FACULTY OF MECHANICAL ENGINEERING – TRAFFIC & TRANSPORT – BSC

YEARS OF STUDY 2014-2017

Title of subject:	**MATHEMATICS I**
Description of subject:	Subject has to do with knowledge of mathematics that are necessary to facilitate gaining knowledge from other subjects and implementation of knowledge in engineering
Targets of subject:	Introduction of mathematical knowledge necessary to apply on the science of machinery
Expected results of student:	After completing this course /subject/ student will be able to use and understand concepts of advanced math, so that this knowledge will help to use in cases where it is necessary to use mathematical apparatus. Student will be able to: - Implement numerical unions in analysis and presentation of meanings from algebra, also from mathematical analysis. - Know the meaning of matrices and determinants, properties of determinants which applies for solution of linear systems of equations. - Solve system of equations in different and various forms - Knows the meaning of vector, both linear and non-linear operations with vector and implemented them with vector operations in technical and mechanics sciences - Represent different forms of the linear equation, equation of plane, and in space and their mutual positions, - Represent in the form of geometric and analytic surfaces in space forms

Contribution in the load of student (which should correspond with results of gain of the student)

Activity	**Hours**	**Days**	**Weeks**	**Total**
Lectures	2		15	30
Exercises Theoretical /Laboratory	2		15	30
Practical work	1		2	2
Contacts with teacher/consultations	1		8	8
Practice in field	0		0	0
Testing's, seminars	3	3		9
Homework	3	15		45
Time of self study of student (in library or at home)	3	10		30
Final preparation for exam	5	2		10
Time spent in evaluation (tests, questionnaire, final exam)	2	4		8
Projects, presentations, etc.	0		0	0
Total				**172**

Methodology of teaching:	Regular teaching and exercises	
Report between practical and theoretical part of study:	**Theoretical part (%)**	**Practical part (%)**
	50%	**50%**

Basic literature:	1. Ejup Hamiti – Matematika I, II. Elektro Prishtinë 1. Isak Hoxha – Matematika I,I Ndërtimtari, Prishtinë 2. Ismet Dehiri – Matematika I,I Fakultet Teknik, Prishtinë 3. Përmbledhje të ndryshme të detyrave 4. Internet

Title of subject:	**ENGINEERING GRAPHICS**
Description of subject:	Technical standards of drawing ang graphics representation. Scales, dimensioning, tables, scetching. Rules of preparation of technical documentation. Construction of geometrical objects. Projections. Sections. Intersections. Axonometry. Representation of machine drawing.
Targets of subject:	Training of students in the fields of Engineering graphics.
Expected results of student:	Student will have knowledge on graphic representation and technical drawing, lettering, views and projections, types of lines, freehand drafting, scaling of drawings, dimensioning of parts, sections and intersections of geometry bodies. Drawing of machine parts, preparation of drawing projects and documentations.

Contribution in the load of student (which should correspond with results of gain of the student)

Activity	**Hours**	**Days**	**Weeks**	**Total**
Lectures	2		15	30
Exercises Theoretical /Laboratory	2		15	30
Practical work	1		2	2
Contacts with teacher/consultations	1		8	8
Practice in field	0		0	0
Testing's, seminars	3	3		9
Homework	3	15		45
Time of self study of student (in library or at home)	3	10		30
Final preparation for exam	5	2		10
Time spent in evaluation (tests, questionnaire, final exam)	2	4		8
Projects, presentations, etc.	0		0	0
Total				**172**

Methodology of teaching:	Regular teaching, lecturing with presentations in groups, exercises with tasks and examples, seminar tasks and works, tests, homework.	
Report between practical and theoretical part of study:	**Theoretical part (%)**	**Practical part (%)**
	40%	**60%**

Basic literature:

1. Prof.dr. Musli Bajraktari, Dr.sc. Ilir Doçi, *Grafika inxhinierike*, Prishtinë, 2011.
2. K.C. John, *Engineering Graphics for Diploma*, PHI Learning Private Limited, 2009.
3. Colin Simmons, Dennis Maguire, *Manual of Engineering Drawing*, Elsevier, 2004.

Title of subject:	**PHYSICS**
Course description	Knowledge of the fundamental laws of physics, the study of physical quantities and experimental measurement.Presentation of modern physics concepts such as atomic and molecular physics, nuclear and elementary particles. The study of physical concepts which find application in the areas of mechanical engineering.
The goals of matter:	Enabling students to select and apply theoretical and experimental methods of physics to Mechanical Engineering and Mechatronics
Expected results:	Students will acquire: After the end of this course the student will be able to: use theoretical and experimental methods of modern physics which can be applayed in mechanical engineering. To monitor and determine the quality of the technological process in technique, based on knowledge of the phenomena, methods, laws, theories, etc.., which are the subject of physics, and technique courses in other science subjects. Finally, the student can be see from many examples, that there is a correlation of physics and engineering, and from this the importance of physics as a subject.

Contribution in student load (that must correspond with the results of the achievement of the student)

Activity	**hour**	**day/weak**	**total**
lectures	2	15	30
Theoretical exercises / laboratory	2	15	30
practical work	1	2	2
Contacts with the teacher / consultations	1	8	8
exercises in the terrain	0	0	0
Colloquiums, seminars	3	3	9
Homework	3	15	45
Student self-study time (in the library or at home)	3	10	30
Final Preparation for the exam	5	2	10
Time spent on assessment (test, quiz, final exam)	2	4	8
Projects, presentations, etc.	0	0	0
Total			172

Methodology of teaching:	Lectures through presentations, exercises, assignments, examples, seminar papers, tests, discussions etc.

The ratio between theoretical and practical study	***The theoretical part* (%)**	**The practical part (%)**
	50%	**50%**

Literature:	[1].Dr. Skender H. Skenderi & Dr. Rashit Maliqi, Fizika për studentët e fakulteteve teknike, Prishtinë, 2005. [2]. Dr. Skender H. Skenderi & Dr. Rashit Maliqi, Përmbledhje detyrash nga Fizika, Prishtinë. [3]. Dr. Skender H. Skenderi & Dr. Rashit Maliqi, Ushtrime interaktive dhe laboratorike nga Fizika, Prishtinë

Title of subject:	**INFORMATICS AND PROGRAMMING**
Description of subject:	Basic knowledge using MathCad software for solutions of simple and complex mathematic problems. Basics of Matlab use and programming. Basics of Matlab/Simulink, creation of simulation model etc. Basics of object oriented programming – JAVA. Creation and Compiling of Java files for solution of mathematics problems. Use of Java Netbeans IDE editor.
Targets of subject:	Introducing the students to modern software used mostly in mechatronics in general. Oriented towards the student to assimilate the expert software updated versions.
Expected results of student:	Students after the successful completion of this course will: - know basics and important knowledge's for MathCad and Matlab. - have basic knowledge's of objects oriented programming - JAVA. - have their assessments, safe, critical and creative applications of these software's in future professional courses.

Contribution in the load of student (which should correspond with results of gain of the student)

Activity	**Hours**	**Days**	**Weeks**	**Total**
Lectures	2	1	15	30
Exercises Theoretical /Laboratory	2	1	15	30
Practical work	0	0	0	0
Contacts with teacher/consultations	1	5		5
Practice in field	0			
Testing's, seminars	5	2		10
Homework	1	10		10
Time of self study of student (in library or at home)	4	10		40
Final preparation for exam	20	1		20
Time spent in evaluation (tests, questionnaire, final exam)	5	1		5
Projects, presentations, etc.	0	0	0	0
Total				**150 hrs**

Methodology of teaching:	Regular teaching, lecturing with presentations in groups, exercises with tasks and examples, exercises in the field, seminar tasks and works, tests, discussions.	
Report between practical and theoretical part of study:	**Theoretical part (%)**	**Practical part (%)**
	40%	**60%**
Basic literature:	[1] Authorized Lecture notes by course professor. [2] Dr. sc. Ahmet Shala, Applicative Software's and programming, Prishtina 2004- [3] Lewis & Loftus; Java Software Solutions, 6/e, Pearson Education, 2009	

Title of subject:	**ENGLISH LANGUAGE I**

Description of subject:	English as a foreign language teaches topics that assist and promotes students to learn and use professional vocabulary adopting four basic skills of English: reading, comprehension, writing and speaking, that is to communicate at a level that suits students' knowledge, skills and their level of study. Teaching English in this respect, is not intended to teach engineering subjects in English, but to teach/ learn English as it is implicated in engineering , by learning professional words, professional expressions and proper grammar related to the topic. The specific goal of this course is that the students of this educational profile achieve that level of language skills and vocabulary that will be necessary for their work in the future as well as to advance their skills for further studies in professional areas.
Targets of subject:	Teaching ESP in four skills in intermediate level and above
Expected results of student:	Upon completion of this course (subject), students will be able to: 1. Use vocabulary and professional literature 2. Explain their subject field 3. Identify scientific expressions within the unit 4. Compare and 5. Evaluate topics that are developed during the learning process.

Contribution in the load of student (which should correspond with results of gain of the student)

Activity	**Hours**	**Days**	**Weeks**	**Total**
Lectures	2		15	30
Exercises Theoretical /Laboratory				
Practical work				
Contacts with teacher/consultations	1		15	15
Practice in field	0		0	0
Testing's, seminars	2	2		4
Homework	1	10		10
Time of self study of student (in library or at home)	2	10		20
Final preparation for exam	7	2		14
Time spent in evaluation (tests, questionnaire, final exam)	4	2		8
Projects, presentations, etc.	2		15	30
Total				**124**

Methodology of teaching:	Lectures, interactive exercises and individual work, seminar presentations in Power Point, counseling, testing, group work and pair work as well as other linguistic activities	
Report between practical and theoretical part of study:	**Theoretical part (%)**	**Practical part (%)**
	40%	**60%**
Basic literature:	1.Dobrila Nastic, Vera Vuckovic-Kosovac : Engleski Jezik za elektrotehnicke i masinske fakultete, Sarajevo 1984 2.Lindsay White, Engineering – Oxford, 2005. 3.Sarah Cunningham , Peter Moor – Cutting edge-Longman 2005 4. Liz &John Soars, Headway, Oxford University Press	

Title of subject:	**GERMAN LANGUAGE I**

Description of subject	In *German I* lectures, students will learn parts of German grammar which will be used during communication and the topics that will be studied during the semester. Topics will be chosen based on the book "Themen Aktuell 1", units 1-5. The four basic skills of a language; listening, speaking, reading and writing, but also grammar and vocabulary from the topics of "Themen Aktuell 1" will be developed during excericises. This book is separated into units which are organized in topics. Topics are from everyday life. These topics will strengthen the communication skills of the students by learning to respond to different communicative situations. To develop listening skills, during the exercises students will listen to the CD of the book.
Purposes of the subject:	The purpose of *German I* is to develop linguistic skills which will assist students in communicating, reading and writing short texts in German.
Expected results in students?	After completing this course, the student will be able to: • Write different texts by adhering to writing and structural rules of Germantë • To read according to the German language rules and understand the texts • Understand simple conversations and texts • Learn vocabulary from the "Themen Aktuell 1" book • To know the explained grammar from "Themen Aktuell 1", which serves for the purpose of communication

Contribution in the load of student (which should correspond with results of gain of the student)

Activity	**Hours**	**Days/week**	**Total**
Lectures	2	15	30
Contacts with professor/consulting	15 min.	15	4
Exams, seminars	15	1	15
Homework	1	15	15
Time of self-study (library or at home)	3	15	45
Preparation for final exam	10	1	10
Time spent in grading (tests, quizzes, final exam)	2	1	2
Projects, presentations etc.	2	1	2
Total			**123 hours**

Methodology:	The subject is realized through lectures and linguistic excercises. Through the method of conversation – working individually, in pairs and in groups. Taking into consideration that the newest teaching methods are based on the principle of communication, this is how the classes wil be organized. The book is also based on the same principle. So the teaching method is student-centered, where they will always be engaged in conversation. During the exercise hours, there will be a different book, where the students will put their knowledge from the lectures into writing and completing the exercises.
Grading methods:	• Midterm **35%;** Final exam **50%;** Homework and activities **8%;** Participation **7%**
Basic literature:	**1. „*Themen Aktuell* 1", Kursbuch, Lektion 1-5, Hueber Verlag, München, 2007** 2. "*Themen Aktuell* 1", Arbeitsbuch, Lektion 1-5, Hueber Verlag, München, 2007
Additional literature:	1. Dreyer-Schmitt: ***Lehr- und Übungsbuch der deutschen Grammatik*** *(Neubearbeitung)*- Verlag für Deutsch 2. ***Unterwegs***, Band: 5, Ernst Klett Schulbuchverlag, Stuttgart, 2001

Title of subject:	**FRENCH LANGUAGE 1**
Description of the subject:	The acquisition of vocabulary and basic grammar concepts, that enable used automatisms necessary in the practice of spoken and written language: effective capability of the every day language which are required more and mora by the needs of the professional and scientific work. Knowing the civilisation life of the French people's. Developing the skills of students to know better the history and culture of this people.
Aims of the cours :	Training students to communicate and write in this language
Expected achieved results:	Expected learning achived (mean knowledge, abilities and skills that will win the student upon successful completion of this course. To present these achievements are used as verbs: know, recognize, describe, compare, projects, designs, develops, etc.). Upon completion of this course (course) the student will be able to: 1. Communicate, knows and recognizes French language 2. To be able to write for the first and second level. 3. To give a description of the lecture, to compose a short essay, to make comparisons between French and English language. Methodology of teaching: (eg lecture, seminar, discussion, group work, etc..)

Contribution in student load (that must correspond with the results of students)			
Activity	**Hours**	**Days/week**	**Total**
Lecture	2	15	30
Theoretical exercises	2	15	30
Practical work	0	0	
Communication with teacher/consultation	10 minutes	15	2.5
Practice in field	0	0	0
Testing seminars	0	0	0
Homework	2	15	30
Student time of self study (in the library or at home)	3	15	45
Final preparation for the exam	5	-	5
Spend time in evaluation (test , quiz and final exam)	1	1	1
Project ,Presentations etc	5	1	5
Total			148.5 hours

Methodology of Teaching:	Combination methods audio-oral etc. - Lectures, exercises, assignments, examples, tests, discussions etc.

Report between theoretical and practical part of study	***Theoritical part* (%)**	**Practical part (%)**
	30%	**70%**

Basic literature:	Group of the authors Nassia – Kaneman – Paugatch Sandra- Trevisi, Dominique Jennepin, "Café Crème I (Mêthode de français), Hachete, Livre français étrangére, 58, rue Jean Bleuze 9317 Vanves.

Title of subject:	**MATHEMATICS II**
Description of subject:	Subject has to do with knowledge of mathematics that are necessary to facilitate gaining knowledge from other subjects and implementation of knowledge in engineering
Targets of subject:	Introduction of mathematical knowledge necessary to apply on the science of machinery
Expected results of student:	After completing this course /subject/ student will be able to use and understand concepts of advanced math, so that this knowledge will help to use in cases where it is necessary to use mathematical apparatus. Student will be able to: - Build series when general boundaries are given - Implement properties of arithmetic and geometric series for solving various problems - Represent graphically mathematical functions - Implement limit of function for determination of function's continuation - To show the derivative of elementary functions based on properties of the derivative to find the derivative of each function, - Based on the derivative of the function to analyze and graphically represent functions - To find the indefinite integral of some classes of functions - To Implement definite integral in solving some problems of geometry and mechanics

Contribution in the load of student (which should correspond with results of gain of the student)

Activity	**Hours**	**Days**	**Weeks**	**Total**
Lectures	2		15	30
Exercises Theoretical /Laboratory	2		15	30
Practical work	1		2	2
Contacts with teacher/consultations	1		8	8
Practice in field	0		0	0
Testing's, seminars	3	3		9
Homework	3	15		45
Time of self study of student (in library or at home)	3	10		30
Final preparation for exam	5	2		10
Time spent in evaluation (tests, questionnaire, final exam)	2	4		8
Projects, presentations, etc.	0		0	0
Total				**172**

Methodology of teaching:	Regular teaching and exercises	
Report between practical and theoretical part of study:	**Theoretical part (%)**	**Practical part (%)**
	50%	**50%**

Basic literature:

1. Ejup Hamiti – Matematika I, II. Elektro Prishtinë
5. Isak Hoxha – Matematika I,II Ndërtimtari, Prishtinë
6. Ismet Dehiri – Matematika I,II Fakultet Teknik, Prishtinë
7. Përmbledhje të ndryshme të detyrave
8. Internet

Title of subject:	**TECHNICAL MECHANICS I**
Description of subject:	Basic definitions and axioms of statics. Planar system of parallel forces. Arbitrary system of forces in the plan. Graph-statics. Static diagrams. Ordinals. The system of forces in space. Characteristics of transverse system. Analysis of stratin and deformations. Sprain.
Targets of subject:	Implementation of method graphic (geometric) and the analytical (numerical) in the composition and diffraction of various systems of forces and the solving the bearers of of various forms. Analysis of strain and deformation of deformable bodies.
Expected results of student:	Upon completion of this course (subject), students will be able to make contrivance of various systems of forces, then, make solving different bearers statistically certain and analyze various problems of deformations in scope of mechanical engineering , and finally, in of various constructions to make dimensioning of the of various details of those constructions.

Contribution in the load of student (which should correspond with results of gain of the student)

Activity	**Hours**	**Days/Weeks**	**Total**
Lectures	2	15	30
Exercises Theoretical /Laboratory	2	15	30
Practical work	1	2	2
Contacts with teacher/consultations	1/2	15	7,5
Practice in field	0	0	0
Testing's, seminars	2	4	8
Homework	2	10	20
Time of self study of student (in library or at home)	4	8	32
Final preparation for exam	5	4	20
Time spent in evaluation (tests, questionnaire, final exam)	2	5	10
Projects, presentations, etc.	0	0	0
Total			**159,5**

Methodology of teaching:	Regular teaching, lecturing with presentations in groups, exercises with tasks and examples, seminar tasks and works, tests, discussions.	
Report between practical and theoretical part of study:	**Theoretical part (%)**	**Practical part (%)**
	60%	**40%**

Basic literature:

1. Xh. Perjuci, Mekanika Teknike I (Statika), Prishtinë, 2011.
2. Xh. Perjuci, Sh. Buza, H. Demolli, Mekanika Teknike I-Përmbledhje detyrash, Prishtinë,2011.
3. Xh. Perjuci, Rezistenca e Materialeve I, Prishtinë, 1994.
4. Xh. Perjuci, Rezistenca e Materialeve I-Përmbledhje detyrash të zgjidhura, Prishtinë, 1998.
5. Xh. Perjuci, R. Likaj, Rezistenca e Materialeve -Manual, Prishti-në, 2002.
6.. Hibbler R. C., Mechanics of Materials,2004.

Title of subject:	**DRAWING WITH COMPUTER**
Description of subject:	In the context of this course includes the study, research and development of methods of analysis and synthesis of construction. The course covers the following topics of optimization in the construction process, topology optimization in the synthesis of construction, calculation methods in the design of construction, optimal design of gear transmitters.
Targets of subject:	Gaining knowledge about using the computer technology and software for drawing of technical problems in both spatial: 2D and 3D starting from similar problems to the most complex problems.
Expected results of student:	Candidates will be able in theoretical and practical use of such software's in solving daily problems.

Contribution in the load of student (which should correspond with results of gain of the student)

Activity	**Hours**	**Days**	**Weeks**	**Total**
Lectures	2		15	30
Exercises Theoretical /Laboratory	2		15	30
Practical work	8	5		40
Contacts with teacher/consultations	2	10		20
Practice in field	6	6		36
Testing's, seminars	8		2	16
Homework	3		9	27
Time of self study of student (in library or at home)	2		10	20
Final preparation for exam	6	1		6
Time spent in evaluation (tests, final exam)	2	2		4
Projects, presentations, etc.	8	2		16
Total				**245**

Methodology of teaching:	Lectures and consultations. Interactive teching, presentation of tasks, excercises, team work, study for specific matters, independ work.

Report between practical and theoretical part of study:	**Theoretical part (%)**	**Practical part (%)**
	60%	**40%**

Basic literature:

1. Sadullah Avdiu: *Vizatimi me kompjuter*, UP, FIM, Prishtinë, 2008.
2. Sadullah Avdiu: *Vizatimi me kompjuter - Praktikum,* UP, FIM, Prishtinë, 2012
3. George Omura: *AutoCAD 2012 za inzenjere masinstva*, Kompjuter biblioteka 2012

Title of subject:	**BASICS OF TRAFFIC AND TRANSPORTATION TECHNOLOGY**
Description of subject:	General knowledge of transport technology. Road transport system with its components. Rail transport system with its components. Road and rail transport technology of passengers. Road and rail transport technology of goods. Transportation process. Indicators of labor that vehicle at the time. Road and rail transport technology solid, liquid and gases goods. Loading unit, pallets, packages and containers.
Targets of subject:	Training students in the field of application of new technologies in integrated and intermodal transportation systems.
Expected results of student:	After completing this course (course) the student will be able to determine: - The constituent elements of the road and rail transport system, - Technological processes of transport of passengers and goods, - Indicators of labor that vehicle at the time, - Choosing the most appropriate technology for transport of goods and - Most appropriate charging unit during transport of goods.

Contribution in the load of student (which should correspond with results of gain of the student)

Activity	**Hours**	**Days**	**Weeks**	**Total**
Lectures	2		15	30
Exercises Theoretical /Laboratory	2		15	30
visiting transportation companies	5		1	4
Contacts with teacher/consultations	1	8	8	8
Practice in field (laboratory)	0	0		0
Testing's, seminars	2	3		6
Homework	2	5		10
Time of self study of student (in library or at home)	3	14		42
Final preparation for exam	4	4		16
Time spent in evaluation (tests, questionnaire, final exam)	2	3		6
Projects, presentations, etc.	0		0	0
Total				**156**

Methodology of teaching:	Regular teaching, lecturing with presentations in groups, exercises with tasks and examples, seminar tasks and works, tests, homework, and visiting transportation companies.	
Report between practical and theoretical part of study:	**Theoretical part (%)**	**Practical part (%)**
	95%	**95%**
Basic literature:	1.Dr. T. Mlinaric: Osnovi tehnologije prometa - Zeleznica, Zagreb 2008, 2.Dr. Ibrahim Jusufranic: Osnove Drumskog Saobracaja, Travnik 2007, 3 Dr. Snezana Filipovic Osnovi tehnologije saobracaja, Beograd 2005 .	

Title of subject:	**INFORMATION'S AND COMMUNICATIONS SYSTEMS**
Description of subject:	Information's in general. Theory of Information. Information and theory of probability. Contents of Information and Entropy. Divide of signals as information's transmitters. Codes and information encoding. Types of news. Internet, Wide Public Computers Network. Analogue and Digital Devices. Information's systems in traffic and transport. Communications devices in transport. GIS – Geographic Information's System. Information's system of Telematics systems in transport. GSM, CDMA network and protocols. Development programs information-communications PROMETHEUS and DRIVE. Internet access through GPS (GPRS, UMTS) systems.
Targets of subject:	Introducing students with update - actual information's. General information's regarding on **information's and communications** devices and especially in transport. This course represents continuity of skills from Informatics and Communications devices and is a good base for future studies.
Expected results of student:	After the successful completion of this course student can/will: 1. Know for information's and their types, history and their development, etc. 2. Know Information devices which are mostly used in transport and their development trends. 3. Know for Information's and Communications Systems as GIS, GSM (GPRS, UMTS), CDMA, Telematics etc. 4. Know Communications devices, especially their use in transport. 5. Have basic knowledge on Transport developing programs PROMETHEUS and DRIVE which are actual in Europe (EU), student will be informed with actual development of Transport.

Contribution in the load of student (which should correspond with results of gain of the student)

Activity	**Hours**	**Days**	**Weeks**	**Total**
Lectures	2	15	30	2
Exercises Theoretical /Laboratory	2	15	30	2
Practical work	0	0	0	0
Contacts with teacher/consultations	1	5	5	1
Practice in field	0	0	0	0
Testing's, seminars	5	2	10	5
Homework	1	10	10	1
Time of self study of student (in library or at home)	4	10	40	4
Final preparation for exam	20	1	20	20
Time spent in evaluation (tests, questionnaire, final exam)	5	1	5	5
Projects, presentations, etc.	0	0	0	0
Total				**150 hrs**

Methodology of teaching:	Regular teaching, lecturing with presentations in groups, exercises with tasks and examples, exercises in the field, seminar tasks and works, tests, discussions.

Report between practical and theoretical part of study:	***Theoretical part (%)***	***Practical part (%)***
	50%	**50%**

Basic literature:	Authorized Lecture notes by course professor. *[4]* Dr. sc. Ahmet Shala, Informimet dhe Komunikimet në Komunikacion, Prishtinë 2006-2011 *[5]* Dr. sc. Ahmet Shala, Sistemet e Informimit dhe Komunikimit, Prishtinë 2012

Other Literature :	[1] Denis McQuail's; *Mass Communication Theory,* London, UK, 2000. [2] K. Shigemoto; *Weber-Fechner's Law and Demand Function,* Tezukayama, Japan, [3] Denis McQuail's; *Mass Communication Theory,* London, UK, 2000. [4] Jelusic, F: Informacije i komunikacije, Zagreb, 1999.

Title of subject:	**MACHINE ELEMENTS**
Description of subject:	Tolerances, types and deployment systems. Types of cargo. Fillets and links filetore. Calculations filetor broadcasters and bolts of different groups. Buttons, types and use. Transmitter with belts and chains. Broadcasters with dhëmbëzorë, durability dhëmbëzorëve. Axes and axes, the calculation prior and final tyre.Dorëzat, use and calculation. Bearings-types and their calculation. Joints, types and calculation.
Targets of subject:	Recognition of students with details of the machines, which are used in various machines in general. The course examines in particular the details, which are used in the constructions of major road and rail traffic and aids (the mechanisms of loading and unloading of goods, etc.).
Expected results of student:	Upon completion of this course (subject), students will be able to: - Details of the machine in general to understand the supported forms, type, material and Function. - To understand the modus operandi in detail various loads during operation of the respective machines. - To make the calculation of the relevant details under the action of loads. - To know how to apply the methods of determining the levels of security and service life vital details of the machine. - For parts studied in the course know how to apply the methods of operation and maintenance of machines according to technical regulations.

Contribution in the load of student (which should correspond with results of gain of the student)

Activity	**Hours**	**Days/ Weeks**	**Overall**
Lectures	2	15	30
Exercises Theoretical /Laboratory	2	15	30
Practical work	1	5	5
Contacts with teacher/consultations	1	5	5
Practice in field	1	5	5
Testing's, seminars	2	3	6
Homework	8	3	24
Time of self-study of student (in library or at home)	5	10	50
Final preparation for exam	10	2	20
Time spent in evaluation (tests, questionnaire, final exam)	2	3	6
Projects, presentations, etc.	0	0	0
Total			181

Methodology of teaching:	Regular teaching, lecturing with presentations in groups, exercises with tasks and examples, seminar tasks and works, tests, homework.	
Report between practical and theoretical part of study:	**Theoretical part (%)**	**Practical part (%)**
	60%	**40%**
Basic literature:	[1]. Dr. sc. Nijazi Ibrahimi, "Detalet e Makinave I", Prishtinë 2004,	

	[2]. Dr. sc. Nijazi Ibrahimi, "Detalet e Makinave II", Prishtinë 2006, [3]. Dr.sc. Azem Kyçyku, "Përmbledhje detyrash të zgjidhura të provimeve nga Detalet e Makinave", Prishtinë 2012. [4]. Dr.sc. Azem Kyçyku, "Udhëzimet e detyrave grafike nga Detalet e Makinave " (Praktikum), Prishtinë 2010.
Title of subject:	**TECHNICAL MECHANICS II**
Description of subject:	Knowledge in the field of kinematics of material point and rigid body. Movement of bodies in terms of dynamics, i.e. considering the action of forces in motion. Linear oscillations of material point - body under the action of various forces & resistances.
Targets of subject:	Recognition and deepening of knowledge on kinematics and dynamics of material point and rigid body. Sufficient knowledge of the laws - the principles of kinematics and dynamics as part of applied mechanics. This course follows Technical Mechanics I.
Expected results of student:	Students after the successful completion of this course will: 1. Know about the kinematics of material point and rigid body. 2. Know the dynamics of free and constrained material point. 3. Can analyze material point straight-line oscillations

Contribution in the load of student (which should correspond with results of gain of the student)

Activity	**Hours**	**Days**	**Weeks**	**Total**
Lectures	2	1	15	30
Exercises Theoretical /Laboratory	2	1	15	30
Practical work	0	0	0	0
Contacts with teacher/consultations	1	5		5
Practice in field	0			
Testing's, seminars	5	2		10
Homework	1	10		10
Time of self study of student (in library or at home)	4	10		40
Final preparation for exam	20	1		20
Time spent in evaluation (tests, questionnaire, final exam)	5	1		5
Projects, presentations, etc.	0	0	0	0
Total				**150 hrs**

Methodology of teaching:	Regular teaching, lecturing with presentations in groups, exercises with tasks and examples, exercises in the field, seminar tasks and works, tests, discussions.	
Report between practical and theoretical part of study:	**Theoretical part (%)**	**Practical part (%)**
	50%	**50%**
Basic literature:	1. Dr. sc. Ahmet Shala, Mekanika Teknike II, lectures & notes, Prishtina 2007-2011 2. Dr. sc. Ahmet Geca: Dinamika, Prishtina, 2003 3. Dr. sc. Fehmi Krasniqi, Kinematika, Lectures & notes, Prishtina 2008	

Title of subject:	**FUNDAMENTALS OF MOTOR VEHICLE**
Description of subject	Conception the construction of motor vehicles, internal combustion engines (ICE), system of power transmission, system of braking, system of steering and system of suspension. Intelligent systems and lighting.
Target of subject:	Recognize students with: construction of ICE and vehicle, system of vehicle and intelligent and lighting system
Expected results of student:	Student will have knowledge on construction of vehicles, the role of the engine and its types, types of vehicle systems: power transmission, braking, steering, suspension. recognize intelligent and lighting systems

Contribution in the load of student (which should correspond with results of gain of the student)

Activity	**Hour**	**Day/week**	**Overall**
Lectures	2	15	30
Exercises Theoretical/Laboratory	2	15	30
Practical work	0	0	0
Contacts with teacher/consultations	1	5	5
Practice in field	0	0	0
Testing's, seminars	10	1	10
Homework	2	10	20
Time of self study of student (in library or at home)	5	10	50
Final preparation for exam	5	1	5
Time spent in evaluation (tests, questionnaire, final exam)	5	1	5
Projects, presentations, etc.	0	0	0
Total			155

Methodology of teaching:	The material provided in this course explored through lectures in electronic formats, discussions with students, seminar papers and field visits	
Report between practical and theoretical part of study:	**Theoretical part (%)**	**Practical part (%)**
	50%	**50%**

Literature

Basic literature:	[1] Dr. sc. Heset Cakolli, "Bazat e automjeteve motorike", Prishtinë, 2012 [2] Dr. sc. Bashkim Baxhaku, "Motorët me djegie të brendshme", Prishtinë 2003 [3] Garett, T. K; K. Newton; W. Steds: The Motor Vehicle, Reed Educational and Professional Publishing Ltd, 2001

Title of subject:	**BASICS OF TRAFFIC INFRASTRUCTURE**
Description of subject:	The importance of traffic infrastructure. Types of infrastructure (objects): road, rail, air infrastructure etc. Main elements and parameters of the traffic infrastructure. Strategies and policies of the traffic infrastructure in Kosovo, SEE countries and the EU. Links to the pan- European corridors. Geographical scope. Status of pan-European corridors of transport.
Targets of subject:	Acquiring knowledge necessary engineering infrastructure (facilities) as a reliable basis for professional and scientific work in all areas of traffic engineering.
Expected results of student:	After completing this course (course) students will be able to: 1. Get to know the types and main elements of traffic infrastructures, 2. Be familiar with the strategies and policies of infrastructure in Kosovo, Albania and beyond, 3. To understand the methodology and design phases of the traffic infrastructure (road, railway etc), 4. To understand and analyze the components of project documentation and to communicate in a professional level in the field of traffic infrastructure, *5.* To learn procedures and analysis of the relationship that exists between infrastructure and traffic.

Contribution in the load of student (which should correspond with results of gain of the student)

Activity	**Hours**	**Days/Weeks**	**Total**
Lectures	2	15	30
Exercises Theoretical /Laboratory	2	10	20
Practical work	0	0	0
Contacts with teacher/consultations	1	5	5
Practice in field	1	10	10
Testing's, seminars	10	2	20
Homework	1	20	20
Time of self study of student (in library or at home)	4	10	40
Final preparation for exam	5	1	5
Time spent in evaluation (tests, questionnaire, final exam)	5	1	5
Projects, presentations, etc.	0	0	0
Total			**155**

Methodology of teaching:	The material provided in this course explored through lectures in electronic formats, discussions with students, seminar papers and field visits	
Report between practical and theoretical part of study:	**Theoretical part (%)**	**Practical part (%)**
	70 %	**30 %**
Basic literature:	1. S.Avdiu: *Bazat e Infrastrukturës së komunikacionit*, FIM-Departamenti Komunikacion, Prishtinë, 2013.	

	2. S. Avdiu, R. Duraku: *Detyra të zgjidhura nga Bazat e Infrastrukturës në Komunikacion*, FIM-Departamenti Komunikacion, Prishtinë, 2012. 3. *Legac. I.: Cestovne Prometnice*, FPZ, Zagreb, 2006. 4. Katanic J., Maletin M., Andjus V.: *Projektovanje puteva*, Gradevinska knjiga, Beograd,1989, 5. A. Cvetanovic: *Odrzavanje puteva*, Gradevinski fakultet, Beograd, 1993,

Title of subject:	**ENGLISH LANGUAGE II**
Description of subject:	English as a foreign language teaches topics that assist and promotes students to learn and use professional vocabulary adopting four basic skills of English: reading, comprehension, writing and speaking, that is to communicate at a level that suits students' knowledge, skills and their level of study. Teaching English in this respect, is not intended to teach engineering subjects in English, but to teach/ learn English as it is implicated in engineering , by learning professional words, professional expressions and proper grammar related to the topic. The specific goal of this course is that the students of this educational profile achieve that level of language skills and vocabulary that will be necessary for their work in the future as well as to advance their skills for further studies in professional areas.
Targets of subject:	Teaching ESP in four skills in intermediate level and above
Expected results of student:	Upon completion of this course (subject), students will be able to: 1. Use vocabulary and professional literature 2. Explain their subject field 3. Identify scientific expressions within the unit 4. Compare and 5. Evaluate topics that are developed during the learning process.

Contribution in the load of student (which should correspond with results of gain of the student)

Activity	**Hours**	**Days**	**Weeks**	**Total**
Lectures	2		15	30
Exercises Theoretical /Laboratory				
Practical work				
Contacts with teacher/consultations	1		15	15
Practice in field	0		0	0
Testing's, seminars	2	2		4
Homework	1	10		10
Time of self study of student (in library or at home)	2	10		20
Final preparation for exam	7	2		14
Time spent in evaluation (tests, questionnaire, final exam)	4	2		8
Projects, presentations, etc.	2		15	30
Total				**124**

Methodology of teaching:	Lectures, interactive exercises and individual work, seminar presentations in Power Point, counseling, testing, group work and pair work as well as other linguistic activities

Report between practical and theoretical part of study:	**Theoretical part (%)**	**Practical part (%)**
	40%	**60%**

Basic literature:	1.Dobrila Nastic, Vera Vuckovic-Kosovac : Engleski Jezik za elektrotehnicke i masinske fakultete, Sarajevo 1984 2.Lindsay White, Engineering – Oxford, 2005. 3.Sarah Cunningham , Peter Moor – Cutting edge-Longman 2005 4. Liz &John Soars, Headway, Oxford University Press

Title of subject:	**GERMAN LANGUAGE II**
Description of subject	In *German I* lectures, students will learn parts of German grammar which will be used during communication and the topics that will be studied during the semester. Topics will be chosen based on the book "Themen Aktuell 1", units 1-5. The four basic skills of a language; listening, speaking, reading and writing, but also grammar and vocabulary from the topics of "Themen Aktuell 1" will be developed during excericises. This book is separated into units which are organized in topics. Topics are from everyday life. These topics will strengthen the communication skills of the students by learning to respond to different communicative situations. To develop listening skills, during the exercises students will listen to the CD of the book.
Purposes of the subject:	The purpose of *German I* is to develop linguistic skills which will assist students in communicating, reading and writing short texts in German.
Expected results in students?	After completing this course, the student will be able to: • Write different texts by adhering to writing and structural rules of German • To read according to the German language rules and understand the texts • Understand simple conversations and texts • Learn vocabulary from the "Themen Aktuell 1" book • To know the explained grammar from "Themen Aktuell 1", which serves for the purpose of communication

Contribution in the load of student (which should correspond with results of gain of the student)

Activity	**Hours**	**Days/week**	**Total**
Lectures	2	15	30
Contacts with professor/consulting	15 min.	15	4
Exams, seminars	15	1	15
Homework	1	15	15
Time of self-study (library or at home)	3	15	45
Preparation for final exam	10	1	10
Time spent in grading (tests, quizzes, final exam)	2	1	2
Projects, presentations etc.	2	1	2
Total			**123 hours**

Methodology:	The subject is realized through lectures and linguistic excercises. Through the method of conversation – working individually, in pairs and in groups. Taking into consideration that the newest teaching methods are based on

	the principle of communication, this is how the classes wil be organized. The book is also based on the same principle. So the teaching method is student-centered, where they will always be engaged in conversation. During the exercise hours, there will be a different book, where the students will put their knowledge from the lectures into writing and completing the exercises.
Grading methods:	• Midterm **35%;** Final exam **50%;** Homework and activities **8%;** Participation **7%**
Additional literature:	1. Dreyer-Schmitt: ***Lehr- und Übungsbuch der deutschen Grammatik*** *(Neubearbeitung)*- Verlag für Deutsch 2. ***Unterwegs***, Band: 5, Ernst Klett Schulbuchverlag, Stuttgart, 2001

Title of subject:	**FRENCH LANGUAGE 2**
Description of the course:	This course is a continuation of the First Cours of the French language and is dedicated to the study of more complex sentences, definitions and principles of the basic syntax of French language. Continuing the French language learning at a higher level, the student will be familarized even in more detail in terms of grammar of the French language as well as phonetics. Important place will take fluent communication and in this way the students will have the ability to pursue an academic program in French. Students will be able to distinguish nature and functions of traditional grammar; analyze complex sentences from the points of views and different syntactic approaches,imaginative and functional
The Goals of cours:	The aim of the cours for the French language are: that the students during this period of time to benefit basic knowledge, of this language, to communicate fluently and to have elementary basis of the french language.
Expected achieved results:	Good knowledge of general language and main theoretical approaches applied in French, as well as the ability to use the French language in teaching; Excellent communication skills in French To be familiarized with French culture and civilisation With aim to train students for an basic level

Contribution in student load (that must correspond with the results of students)

Activity:	**Hours**	**Day/week**	**Total**
Lectures	2	15	30
Theoretical exercises	2	15	30
Practical work	0	0	
Comunication with teacher/consultation	10minutes	15	2.5
Homework	2	15	30
Student self-study time (in the library or at home)	3	15	45
Final preparation for the exam	5	-	5
Spend time on evaluation (test , quiz and final exam)	1	1	1

Project and Presentation etc	5	1	5
Total			148.5 hours

Methodology of teaching:	Combination methods audio-oral etc. - Lectures, exercises, homework's, concrete examples, tests, discussions etc.	
Report between theoretical and practical part of study	***Theoretical part* (%)**	**Practical part (%)**
	25%	**75%**
Basic literature:	Group of the authors Nassia – Kaneman – Paugatch Sandra- Trevisi, Dominique Jennepin, "Café Crème I (Mêthode de français), Hachete, Livre français étrangére, 58, rue Jean Bleuze 9317 Vanves.	

Title of subject:	**ACADEMIC WRITING**
Description of subject:	Introducing the students to academic reading, academic writing and other forms of reports and the presentation of the paper. Meyer discussed in this course is the basis for knowledge of Albanian language, grammar and academic writing rules
Targets of subject:	Training students in the field of Albanian language and academic writing.
Expected results of student:	Knowledge, training and application of the knowledge acquired in this course to present ideas in written form and through posters.

Contribution in the load of student (which should correspond with results of gain of the student)

Activity	**Hours**	**Days**	**Weeks**	**Total**
Lectures	2		15	30
Exercises Theoretical /Laboratory	0		0	0
Practical work	0		0	0
Contacts with teacher/consultations	1		5	5
Practice in field	0		0	0
Testing's, seminars	3		3	9
Homework	2		15	30
Time of self study of student (in library or at home)	3		10	30
Final preparation for exam	3		3	9
Time spent in evaluation (tests, questionnaire, final exam)	3		3	9
Projects, presentations, etc.	2		3	6
Total				128

Methodology of teaching:	Lectures through presentations, seminar papers, tests, discussions	
Report between practical and theoretical part of study:	**Theoretical part (%)**	**Practical part (%)**
	100%	**0%**
Basic literature:	[1] Dr. sc. Januz Dervodeli, Shkrim akademik, Gjilan, 2007, [2] Elona Boce, Si te shkruajmë një punim kërkimor, Qendra për arsim demokratik, Tirane, 2004	

	[3] Sylvan Barnet, Pat Balanca, Marcia Stubbs, Shkrimi akademik, Tirane, 2008.

Title of subject:	**ECONOMICS OF TRAFFIC ENGINEERING**
Description of subject:	The course aims to acquire students the necessary theoretical and practical knowledge; of traffic subsystem, the implementation of traffic functions, traffic policies, construction of traffic infrastructure, economic performance factors of road traffic, external economy and external road traffic diseconomy , infrastructure policies and factors of external economy and external diseconomy, methods of economic evaluation of plans for construction of traffic infrastructure, economy of development plans, description and analysis of projects for traffic system, etc.
Targets of subject:	*Students of Traffic engineering Dpt* The subject aims to acquire the latest knowledge in the economics of traffic and transportation, research methods and techniques of economics and organisation of transport system, as well as the latest and advanced theories and practices in order to enable students to apply knowledge in these areas.
Expect results of student:	• to know about the forms of traffic organization • to understand the road traffic and forms of organization of road traffic • to describe the structure of the transport system • to distinguish the costs and business exploitation of the transport system, • to become familiar with the traffic policies, traffic infrastructure construction and operation of economic factors, • to understand the external economic and diseconomic factors, • to analyze methods of economic evaluation of road infrastructure projects, • to estimate calculations costs of the means of transport and of development, description and analysis traffic system projects etc.

Contribution in the load of student (which should correspond with results of gain of the student)

Activity	**Hours**	**Days**	**Weeks**	**Total**
Lectures	2	15	15	30
Exercises Theoretical /Laboratory	0	0	15	0
Practical work	1	10		10
Contacts with teacher/consultations	1	10		10
Testing's, seminars	0	0		0
Homework	2	4		8
Time of self study of student	4	2		8
Final preparation for exam	2	15		30
Time spent in evaluation	1	15		15
Projects, presentations, etc.	1	5		5
Total				**126**

Methodology of teaching:	Regular teaching, lecturing with presentations in groups, exercises with tasks and examples, exercises in the field, seminar tasks and works, tests, discussions.

Report between practical and theoretical part of study:	Test and participation (%)	Final Examination (%)
	65%	35%

Basic literature:	1. Ramë Likaj; "Ekonomika e Komunikacionit", Ligjërata të autorizuara, FIM 2012, 2. Qemal Buçinca "Organizimi dhe ekonomika e komunikacionit", Prishtinë 2003, 3. Qemal Buçinca, Ramë Likaj "Organizimi dhe ekonomika e komunikacionit", Përmbledhje detyrash, Prishtinë 2005, 4. Damir Simulcik; "Ekonomika i Organizacija Cestovnog Prometa", FSB, Zagreb, 2000
Additional literature:	1. Kolaric, N., "Menadzment u soubracaju", Beograd 2007, 2. Šefkija Č., Bošnjak, I., "Menadzment u Transportu i Komunikacijama, Sarajevë dhe Zagreb 2004, 3. Vešović, V., Bojovic, N., "Organizacija Saobracajnih Preduzeca", Beograd 2002. 4. Željko Radačić: "Ekonomia prometnog sistema", Zagreb, 2000.

Title of subject:	**ELECTROTECHNICS**
Description of subject:	After completing this course /subject/ student will be able to: 1. Solve basic problems from the field of electrical engineering. 2.Use methods for solving the problems of electric and magnetic field, using methods for solving electrical circuits of constant and variable currents, 3. Apply the knowledge gained in the fields of Mechanical Engineering
Targets of subject:	Training students in the field of Electrical Engineering
Expected results of student:	Studentët të fitojnë bazat e trajtimit të problemeve të inxhinierisë elektrike

Contribution in the load of student (which should correspond with results of gain of the student)

Activity	Hours	Days	Weeks	Total
Lectures	2		15	30
Exercises Theoretical /Laboratory	2		15	30
Practical work	1		2	2
Contacts with teacher/consultations	1		8	8
Practice in field	0		0	0
Testing's, seminars	3	2		6
Homework	3	11		33
Time of self study of student (in library or at home)	3	10		30
Final preparation for exam	5	2		10
Time spent in evaluation (tests, questionnaire, final exam)	2	4		8
Projects, presentations, etc.	0		0	0
Total				**157**

Methodology of teaching:	Regular teaching, numerical exercises discussions with students,

Report between practical and theoretical part of study:	**Theoretical part (%)**	**Practical part (%)**
	50%	**60%**
Basic literature:	1.Nexhat Orana, *Bazat e elektroteknikës 1*, Prishtinë, 1994 2.Nexhat Orana, *Bazat e elektroteknikës 2*, Prishtinë, 1994	

Title of subject:	**ROADS AND OBJECTS IN TRAFFIC**		
Description of subject	History and development of roads and objects on traffic, Classification, Road networks, Technical elements of roads, Construction of roads The criteria and methodologies, Modern methods, Software application, Management of road construction stages.		
Target of subject:	Recognize students with: The basic principles of roads and objects road, The classification of roads, Road networks, Methodologies and application of software.		
Expected results of student:	Student will have knowledge of roads and objects on road, Classification, Road networks, Technical elements of roads, Construction of roads, The criteria and methodologies, Modern methods, Software application, Management of road construction stages.		
Contribution in the load of student (which should correspond with results of gain of the student)			
Activity	**Hour**	**Day/week**	**Overall**
Lectures	2	15	30
Exercises Theoretical/Laboratory	2	15	30
Practical work	0	0	0
Contacts with teacher/consultations	1	5	5
Practice in field	0	0	0
Testing's, seminars	10	1	10
Homework	2	10	20
Time of self study of student (in library or at home)	5	10	50
Final preparation for exam	5	1	5
Time spent in evaluation (tests, questionnaire, final exam)	5	1	5
Projects, presentations, etc.	0	0	0
Total			155
Methodology of teaching:	The material provided in this course explored through lectures in electronic formats, discussions with students, seminar papers and field visits		

Report between practical and theoretical part of study:	Theoretical part (%)	Practical part (%)
	50%	50%
Basic literature:	[1] Dr. sc. Ferat SHALA, "Rrugët dhe objektet ne komunikacion", Prishtinë, 2013 [2] Akad. Josip Bozhiqeviq/prof.dr.Ivan Lega, "Cestovne Prometnice" Zagreb,2001 [3] Prof.dr. Shkelqim Zeqo "Inxhinieria dhe Planifikimi i transportit" Tiranë, 2006	

Title of subject:	**FREIGHT FORWARDING**
Description of subject:	The importance of the freight forwarding, freight forwarding jobs, Freight Forwarders obligations and transport agents, freight documentation, tariffs and calculation of transportation costs.
Targets of subject:	The role of freight forwarding in the transport of goods, the kinds of work performed in freight, duties of forwarding agent and shipping agents, forwarding role of organizations, calculation of costs, types of documents used, etc. Basic forwarding operations. Transport and shipping fees. Provision of goods. Distribution of goods. Special works of forwarding agent. Knowledge about International forwarding.
Expected results of student:	Knowledge of regulations and procedures for the transport of goods. Knowledge of documentation. Knowing forwarding works. Knowledge of transport and shipping arrangements. Calculation of freight forwarding tasks.

Contribution in the load of student (which should correspond with results of gain of the student)

Activity	Hours	Days	Weeks	Total
Lectures	2		15	30
Exercises Theoretical /Laboratory	2		15	30
Practical work	1		2	2
Contacts with teacher/consultations	1		10	10
Practice in field	2		1	2
Testing's, seminars	2		4	8
Homework	2	5		10
Time of self study of student (in library or at home)	3	11		33
Final preparation for exam	5	3		15
Time spent in evaluation (tests, final exam)	2	6		12
Projects, presentations, etc.	1	2		2
Total				**154**

Methodology of teaching:	Regular teaching, lecturing with presentations in groups, exercises with tasks and examples, exercises in the field, seminar tasks and works, tests, discussions.	
	Theoretical part (%)	**Practical part (%)**

Report between practical and theoretical part of study:	**50%**	**50%**
Basic literature:	[1] Prof. Dr. Musli Bajraktari, Dr. sc. Ilir Doçi, *Shpedicioni*, dispensë, Prishtinë, 2012. [2] David Lowe, *The Transport Manager's and Operator's Handbook 2009*, Kogan Page Ltd | 2008. [3] Jörn Schönberger, *Operational Freight Carrier Planning*, Springer Berlin Heidelberg New York, 2003. [4] Dr Milorad Kilibarda dipl. ing., *Špedicija i agencijsko poslovanje*, Saobraćajni Fakultet, Beograd, 2005.	

Title of subject:	**TRAFFIC AND TRANSPORT PLANNING**
Description of subject:	Analysis and evalution of the relevant options for the development of road traffic system (alternative corridors of the main roads, the impact of relevant factors in traffic planning). within the course will apply modern methods for planning movements.
Targets of subject:	Introducing the students to the basic concepts of traffic and transport planning and road transport systems which are necessary to move in the urban conditions. .
Expected results of student:	After completing this course (course) students will be able to: 6. to know the basic concepts of planning in traffic . 7. to calculate the demand for various movements in urban areas 8. collecting and analyzing data, planning and survey techniques 9. to know the basic criteria for the planning of the network and provide alternative traffic planning.

Contribution in the load of student (which should correspond with results of gain of the student)

Activity	**Hours**	**Days/Weeks**	**Total**
Lectures	2	15	30
Exercises Theoretical /Laboratory	2	10	20
Practical work	0	0	0
Contacts with teacher/consultations	1	5	5
Practice in field	1	10	10
Testing's, seminars	10	2	20
Homework	1	20	20
Time of self study of student (in library or at home)	4	10	40
Final preparation for exam	5	1	5
Time spent in evaluation (tests, questionnaire, final exam)	5	1	5

Projects, presentations, etc.	0	0	0
Total			**155**

Methodology of teaching:	The material provided in this course explored through lectures in electronic formats, discussions with students, seminar papers and field visits	
Report between practical and theoretical part of study:	**Theoretical part (%)**	**Practical part (%)**
	70%	**30%**
Basic literature:	1. Mr.sc. Mevlan Bixhaku "Planifikimi në komunikacion" – 2011- authorized lectures 2. Jovic, J:, Planiranje Saobracaja, Beograd, SFB, 2009 3. .Kos.G. Promento I prostorno planiranje, FPZ, Zagreb, 2011 4. Transport Planning and Traffic Engineering by Coleman A. O'Flaherty (Editor, 2008	

Title of subject:	**MECHANIZATION OF LOADING AND UNLOADING**
Description of subject:	Importance of loading and unloading mechanization. Parameters of calculation and factors of performance. Principles of materials handling. Classification of materials and their flow. Unit loads and preparation of materials. Mechanization devices-Transporters. Elevators. Cranes. Forklifts. Carriages. Trucks. Hoisting equipment. Auxiliary equipment. Multimodal Systems. Proper loading of lads. Organization. Work expenses.
Targets of subject:	Training of students in the fields of Mechanization of loading and unloading processes and systems.
Expected results of student:	Gaining knowledge about mechanisms of loadin and unloading, calulation parameters and principles of materials handling. Knowing of materials and their preparation for loading. Loading and unloading devices – forkllifts, cranes, elevators, carriages, trucks. Unit loads. Rules of loading/unloading. Understanding multimodal systems.

Contribution in the load of student (which should correspond with results of gain of the student)				
Activity	**Hours**	**Days**	**Weeks**	**Total**
Lectures	2		15	30
Exercises Theoretical /Laboratory	2		15	30
Practical work	2	2		4
Contacts with teacher/consultations	1		5	5
Practice in field	1	10		10
Testing's, seminars	8	1		8
Homework	2		6	12
Time of self study of student (in library or at home)	4	9		36
Final preparation for exam	5	1		5
Time spent in evaluation (tests, questionnaire, final exam)	2	2		4
Projects, presentations, etc.	2	1		2

Total				146

Methodology of teaching:	Regular teaching, lecturing with presentations in groups, exercises with tasks and examples, seminar tasks and works, tests, homework.	
Report between practical and theoretical part of study:	**Theoretical part (%)**	**Practical part (%)**
	50%	**50%**
Basic literature:	[1] Siddhartha Ray, *Introduction to Materials Handling, 2008.* [2] Heinrich Martin, Peter Romisch, Andreas Weidlich, *Materialfluss-technik*, 2008. [3] Joseph A. MacDonald, W. E. Rossnagel, Lindley R. Higgins, *Handbook of Rigging-Lifting, Hoisting, and Scaffolding for Construction and Industrial Operations*, Mc Graw Hill, New York, 2009.	

Title of subject:	**TRAFFIC PSYCHOLOGY**
Description of subject:	Traffic psychology is a discipline of psychology that studies the relationship between psychological processes and the behavior of road users. In general, traffic psychology aims to apply theoretical aspects of psychology in order to improve traffic mobility by helping to develop and apply accident countermeasures, as well as by guiding desired behaviors through education and the motivation of road users.
Targets of subject:	Training students in the field of traffic psychology, behavior in traffic, effects of accidents on road participants, education about traffic.
Expected results of student:	Students will learn about relationship between psychological processes and the behavior of road users and learn theoretical aspects of psychology in order to improve traffic.

Contribution in the load of student (which should correspond with results of gain of the student)

Activity	**Hours**	**Days**	**Weeks**	**Total**
Lectures	2		15	30
Exercises Theoretical /Laboratory	2		15	30
Practical work	2		2	4
Contacts with teacher/consultations	1		5	5
Practice in field	1		1	1
Testing's, seminars	8		1	8
Homework	2	7		14
Time of self study of student (in library or at home)	4	8		32
Final preparation for exam	5	1		5
Time spent in evaluation (tests, final exam)	2	2		4
Projects, presentations, etc.	2	1		2

Total				**135**
Methodology of teaching:	Regular teaching, lecturing with presentations in groups, exercises with tasks and examples, exercises in the field, seminar tasks and works, tests, discussions.			
Report between practical and theoretical part of study:	**Theoretical part (%)**	**Practical part (%)**		
	70%	**30%**		
Basic literature:	*1.* Bryan E. Porter, *Handbook of Traffic Psychology*, ISBN: 0123819849 , 2011.			

Title of subject:	**THEORY OF TRAFFIC FLOW**
Description of subject:	Analysis of basic traffic flow parameters.Capacity and level of service of highways, twolanes roads, multilane roads. Pedestrian and bicycle level of service. In this course also treated capacity and level of service in unsignalized intersections.
Targets of subject:	Recognize students with traffic flow theory and capacity and level of service of capacity and level of service of highway, two lane roads multilane roads and traffic intersections.
Expected results of student:	After completing this course (subject) students should be able to: - Know the role and tasks of the traffic flow theory - Know the effects of the basic flow parameters - Analyze the traffic flow - Calculate capacity and level of service of highway, two lane roads multilane roads and traffic intersections. - To make optimal choices of traffic parameters and make their application in practice.

Contribution in the load of student (which should correspond with results of gain of the student)

Activity	**Hours**	**Days**	**Weeks**	**Total**
Lectures	2	15		30
Exercises Theoretical /Laboratory	2	10		20
Practical work	0	0		0
Contacts with teacher/consultations	1	5		5
Practice in field	1	10		10
Testing's, seminars	20	1		20
Homework	2	10		20
Time of self study of student	4	10		40

(in library or at home)			
Final preparation for exam	5	1	5
Time spent in evaluation (tests, questionnaire, final exam)	5	1	5
Projects, presentations, etc.	0	0	0
Total			**155**

Methodology of teaching:	The material provided in this course explored through lectures in electronic formats, discussions with students, seminar papers and field visits	
Report between practical and theoretical part of study:	**Theoretical part (%)**	**Practical part (%)**
	70%	**30%**
Basic literature:	1. N.Ibrahimi, M.Bixhaku "Kapaciteti i infrastrukturës rrugore" Prishtinë, 2011 2. N.Ibrahimi, M.Bixhaku "Teoria e qarkullimit ne komunikacion dhekapaciteti i rrugëve" Prishtinë, 2010 3. Highway Capacity Manual, Washington D.C.,2000.	

Title of subject:	**TRANSPORTATION VEHICLES IN TRAFFIC**
Description of subject:	History of development and their classification. The impact of transport on society. Classification of vehicles on road traffic. The types of road vehicles. Characteristics of transport vehicles in road traffic. The distribution of load in the vehicle. Tyres. The vehicle identification number (VIN-signs). Means of air transportation.
Targets of subject:	Training students in the field of transport vehicles in traffic
Expected results of student:	After completing this course (course) the student will learn: 1.Transportation vehicles in traffic, types and their use 2. Characteristics of vehicles in traffic 3.Elementet of vehicles in traffic 4.Rregullativen on movement of vehicles in traffic

Contribution in the load of student (which should correspond with results of gain of the student)

Activity	**Hours**	**Days**	**Weeks**	**Total**
Lectures	2		15	30
Exercises Theoretical /Laboratory	2		15	30
Practical work	1		2	2
Contacts with teacher/consultations	1		10	10
Practice in field	2		1	2
Testing's, seminars	2		4	8
Homework	2	5		10
Time of self study of student (in library or at home)	3	11		33

Final preparation for exam	5	3		15
Time spent in evaluation (tests, final exam)	2	6		12
Projects, presentations, etc.	1	2		2
Total				**154**

Methodology of teaching:	Regular teaching, lecturing with presentations in groups, exercises with tasks and examples, exercises in the field, seminar tasks and works, tests, discussions.	
Report between practical and theoretical part of study:	**Theoretical part (%)**	**Practical part (%)**
	50%	**50%**
Basic literature:	[1] Prof. dr.Musli Bajraktari, *Mjetet transportuese në komunikacion-dispencë* [2] Dr.Ilir Doçi ,*Përmbledhje detyrash nga Mjetete transportit në Komunikacion* [3] Babameto L. *Transporti*, Tiranë.	

Title of subject:	**PUBLIC TRANSPORT**
Description of subject:	Importance of Public Transport (PT). Types, processes and sub-processes of PT. Requirements analysis, functional and dynamic parameters of TP. Market research, quality control and service delivery. Transportation management processes, fleet of vehicle, staff and necessary documentation. Models and levels of management. Production, costs, economic efficiency and use of resources. PT planning etc.
Targets of subject:	Introducing the students to new scientific knowledge ,professionals, information on methods and technologies , processes and management of system of PT.
Expected results of student:	*After completing this course (course) students will be able to:* *10. Develop and manage the operational processes and passenger transport processes.* *11. Perform specific types of analyses and comparisons for all types of PT (route, off-route, on request etc).* *12. In practical way to explore and define transportations requirements and necessary capability for realization.* *13. To determine the quantity, analysis achieved of the results, efficiency and effectiveness of the transport process,* *14. To apply the method of measuring quality of parameters during the transport.*

Contribution in the load of student (which should correspond with results of gain of the student)

Activity	**Hours**	**Days/Weeks**	**Total**
Lectures	2	15	30
Exercises Theoretical /Laboratory	2	10	20
Practical work	0	0	0
Contacts with teacher/consultations	1	5	5
Practice in field	1	10	10
Testing's, seminars	10	2	20

Homework	1	20	20
Time of self study of student (in library or at home)	4	10	40
Final preparation for exam	5	1	5
Time spent in evaluation (tests, questionnaire, final exam)	5	1	5
Projects, presentations, etc.	0	0	0
Total			**155**

Methodology of teaching:	The material provided in this course explored through lectures in electronic formats, discussions with students, seminar papers and field visits	
Report between practical and theoretical part of study:	**Theoretical part (%)**	**Practical part (%)**
	70%	**30%**

Basic literature:

6. H.Peci *"Transporti Urban ",*FIM-Departamenti Komunikacion, Prishtinë, 2009- dispencë
7. R.Duraku *"Detyra të zgjidhura nga Transporti Urban"* , FIM-Departamenti Komunikacion,Prishtinë, 2012-dispencë,
8. *Stefancic, G.: Tehnologija gradskog prometa I, FPZ, Zagreb,2008*
9. Snezana M.Filipovic,: *"Optimizacije u sistemu javnog gradskog putnickog prevoza",* Saobracajni Fakultet, Beograd,1995.

Title of subject:	**INTELLIGENT TRANSPORTATION SYSTEMS**
Description of subject:	Understanding and application of Intelligent Transportation Systems (ITS). Corpus of knowledge essentials for ITS. Specification of systems and consolidate customer requirements. Technology support for ITS. Collection and processing of data and information transportation. Basic applications of ITS in some particular branch of transportation. ITS services and route information before the route. Navigation system. STI support for transportation planning. ITS surveillance and command of transport capacity. Supervision and avoiding accidents. Systems for improved visibility and obstruction of the accident. System monitoring the shipments.
Targets of subject:	Learn about history and organization of ITS, gain in-depth knowledge on the most common application areas of ITS, including traffic management, traveler information, public transportation, and commercial vehicle operations. Technical and institutional issues associated with implementation of ITS applications will be discussed. Students will have opportunities to enhance their skills in researching an ITS topic by gathering information, and writing reports.
Expected results of student:	Within the core module students will have been introduced to some of the basic concepts of Intelligent Transport Systems. The objective of this module is to explore ITS in more detail. The detailed objectives are: • To develop an understanding of Intelligent Transport Systems (ITS) • To describe the concepts of ITS architecture and its evolution • Understand the capability of key technologies • Understand impact of technology on different modes and movement • Understand how to evaluate technologies, applications and services.

Contribution in the load of student (which should correspond with results of gain of the student)

Activity	**Hours**	**Days/weeks**	**Total**
Lectures	2	15	30
Exercises Theoretical /Laboratory	2	15	30

Practical work			
Contacts with teacher/consultations	2		2
Practice in field	3	3	9
Testing's, seminars	2	10	20
Homework	1	6	6
Time of self study of student (in library or at home)	3	15	45
Final preparation for exam	5	2	10
Time spent in evaluation (tests, questionnaire, final exam)	2	1	2
Projects, presentations, etc.	2	3	6
Total			**160**

Methodology of teaching:	Lecture by presentations, assignments and exercises with concrete examples, field exercises, seminar papers, tests, discussions.

Report between practical and theoretical part of study:	**Theoretical part (%)**	**Practical part (%)**
	50%	**50%**

Basic literature:	1. Bošnjak, I.: Inteligentni transportni sustavi I, Sveučilište u Zagrebu, 2006. 2. Sussman, Joseph. *Perspectives on Intelligent Transportation Systems (ITS)*. New York, NY: Springer, 2010. Mashrur A. Chowdhury, and Adel Sadek, 3. *Fundamentals of Intelligent Transportation Systems Planning,* Artech

Title of subject:	**RAILWAY TRANSPORT**
Description of subject:	Rail transport includes: Basics of the railway. general characteristics of railway, Way of iron / binaries /, railway stations, passengers, cargo and terminals, signaling and signaling security tools and providing traffic regulation, railway infrastructure, the upper elements of the railway line, railway track.
Targets of subject:	Recognition and deepening of knowledge in rail transport
Expected results of student:	Imply knowledge, skills and abilities that will win the student after successful completion of this course. To present those achieved verbs used as knows, recognizes, describes, compares, projects, designs, develops, etc. /

Contribution in the load of student (which should correspond with results of gain of the student)

Activity	**Hours**	**Days/Weeks**	**Total**
Lectures	2	15	30
Exercises Theoretical /Laboratory	2	15	30
Practical work	8	1	8
Contacts with teacher/consultations	1	15	15
Practice in field	8	1	8
Testing's, seminars	2	2	4
Homework	1	8	8
Time of self study of student (in library or at home)	2	15	30
Final preparation for exam	8	3	24

Time spent in evaluation (tests, questionnaire, final exam)	2	1	2
Projects, presentations, etc.	2	1	2
Total			**162**

Methodology of teaching:	Lecture by presentations, assignments and exercises with concrete examples, seminar papers, tests, discussions	
Report between practical and theoretical part of study:	**Theoretical part (%)**	**Practical part (%)**
	50%	**50%**
Basic literature:	1. F. Shala: Rail Transport Technology (authorized lectures) FIM, Pristina 2. Babameto. L.: Transporti, Tirane 1996. 3. Bogovic. B.: Organizimi i transportit hekurudhor, FPZ,Zagreb, 1987.	

Title of subject:	**TRANSPORTATION PROPERTIES OF GOODS IN TRAFFIC**
Description of subject:	Types of goods. General features of goods. Types and classification of goods in the manner of loading, origin, quantity, quality, value. Transportaion of metals and minerals, classification and transportation of hazardous materials, transportation of textile products and plastics; transportation of food; transportation of wood, coal, glass ceramics; transport of live animals etc. Packaging. Safety of goods in transit. Standards of classification of goods
Targets of subject:	Knowledge about transported goods in traffic and their classification, ways of preparing goods for transportation, their safety during transportation.
Expected results of student:	Student will know the type of goods being transported, their properties and their classification. Will know the ways and conditions of loading and unloading and transportation of goods. Preparing vehicles for transporting certain goods. Types of packaging. National and international classification of goods and merchandise.

Contribution in the load of student (which should correspond with results of gain of the student)				
Activity	**Hours**	**Days**	**Weeks**	**Total**
Lectures	2		15	30
Exercises Theoretical /Laboratory	2		15	30
Practical work	1		2	2
Contacts with teacher/consultations	1		10	10
Practice in field	2		1	2
Testing's, seminars	2		4	8
Homework	2	5		10
Time of self study of student (in library or at home)	3	11		33
Final preparation for exam	4	3		12

Time spent in evaluation (tests, final exam)	2	6		12
Projects, presentations, etc.	1	2		2
Total				**151**

Methodology of teaching:	Regular teaching, lecturing with presentations in groups, exercises with tasks and examples, exercises in the field, seminar tasks and works, tests, discussions.	
Report between practical and theoretical part of study:	**Theoretical part (%)**	**Practical part (%)**
	50%	**50%**
Basic literature:	[1] Dr. sc. Ilir Doçi, ***Vetitë transportuese të mallrave në komunikacion*** , dispensë, Prishtinë, 2011. [2] Lazar Filkovic, *Teret u saobracaju*, Beograd, 1988. [3] H. Džanić, *Tehnologia materijala u prometu*, Zagreb, 1989 [4] *Standard International Trade Classification* – SITC . [5] European Article Number Barcode System –EAN.	

Title of subject:	**TRAFFIC FLOW CONTROL**
Description of subject:	Definitions of basic parameters of traffic circulation. Characteristics and base diagram of circulation. Recording or numered in traffic. Signalization in traffic. Regulation of the traffic circulation with lighting signals. Adjusted saturation flow and capacity of signalized intersection. Elements of the signaling. Calculation of signaling plan. Regulation circulation of pedestrians. Regulation of circulation with assistance of traffic police and traffic regulation on special conditions.
Targets of subject:	After that the number of vehicles circulating in the world today is enormous, which number comes day by day increasing progressively and in the Kosovo, where we faced the difficulty by many large traffic flows, there is a need for more regulation efficient of traffic flow. Thus, by applying contemporary methods in the world for developing signaling plans, it is possible that in a lesser or greater way to eliminate the problems mentioned above.
Expected results of student:	*After completing this course (course) the student will be able :* 1. To make necessary recordings of traffic flows, 2. Make the determination of adjusted saturation flow by general method ant HCM method, 3. According to the results obtained above, is able to make preparation of final signalizing plans , with the modern methods which are known in the world today.
Contribution in the load of student (which should correspond with results of gain of the student)	

Activity	Hours	Days/Weeks	Total
Lectures	2	15	30
Exercises Theoretical /Laboratory	2	10	20
Practical work	0	0	0
Contacts with teacher/consultations	1	5	5
Practice in field	1	10	10
Testing's, seminars	10	1	10
Homework	2	10	20
Time of self study of student (in library or at home)	5	10	50
Final preparation for exam	5	1	5
Time spent in evaluation (tests, questionnaire, final exam)	5	1	5
Projects, presentations, etc.	0	0	0
Total			**155**

Methodology of teaching:	Materials provided in this course discussed through lectures electronically, discussions with students, seminar papers .	
Report between practical and theoretical part of study:	**Theoretical part (%)**	**Practical part (%)**
	50 %	50 %

Basic literature:

1. Perjuci Xh.etj., Leksione nga Rregullimi i Qarkullimit në Komunikacion, Prishtinë, 2012.
2. Osoba M., etj., Upravljanje Saobracajem Pomocu Svetlosnih Signala, 1999.
3. Akcelik R., Traffic Signals-Capacity and Timing Analysis Victoria, 1981.
4. Ristic B., Regulacija na Saobracajni Tok, Manastir, 1997.

Title of subject:	**SAFETY IN TRAFFIC I**
Description of subject:	Analysis of basic road safety factors and technical concepts in road safety.In this course also treated importance and function of the vehicle and road from the aspect of safety and road accidents.
Targets of subject:	Recognize students with road safety factors and technical concepts in road safety.
Expected results of student:	After completing this course (subject) students should be able to: - Know the role and tasks of the road safety factors - Know the effects of the road safety factors - Know the importance of technical road safety technique - Know stability of the vehicle during movement - Calculate and analyze braking distance - Calculate horizontal and vertical visibility - Know vehicle collision theory

Contribution in the load of student (which should correspond with results of gain of the student)

Activity	Hours	Days	Weeks	Total
Lectures	2	15		30
Exercises Theoretical /Laboratory	2	10		20
Practical work	0	0		0
Contacts with teacher/consultations	1	5		5
Practice in field	1	10		10
Testing's, seminars	10	1		10

Homework	2	15	30
Time of self study of student (in library or at home)	4	10	40
Final preparation for exam	5	1	5
Time spent in evaluation (tests, questionnaire, final exam)	5	1	5
Projects, presentations, etc.	0	0	0
Total			**155**

Methodology of teaching:	The material provided in this course explored through lectures in electronic formats, discussions with students, seminar papers and field visits	
Report between practical and theoretical part of study:	**Theoretical part (%)**	**Practical part (%)**
	70%	**30%**
Basic literature:	4. *Geca, A.: Siguria në komunikacion I-Faktorët e siguriesë në komunikacion, Prishtinë 2009.* 5. *Geca, A.: Siguria në komunikacion II-Teknika e siguriesë në komunikacion, Prishtinë 2009.* 6. *Cerovac,V.: Tehnika i sigurniost prometa, FPZ, Zagreb, 2001* 7. *Rotim.F.: Elementi sigurnosti prometa, FPZ, Zagreb*	

Title of subject:	**MAINTENANCE OF ROAD AND RAILWAY VEHICLES**
Description of subject:	To know with function and importance of maintenance of road and railway vehicles. To recognize the influence of road, transportation, and climatic conditions in life cycle of road and railway vehicles. Recognize maintenance technology, organization and tools and equipment required for maintenance. Management of spare parts and maintenance materials. Concepts and models of maintenance. Maintenance strategies. Types of fault. Diagnostics, models, and methods of diagnosis.
Targets of subject:	Training of students in the fields of maintenance of road and railway vehicles.
Expected results of student:	Student will describe the importance and function of maintenance of road and railway vehicles. After complete of this course, student will be able to understand: 1. Based on the conditions for use of road and railways vehicles will defines plans and programs with the appropriateness of preventive maintenance, the volume of work necessary for corrective maintenance and supplies necessary spare part. 2. Through diagnosis determines whether the vehicle is in working condition or should be repaired. 3. To choose the equipment and tools required for maintenance of vehicles.

Contribution in the load of student (which should correspond with results of gain of the student)				
Activity	**Hours**	**Days**	**Weeks**	**Total**
Lectures	2		15	30
Exercises Theoretical /Laboratory	2		15	30
visiting service	4		1	4
Contacts with teacher/consultations	1	8	8	8
Practice in field (laboratory)	0	0		0
Testing's, seminars	2	3		6
Homework	2	5		10
Time of self study of student (in library or at home)	3	15		45
Final preparation for exam	4	4		16
Time spent in evaluation (tests, questionnaire, final exam)	2	3		6
Projects, presentations, etc.	0		0	0
Total				**155**

Methodology of teaching:	Regular teaching, lecturing with presentations in groups, exercises with tasks and examples, seminar tasks and works, tests, homework, laboratory and visiting service.	
Report between practical and theoretical part of study:	**Theoretical part (%)**	**Practical part (%)**
	85%	**15%**
Basic literature:	1. Dr. sc. Naser Lajqi, "Mirëmbajtja e mjeteve të komunikacionit", 2. Zoran Kalenic: Odrzavanje cestovnih vozila, Zagreb 2008 *3.* Palmer,D. Maintenance Planning and scheduling Handbook, second edition, McGraw-Hill, New York, 2007.	

Title of subject:	**INTEGRATED AND INTERMODAL SYSTEMS**
Description of subject:	Basic meanings of modern transport technologies. Chain of transportation. Technical and technological characteristics of modern transportation of road, rail, maritime and air. Technologies such as: HYCKE PACK, "motorway mobile" (Ro-La), bimodale, RO-RO, LO-LO FO-FO. Terminals. Transportation centers.
Targets of subject:	Training students in the field of application of new technologies in integrated and intermodal transportation systems.
Expected results of student:	1. Based on the technical and technological characteristics makes choosing the most appropriate modes of transport. After completing this course (course) the student will be able to understand the advantages and disadvantages of transport technologies: RO-RO, LO-LO FO-FO, LO-RO, Hycke pack, "mobile superhighway" , etc, and to choose the most appropriate modes of transportation.

Contribution in the load of student (which should correspond with results of gain of the student)				
Activity	**Hours**	**Days**	**Weeks**	**Total**
Lectures	2		15	30
Exercises Theoretical /Laboratory	2		15	30
visiting transportation companies	5		1	4
Contacts with teacher/consultations	1	8	8	8

Practice in field (laboratory)	0	0		0
Testing's, seminars	2	3		6
Homework	2	5		10
Time of self study of student (in library or at home)	3	14		42
Final preparation for exam	4	4		16
Time spent in evaluation (tests, questionnaire, final exam)	2	3		6
Projects, presentations, etc.	0		0	0
Total				**156**

Methodology of teaching:	Regular teaching, lecturing with presentations in groups, exercises with tasks and examples, seminar tasks and works, tests, homework, and visiting transportation companies.	
Report between practical and theoretical part of study:	**Theoretical part (%)**	**Practical part (%)**
	95%	**95%**
Basic literature:	1. Dr. Cvetanovski Ile: Sovremene tRansportni tehnologi, Bitol 2007 2. Ratko Zelenika. Multimodalni prometni sustave, Rijeka 2006 .	

Title of subject:	**TRAFIC AND ENVIRONMENT**
Description of subject:	Knowledge of the environment and pollution, pollution from vehicles in traffic, pollution from vehicles in gases pollution, the impact of air pollution, pollution from vehicles compared to petrol and diesel, and pollution legislation, comparing pollution in road traffic, aviation and railways .
Targets of subject:	Training students in the field of traffic and environment
Expected results of student:	*Students will acquire:* Basic knowledge about pollution from traffic, overall analysis of pollution in the environment, the possibility of reducing the polluting internal combustion engines otto and diesel , legislation and pollution, pollution in the aviation and rail.

Contribution in the load of student (which should correspond with results of gain of the student)				
Activity	**Hours**	**Days**	**Weeks**	**Total**
Lectures	2	15	15	30
Exercises Theoretical /Laboratory	0	0	0	0
Practical work	1	2	2	2
Contacts with teacher/consultations	1	8	8	8
Practice in field	1	8	8	8
Testing's, seminars	3	3	3	9
Homework	3	15	15	45

Time of self study of student (in library or at home)	3	10	10	30
Final preparation for exam	5	2	2	10
Time spent in evaluation (tests, questionnaire, final exam)	2	4	4	8
Projects, presentations, etc.	1	8	8	8
Total				**158**

Methodology of teaching:	Lecture by presentations, examples, exercises on the ground, seminar papers, tests and discussions	
Report between practical and theoretical part of study:	**Theoretical part (%)**	**Practical part (%)**
	90.00%	**10.00%**
Basic literature:	[1]. Muriqi,Ali,(2012): Komunikacioni dhe mjedisi,(ligjerata te autorizuara), FIM,Prishtinë [2] DEMIDOV,S;BONNET,J.(2009),TRAFFIC RELATED AIR POLLUTION NAND INTERNAL COMBUSTION ENGINES,BN, NY.	

Title of subject:	**AIR TRAFFIC**
Description of subject:	The historical development of flight. Classification of aircraft. Criteria for the regulation of aviation. Aircraft Technology. Technical equipment and aircraft equipment. The vision for the present and future aircraft technologies (security, economic efficiency, ecology, comfort). Air transport of goods and people. Air traffic control. Airports. The basics of navigation. Airline network segments.
Targets of subject:	Training students in the field of air traffic. The basics of aerodynamics. Knowledge of aircraft and types of aircraft. Air transportation of goods and people. Knowledge of air traffic control. Basics of navigation.
Expected results of student:	Students will acquire: Knowledge of aircraft, their functioning and accessories, recognition of air transport procedures and regulations, knowledge of airports, air traffic control.

Contribution in the load of student (which should correspond with results of gain of the student)

Activity	**Hours**	**Days**	**Weeks**	**Total**
Lectures	2		15	30
Exercises Theoretical /Laboratory	2		15	30
Practical work	2		2	4
Contacts with teacher/consultations	1		5	5

Practice in field	1		6	6
Testing's, seminars	6		1	6
Homework	2	6		12
Time of self study of student (in library or at home)	3	8		24
Final preparation for exam	5	1		5
Time spent in evaluation (tests, final exam)	2	2		4
Projects, presentations, etc.	2	1		2
Total				**130**

Methodology of teaching:	Regular teaching, lecturing with presentations in groups, exercises with tasks and examples, exercises in the field, seminar tasks and works, tests, discussions.	
Report between practical and theoretical part of study:	**Theoretical part (%)**	**Practical part (%)**
	50%	**50%**

Basic literature:

2. Dr.sc. Ilir Doçi, *Komunikacioni ajror*, Prishtina, 2013.
3. Ian Moir and Allan Seabridge, *Aircraft Systems- Third Edition*, © 2008 John Wiley & Sons, Ltd. ISBN: 978-0-470-05996-8
4. *The Commercial aircraft and Airliners*, Airlife Publishing Ltd, 1996.
5. Peter Belobaba, Amedeo Odoni, Cynthia Barnhart, *The global airline industry*, John Wiley & Sons, Ltd, 2009.
6. Norman Ashford, Paul H. Wright, *Airport Engineering*, John Wiley & Sons, Inc., 1992
7. IATA Documentation, *http://www.iata.org*.