right angles, Application of right angles by the help of prisms, Application of lines; Length Measurement: Calculation of Surveying and levelment; Calculation of Area: Calculation of area according to measurement values, Calculation of area according to Cross Method; Theodolite and Angle Measurement: Measuring horizontal and vertical angles, Length measuring; Drawing Maps and Plans Using The Dimensions of a Field: Calculation of Coordinates; Calculation of Polygons.

TRA101 Introduction to Transportation and Traffic Technique

3+0 5.0

Transportation and Traffic Concept; Urban Transportation; Traffic Arrangement and Beginning of Traffic; Changes in Traffic Trend; Transferring Traffic and Saturation Point; Basic Elements of Traffic and Relations Between Them; Capacity Concept and Speed-Flow Relationship for Capacity; Service Level; Studies and Measurements in Traffic; Human as a Traffic Element; Vehicle; Roads and Crossroads; Traffic Lights, Traffic Signs.

TRA104 Traffic Regulations and Law

2+0 2.5

Definitions; Organizations; Traffic Signs; Signals; Signaling Regulations and Road Information; Using the Road; Speed Regulations, Distance to be kept between the vehicles during traffic flow, Overtaking; To Let the Others Overtake, Passing priority, Rail road cross, Zebra crossings; Stopping, Waiting and Parking Regulations; Service Vehicles, Legal responsibility and insurance; Highway Regulations; Regulations for Responsibility in Accidents; Major Fault; Experts; Traffic Documents.

TRA118 Transportation Politics and Planning

3+0 3.0

Transportation Politics, Basic Concepts in Planning and Introduction to Long Term Planning; Determination of Research Areas in Transportation Planning; Data Types and Methods of Data Collecting; Travel Distribution; Long Term Planning: Transportation creation, Assignment; Short Term Planning: Short term planning application, Preventions and observations, Urban transportation systems, Sample planning and cautions.

TRA201 Traffic Planning and Application I

2+2 4.5

Traffic Technique and Scientific Fundamentals of Traffic Technique; Relations between Elements of Traffic; Analysis of Relation and Alternation Between Traffic Elements; Study Concept in Traffic, Importance and Performation; Traffic Load Concept; Road Design With Respect to Load, Examination of Urban and Intercity Crossroads with Respect to Load and Obtain of Project Information.

TRA202 Traffic Planning and Application II

2+2 3.0

Light Signals Theory and Practice; Traffic Signs; Car Parks; Study on Effects of Traffic Elements such as Roads and Crossroads on Accidents; National and International Projects and Their Results; Long Term Planning in Transportation and Planning: Landscape usage, Traffic; Short Term Planning: Effective usage of existing establishment; Public Transportation.

TRA203 Bridges and Tunnels

3+0 4.0

Bridges: Definition of bridges, Parts, Types; Bridge Standarts; Types of Bridges: Choosing, Factors effect on choosing; Road Bearing by Bridge and Complementary Parts; Computations and Solution Methods about Bridges; Bridge Project; Definitions about Tunnels; Aims of Tunnel Construction; Classification of Tunnels; Standarts of Tunnels; Transportation Tunnels; Strength Effect on Tunnels; Behavior of Tunnels under Effect; Technics of Opening Tunnels, Effect of factors on selection of tunnels; Machines Using on Construction of Tunnels; Tunnel Project.

TRA204 Road Superstructure

2+0 2.0

Elastic Pavements: Elastic pavements with low standart, Elastic pavements with high standart; Bituminous hot emulsions: BSK emulsion compozision, Bituminous hot emulsion construction, Defects of elastic pavements, Restoration and design of elastic pavements; Rigid Pavements: Concrete and concrete components, Properties of early concrete, Concrete hardening properties, Concrete pavement design, Concrete pavement construction, Defects and restoration of concrete pavements, Construction and design of concrete cobblestone pavement.

TRA206 International Traffic Law Enforcement

3+0 4.0

Road Concept; Urban Roads and their Characteristic; Urban Pass of Main Distribution Road; Regional Distribution Roads; Local Distribution Roads; Pedestrian and Bicycle Roads; Standards and Projects of Pedestrian and Bicycle Roads; Inter city Roads, Standards and Projects; Urban Roads, Standards and Projects

TRA209 Traffic Documentation Operations

3+0 4.0

Basic Operations in Traffic Documentation Operations; The Necessity of Vehicle Registration; Authorized Institutions in Registration Operations and Vehicles to be Registered; Conditions Where Registration Is Not Necessary; Registration Periods; Traffic Fines; Traffic Documents and Validity; New Registration and New Registration Procedures; Procedure for Sales and Transferring of Vehicles; Work Machines; Non-Motorized vehicles.

TRA210 Accident Location, Investigation and Consultative Authority

2+2 3.0

Accidents on Roads; Experts; Working Principles; Studying Effects of Weather Conditions and Road Elements on Accidents; Handling the Traffic without Accident by Educational Side; Infrastructure Arrangement: Signs, Traffic lights, Road elements; Studying Effects of Infrastructure Arrangement on Accidents; Deaths and Injuries; Social-Economical Costs; Effects of Accidents on Injured Parties.

TRA211 Traffic Education

3+0 4.0

Importance of Traffic Education; Arrangement of Educational Activities; Co-operation Between Associations; Educational Activity: Using suitable materials in education; Choosing the Right Place for Educational Activity; Evaluation of Education Activities; Examination of Traffic Education and Traffic Safety.

TRA212 (Eng) Technical English

3+0 3.0

Description and Usage of the Frequently used Words and Expressions about Highway Transportation and Traffic; Equivalents of these Words and Expressions in Turkish; Translation of Sections of Highway Transportation and Traffic in Turkish; Studying on this Subject with Computer Programs and Films at Class; Writing Technical Report.

TRA213 Highway Services and Maintenance

3+0 4.0

Perpendicular and Horizontal Marking on Highways: Determination and application of locations; Vehicle Examination: Properties of vehicles required for entering highway traffic, Reasons and controling; Weight Controling Methods and Applications: Contribution to Economy; Keeping Highway Open to Traffic: Prevents of keeping highway open to traffic under all environmental and climate conditions, To project, Preparing scenario, To make a decision against sudden events and applications.

TRA214 Computer Applications in Traffic Planning

2+2 3.0

Basic Arithmetical Methods on Computers in solving Complex Problems; Program Writing; Basic Principles of Using Computers; Matrix Operations and Definition of Linear Equations: Their solutions, Solutions of non-linear equations; Interpolation and Regression; Derivation and Integral; Solutions of Differential Equations; Optimization.

TRA215 Motorized Vehicle Technology

3+0 4.0

Definition of Motorized Vehicle: Internal combustion engines; Parts and Materials of Engines; Systems of Forming Vehicles; Fuel Systems; Cooling Systems; Ignition Systems; Lubrication Systems; Concepts; Gearboxes, Shafts, Differential wheels; Brake System; Front Mechanic Geometry; Tires; Tire Materials; Measurement Standarts.

TRA216 Highway Traffic Safety Control

3+0 4.0

General Look at Highway Safety; Safety and Highway Design: Human factors affecting highway traffic accidents, Road factors affecting highway traffic accidents, Vehicle factors affecting highway design accidents, Determination of points and sections having highway safety problems (Methods and Selection of Method), Relations between design elements concerning highway safety (Horizontal-Vertical Geometry and Safety); Sight Distance and Safety; Traffic Condition;

Design Speed and Safety-Platform Characteristics and Safety; Roadside and Safety; Traffic Control Elements (Signing, lighting etc.) and Safety; Other Highway Design Elements and Safety; Cost Effectiveness of Safety Development; Modeling Highway Safety; Worldwide Highway Safety.

TRA217 Road Projects and Highway Techniques

2+2 4.0

Road Concept; Characteristics of Road Users; Vehicle Movements and General Properties of Highway Traffic; Capacity of Roads: Counting traffic mass of the year of project; Choosing Geometrical Standarts: Planing urban roads and characteristics, Standarts of highways and projects, Distributor roads, Pedestrian and bicycle roads, Planning crossroads; Route Examination: Horizontal curves and crossing curves, Cross section and perpendicular curves; Measurement of Surveying: Substructure formation, Drainage of roads, Economical research.

TRA219 Traffic Audits and Regulations

3+0 4.0

Types of Audits: On motion, Informing, stable, Selector controls; Types of Advanced Controls: Hidden, Open, Camouflaged audits; General Audit Components: transportation of dangerous materials on highway, speed, alcohol, load and passenger, Parking limits, Lighting of vehicles, Following distance, Documents of vehicles and drivers, Lane and Light violations, Motorless vehicles and Pedestrians audits, Audits of safety belt; Works of Traffic Regulation: Prohibition of vehicles and drivers from traffic, how to open a congested road, warning of drivers about road conditions and giving information, education of commercial vehicle drivers.

TRA221 Geographic Information Systems and Road Modeling

3+0 4.0

What is Geographic Information Systems (GIS)?; How GIS can be apply to the Transportation Sector; Flow Chart of an General GIS Application Project; Data Collection, Digitization, Vector Data Editing; Data Structure Desing in the Transportation Sector; Relationships of the Graphic Data and Database; Preparation of Vector Graphic Features of Railroad Definitions: Point, Line and Poligon; Line and Node Logic in the Transportation Analysis; Topology Logic in the GIS; General Overview of the Railroad Transportation and GIS; Linear Segmentation (AM/FM); General Definitions and Concepts; Some Linear Segmentation Concepts in Turkey; Some Linear Segmentation Softwares.

TRA223 Geotechnics for Roads

2+2 4.0

Geotechnical Investigation for Road Construction; Soil Borings; Soil Compaction and Stabilization for Pavements; Fundamental of Drainage and Consolidation; Slope Stability and Retaining Structure Practices; Geosynthetics Design for Road Construction; Ground Anchors Practices for Road Construction; Road Earth Structures; Rock Mechanics for Road Construction.

TRA225 Vehicle and Driving Safety

3+1 4.0

Safe Driving; Pre-Driving Preparations and Controls; Importance of Tires; Seat Belt, Airbags and Protective Assemblies; Vehicle Safety Systems; Importance of Traffic Rules and Signs; Vehicle Speed and Stopping Distance; Driving Techniques in Different Conditions; Factors that Affect Driving Safety; Importance of Periodic Maintenance of Vehicles.

TRS102 Technical Drawing

2+2 4.5

Engineering Drawing and Tools: Drawing tools, introduction, use and care; Engineering Drawing Papers: Papers used at drawing, Measurements of paper standards; Scales: Applications; Standard Line: Areas of application; Line studies; Standard Writing: Inclined and Perpendicular writing, Writing studies; Geometrical Drawings: Angles, Setsquare, Ruler, Drawing angles by using compasses, Dividing to equal parts, combinations, Drawing regular polygons into a circle; Geometric Projection and Drawing Views; Scaling and Measuring; Cross Section Views; Perspective; Roughness of Surfaces and Surface Processing Signs; Tolerance and Exercises. Engineering Drawing and Tools: Drawing tools, introduction, usage and care; Engineering Drawing Papers: Papers used at drawing, Measurements of paper standarts; Scales: Applications; Standart Line: Usage areas, Line studies; Standart Writing: Inclined and Perpendicular writing, Writing studies; Geometrical Drawings: Angles, Setsquare, Ruler, Drawing angles by using compasses, Dividing to equal parts, combinations, Drawing regular polygons into a circle; Geometric Projection and Drawing Views; Scaling and Measuring; Cross Section Views; Perspective; Roughness of Surfaces and Surface Processing Signs; Tolerance and Exercises.

TÜR125 Turkish Language I

2+0 2.0

Language: Characteristics of language, Relationship between language and thought and language and emotion, Theories about the origin of languages, Language types, The position of Turkish Language among world languages; Relationship Between Language and Culture; Historical Progress of the Turkish Language; Alphabets Used for Writing in Turkish; Turkish Language Studies; Turkish Language Reform; Phonetics; Morphology and Syntax; The Interaction of Turkish Language with Other Languages; Wealth of Turkish Language; Problems Facing Turkish Language; Derivation of Terms and Words; Disorders of Oral and Written Expression.

TÜR126 Turkish Language II

Composition: Written composition, Paragraph and ways of expression in paragraphs; Punctuation; Spelling Rules; Types of Written Expression and Practices I: Expository writing; Types of Written Expression and Practices II: Narrative writing; Academic Writing and Types of Correspondence; Reading and Listening: Reading, Reading comprehension strategies, Critical reading; Listening; Relationship between Listening and Reading; Oral Expression: Basic principles of effective speech; Body Language and the Role of Body Language in Oral Expression; Speech Types; Principles and Techniques of Effective Presentation; Some Articulatory Features of Oral Expression.

TÜR215 Sign Language

1+1 3.0

Sign Language and Environment: Features, Letters, Definitions and usage, Signs related to the signer, Signs related to the environment, Building sentence; Signs of School and Education: Educational materials, Numbers and math signs, Measurement signs: Sign of Food and Clothes: Names of meals-fruit-vegetable and legumes, clothes; Grammar in Turkish Sign Language: Nouns, Verbs, Adjectives, Antonyms: Feelings and Properties: Feelings, Colors, Home and domestic appliances; Time and Periods of Time: Calendar, Hour, Adverbs of time; Traffic and Living Creatures: Traffic and traffic signs, Plants, Animals; Professions; Terms of Sports and Geography; Terms of sports, Meteorological events, Geographical terms: states, cities of Turkey, local settlements; Dialogue: Sentence construction, Meaningful sentences, Tenses, Dialogues using Turkish Sign Language.

UFR101 (Fra) French I

3+0 4.0

Acquaintance: Greeting; Alphabet: Letters in the alphabet; Numbers: Numbers from 1 to 50, Introducing yourself and meeting others: Country, nationality names; Articles: Definite and indefinite articles; Adjectives: Genus, color, number, question, demonstrative adjectives; Pronouns; Question Words: Who, Where, When, How; Negative sentences, Present tense: Être, Avoir, Aller and Group 1 verbs; Prepositions of place and direction: use prepositions in sentence.

UFR102 (Fra) French II

3+0 4.0

Imperative mood; Verb "Prendre"; Prepositions "à, en and du", adverb "Y"; Prepositions of direction, pronoun "On"; Days, months, seasons; The concept of time and clocks; Verbs "Partir" and "Sortir"; Uses of the verb "Faire"; "Est-ce que" question pattern; "Lire" and "Écrire" verbs; Reflexive verbs; Talking about daily activities; Partial articles; Verbs "Boire", "Acheter"; Past tense with the verb "Avoir"; Past tense with the verb "Être".

UFR201 (Fra) French III

3+0 4.0

Past tense of irregular verbs; Verb "Pouvoir" and negative imperatives; Indirect object pronouns; Direct object pronouns; "Il faut" phrase and prohibition phrases; Use of imperative with "COI" and "COD"; Verbs "Vouloir" and "Savoir"; Mixed exercises with "COI" and "COD"; The pronouns "En" and "Ça"; "Ne... plus" negative expression; Verbs "Aimer" and "Détester"; Usage of "Trop/Assez", "Trop de/assez de"; Questions and answers with "Pourquoi" and "Parce que"; Past tense and imperative of reflexive verbes; Use of the verb "Préférer".

UFR202 (Fra) French IV

3+0 4.0

"Le Passé Récent" tense; "l'Imparfait" tense; Uses of "Le Passé Composé ve l'Imparfait" tenses; Past time indicators; Mixed exercises with "Le Passé Composé" and "l'Imparfait"; "Le Futur Proche" tense; "Le Futur Simple" in irregular verbs; Future tense expressions; Future time indicators; Future tense in complex sentences; Hypothesis and conditional statements; French aviation terminology; Speaking French in aviation environments.

UMYO105 Basic Computer Skills

3+1 5.0

Introduction to Computer: History of Computer; Operating Systems: Introduction to operating systems; General Characteristics of the Office Software; Office Software: Word processors, Spreadsheets programs, Presentation programs; Effective use of the Internet; Computer and Network Security; Latest Strategic Technologies of Informatics: Factors Affecting Technological Developments; Internet and Technology Addiction and Prevention.

UMYO296 Elective Internship

0+2 5.0

Information about Elective Internship; General Information about the Sector: Organization, Organizational Structure, Distribution of Tasks, Wagon Fleet; Vehicles Information; Environment, Quality, Occupational Health and Safety, Emergency Rules; Periodic Maintenance of Vehicles: Fault Detection and Repair; Traffic Management Systems; Hazardous Waste Information and Hazardous Waste Recycling; Measurement and Control Information; Safe Use of Transport and Fixing Equipment; Using and Interpreting Test Equipments; Using Catalogue; Record Keeping and Reporting; Report Presentation.

UMYO297 Internship

0+2 5.0

Information about Internship; General Information about the Sector: Organization, Organizational Structure, Distribution of Tasks, Wagon Fleet; Vehicles Information; Environment, Quality, Occupational Health and Safety, Emergency Rules; Periodic Maintenance of Vehicles: Fault Detection and Repair; Traffic Management Systems; Hazardous Waste Information and Hazardous Waste Recycling; Measurement and Control Information; Safe Use of Transport and Fixing Equipment; Using and Interpreting Test Equipments; Using Catalogue; Record Keeping and Reporting.