



UNIVERSITY OF NOVI SAD

FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Traffic and Transport Engineering



STUDY PROGRAMME ACCREDITATION MATERIAL:

TRAFFIC AND TRANSPORT ENGINEERING

MASTER ACADEMIC STUDIES

Novi Sad

2012.

Prevod sa srpskog jezika:

Jelisaveta Šafranj

Ivana Mirović

Marina Katić

Vesna Bodganović

Dragana Gak

Ličen Branislava



Content

<u>00. Introduction</u>	3
<u>01. Programme Structure</u>	4
<u>02. Programme Objectives</u>	5
<u>03. Programme Goals</u>	6
<u>04. Graduates` Competencies</u>	7
<u>05. Curriculum</u>	8
<u>Table 5.2 Course specification</u>	8
<u>Modelling of Traffic and Transport</u>	9
<u>Project Evaluation</u>	10
<u>Quality System in Road Transport</u>	11
.....	12
<u>Transportation Control</u>	13
<u>Transportation Demand Management</u>	14
<u>Traffic Design</u>	15
<u>Technology of Railway Stations</u>	16
<u>Rail Transport Safety</u>	17
<u>Prevention of Accidents</u>	18
<u>Ship design and exploitation of ships</u>	19
<u>Traffic Safety Measures</u>	20
<u>Forensic Engineering in Traffic</u>	21
<u>Navigation and vessel traffic control</u>	22
<u>Theory of ship's motion and maneuverability</u>	23
.....	24
<u>Traffic Forecasts</u>	24
<u>Shaping Logistics Processes in Supply Chains</u>	25
.....	26
<u>E-Logistics</u>	26
<u>Reverse and Green logistics</u>	27
<u>Electrical Substation and Electric Traction</u>	28
<u>PROJECT MANAGEMENT</u>	29
<u>Professional Internship</u>	30
<u>Studijsko istraživački rad na teorijskim osnovama - master rad</u>	31
<u>Elaboration and Defense of Master Thesis</u>	32
.....	33
<u>Planning of Public transport</u>	33



Content

<u>Waterways and Ports</u>	34
<u>Railway Lines and Stations</u>	35
<u>Behaviour processes in traffic engineering</u>	36
<u>Road infrastructure and road safety in urban areas</u>	37
<u>Logistics centers</u>	38
<u>06. Programme Quality, Contemporaneity and International Compliance</u>	39
<u>07. Student Enrollment</u>	40
<u>08. Student Evaluation and Progress</u>	41
<u>09. Teaching Staff</u>	42
<u>Atanasković R. Predrag</u>	42
<u>9.1. Science, arts and professional qualifications</u>	42
<u>Atanasković R. Predrag</u>	43
<u>Bačkalić M. Todor</u>	45
<u>Basarić B. Valentina</u>	46
<u>Bogdanović Z. Vuk</u>	47
<u>Bukurov Ž. Maša</u>	48
<u>Gladović V. Pavle</u>	50
<u>Grabić U. Stevan</u>	52
<u>Gušavac J. Strahil</u>	54
<u>Jovanović M. Dragan</u>	55
<u>Katić A. Vladimir</u>	57
<u>Kostić I. Svetozar</u>	60
<u>Miličić S. Milica</u>	61
<u>Nikoličić S. Svetlana</u>	63
<u>Papić M. Zoran</u>	65
<u>Renčelj D. Marko</u>	66
<u>Simeunović M. Milan</u>	67
<u>Simić S. Dragan</u>	69
<u>Stojanović M. Đurđica</u>	71
<u>Stojić S. Gordana</u>	73
<u>Tanackov J. Ilija</u>	75
<u>Tepić Đ. Jovan</u>	77
<u>10. Organizational and Material Resources</u>	79



Content

<u>11. Quality Control</u>	_____	80
<u>12. Distance Education</u>	_____	81



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Traffic and Transport Engineering

Programme name	Traffic and Transport Engineering
Independent higher education institution where the programme is being executed	University of Novi Sad
Higher education institution where the programme is being executed	Faculty of Technical Sciences
Educational-scientific/educational-art field	Technical-Technological Science
Scientific, professional or art field	Traffic Engineering
Type of studies	Master Academic Studies
Study scope, expressed in ECTS	60
Academic degree, abbreviation	Master in Traffic Engineering, M.Traff.Eng.
Study length	1
Programme implementation starting year	2009
Future course implementation starting year (for new programme)	
Number of students attending this programme	33
Planned number of students to be enrolled in this programme	128
Programme approval date (state the approval issuer)	14.11.2012 - Science Education Council 29.11.2012 - University of Novi Sad Senate
Programme language	Serbian, English
Programme accreditation year	2008
Web address containing programme information	http://www.ftn.uns.ac.rs



UNIVERSITY OF NOVI SAD

FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Traffic and Transport Engineering

Standard 00. Introduction

The study program of graduate academic studies in Traffic and Transport is a continuation of the study programme of undergraduate studies of Traffic and Transport at the Faculty of Technical Sciences at the University of Novi Sad.

The complexity of problems in contemporary society imposes the need for education personnel in the field of traffic and transport for the purpose of its accelerated development at a global level. Traffic and transport engineers are obliged to respond to numerous requests imposed on them from the field of traffic due to the fact that traffic and transport issues in the last decades become one of the fundamental problems of modern society development. For that reason traffic and transport study programme in educational sense should be viewed as a study programme which was developed in answer to the problems encountered in everyday practice.

The programme should provide the students with the opportunity to substantially understand the fundamental principles of different areas of traffic and transport, acquire the necessary theoretical and professionally – applicable knowledge for the purpose of getting qualifications for solving problems imposed by contemporary society, market and global need for developing sustainable society. Students are allowed to get necessary skills applicable in practice within graduate studies, which may simultaneously be combined with knowledge from other engineering fields for the purpose of solving complex problems that exist in contemporary society. The programme allows students to gain knowledge and experience in some independent professional and research works as the basis of further development.



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Traffic and Transport Engineering

Standard 01. Programme Structure

The name of the study program is Traffic and Transport. The academic title acquired is the Master's degree in Traffic and Transport Engineering. The outcome of the learning process is the knowledge application in the field of traffic and transport and ability to solve the problems independently. In addition, students are trained to approach problems from the theoretical and scientific aspects, and to expand their knowledge at specialization studies or higher level of education.

Students are allowed to enroll in graduate academic studies if they are awarded with 240 ECTS credits at their undergraduate academic studies, including a minimum grade point average of 8.00. The graduate academic studies for traffic and transport, lasting one year have one study group-Traffic and Transport. The programme is offered if there are enough students enrolled in this programme.

If the number of students is insufficient the courses are not organized or the Faculty will make a special decision regarding the way in which the teaching process will be organized (mentor work with students). Students are required to choose courses from elective groups but, based on their preferences and desires, they can also choose, upon approval of the Head of the study programme, any of the courses offered by the Faculty of Technical Sciences, other faculties of the University of Novi Sad and other universities in the country and abroad. Standard requirements for attending elective courses must be met in this case.

The teaching process takes the form of lecture and practice classes. Throughout the learning process special attention is given to students' individual research work and their participation in the teaching process. During the lectures the topics are presented using suitable didactic materials. In addition, students are informed about research activities and trends in the field of traffic and transport. The practice classes which accompany the lectures are devoted to solving practical problems and presenting additional examples to illustrate the matter further. This is also the opportunity to provide additional explanations for the material covered during the lectures. The practice classes can be auditory, laboratory, computer or calculation classes. They can partially be held in factories or other establishments dealing with problems of traffic and transport.

The student assignments at these classes may include: writing a seminar paper or doing homework, project, semester or graphic assignments, where each student's activity is monitored and evaluated according to the regulations adopted by the Faculty, Traffic Department and study programme. The student's score is represented by the uniform methodology and reflects the weight load on students. Each course is worth a certain number of ECTS credits and the studies are considered completed when the student fulfils all obligations required by the programme of study and thereby attains at least 60 ECTS.



UNIVERSITY OF NOVI SAD

FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Traffic and Transport Engineering

Standard 02. Programme Objectives

The purpose of the study program is the education of students for the profession of Master Engineer in Traffic and Transport in accordance with the needs of society.

The study programme Traffic and Transport is designed to ensure the acquisition of competencies based on contemporary society needs, in which traffic and transport problems are one of the basic barriers to further development. The Faculty of Technical Sciences has defined the primary aims and goals for higher education of competent personnel in the field of postal traffic and telecommunications. The purpose of the Postal Traffic and Telecommunications study programme is in complete coherence with the goals and aims of the graduate programmes at the Faculty of Technical Sciences.

Realization of the study programme designed in this way ensures the education of engineers with master degree in traffic engineering who have competences equal to those acquired in Europe and worldwide.



UNIVERSITY OF NOVI SAD

FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Traffic and Transport Engineering

Standard 03. Programme Goals

The aim of the study programme is to achieve competence and academic skills in the field of Traffic and Transport. This, among others includes the development of creative skills regarding research problems and critical thinking ability, as well as problem solving, developing skills in team work as well as the mastery of specific practical skills needed to perform profession.

The aim of the studies is to educate professionals who possess the necessary knowledge which from professional and scientific aspect may be applied in the field of planning and design of traffic and transport systems, logistics of the traffic and transport enterprise, technologies of traffic and transport systems, organization and control of traffic and transport systems and safety and control of traffic.

One of the specific objectives, consistent with the goals of education of experts at the Faculty of Technical Sciences is to develop the awareness with students of the need for lifelong learning, for the purpose of sustainable development and environment protection. Students are trained to understand the role and place of master engineer in traffic and transport in the team work as well as to develop skills for writing scientific papers and announcements and transfer their own results to the general public.



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Traffic and Transport Engineering

Standard 04. Graduates` Competencies

Students with Master`s degree in Traffic and Transport have the competence to solve real life problems in practice as well as to continue education if they decide to do so. Their competences include, primarily, critical thinking, the ability to analyze a problem, synthesize a solution, predict the behavior of the chosen solution with the clear idea of the advantages and disadvantages of the chosen solution.

The qualifications which mark the completion of master academic studies are awarded to the students who:

-have demonstrated the knowledge and understanding in the field of traffic and transport which complements the knowledge acquired during undergraduate academic studies and forms a basis for developing critical thinking and application of knowledge;

-are capable of applying their knowledge in solving problems in a new and unfamiliar environment in the wider or multidisciplinary areas within the educational and scientific area of study;

-are capable of integrating knowledge in order to solve complex problems and to form judgment on the basis of available information which include reflection on social and ethical responsibilities associated with applying their knowledge and judgments;

-are able to transfer knowledge conclusion methods in a clear and unambiguous way to both specialist and non-specialist audiences;

-have ability to continue studies in a self-selective way.

With regard to the specific competences of the students who have completed the study programme of master academic studies they acquire a thorough knowledge and understanding of all the disciplines within the module as well as the ability to solve practical problems using scientific methods and procedures. Students who have completed the master programme of Traffic and Transport are capable of adequately writing about and presenting the results of their work. The study programme emphasizes the intensive use of information and communication technologies.

The students who have completed this level of studies have the competence to follow and apply the new developments in their professional field as well as to cooperate with local community and international environment.

The students are capable of designing, organizing, and managing traffic and transport systems. Throughout their education the students acquire the ability to independently perform experiments, statistical analysis of data as well as to formulate results and draw adequate conclusions.

Students who have graduated from the Traffic and Transport study programme acquire the knowledge how to economically use the natural resources of the Republic of Serbia in accordance with the principles of sustainable development.

Special attention is paid to developing skills for teamwork and development of professional ethics.

**Study Programme Accreditation**

MASTER ACADEMIC STUDIES

Traffic and Transport Engineering

Standard 05. Curriculum

The curriculum of graduate academic studies in Traffic and Transport was designed to meet all the set goals. In the structure of the study programme it has been ensured that elective courses make at least 30% of the required ECTS credits.

Academic master studies deal with concrete problem in the area of traffic and transport. In elective courses students can follow their own preferences which have been defined at the undergraduate studies level.

All courses are one-semester courses and are worth the appropriate number of ECTS points where one point equals approximately 30 hours of student activities.

The curriculum is a description of each subject containing the name, type of course, year and semester of study, the number of ECTS credits, the name of the teacher, the course aims and the expected outcomes, competencies, prerequisites for attending the classes, course content, recommended literature, teaching methods, ways of knowledge assessment, and other data.

The study program complies with European standards in terms of conditions for enrolment, duration of study, completion, and modes of study.

An integral part of the curriculum of Traffic and Transport is professional practice and practical work for 45 hours, which is performed in the relevant scientific and research institutions, in organizations which perform innovation activities in organizations for the provision of infrastructural support, innovation activities in enterprises and public institutions.

The students complete their studies by producing a Master thesis, which consists of theoretical and methodological preparation necessary for the in-depth understanding of the field which they graduate in as well as the writing of the thesis itself.

Before the defense of their Master thesis, the students have to take an examination on the theoretical and methodological basis, which, as a rule is taken before a committee for defense. The final grade is based on the assessment of the theoretical – methodological preparation and the evaluation of the submitted work and its defense. The thesis is defended before a committee consisting of at least three teachers, of whom at least one has to be from other departments or faculties.

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Table 5.2 Course specification

Course:		<h2 style="margin: 0;">Modelling of Traffic and Transport</h2>				
Course id:	S0M4					
Number of ECTS:	5					
Teachers:	Atanasković R. Predrag, Miličić S. Milica, Stojić S. Gordan, Tanackov J. Ilija					
Course status:	Mandatory					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
3	2	1	0	0		
Precondition courses						
1. Educational goal:						
The subject purpose is to qualify students to be able to create support systems in defining in different traffic processes with applications of mathematical, statistical, graphical and account datasheet based on method and technical changes.						
2. Educational outcomes (acquired knowledge):						
By accomplishing subject matters, the students will be able to manage the right choice method skills and decisive technique, creating models, explanations and result comparison, project evaluation and estimation of traffic events.						
3. Course content/structure:						
General about type and modes. Identified traffic-transport changeable processes. Method and type of decision. Specific statistic of traffic processes. Establish deterministic, heuristic ? stochastic models in traffic and transport. Application of simulation type of traffic processes for continuous period. Type of element risk in traffic. Method of multi criteria decision analysis. Estimation type. Process type in traffic and application of artificial intelligence in transport.						
4. Teaching methods:						
Teaching, auditorium and calculation praxis, consultations, essay works. Application of appropriate software package.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance		Yes	5.00	Written part of the exam - tasks and theory		40.00
Lecture attendance		Yes	5.00	Oral part of the exam		30.00
Term paper		Yes	20.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	Milutin Čupić, Milija Suknović	Odlučivanje		Fakultet organizacionih nauka Univerziteta u Beogradu	2008	
2,	Svetozar Vukadinović, Jovan Popović	Matematička statistika		Univerzitet u Beogradu, Saobraćajni fakultet	2008	
3,	Svetozar Vukadinović, Jovan Popović	Zbirka rešenih zadataka iz matematičke statistike		Univerzitet u Beogradu, Saobraćajni fakultet	2008	
4,	Svetozar Vukadinović	Masovno opsluživanje		Naučna knjiga, Beograd	1988	
5,	Mirko Čičak	Modeliranje u železničkom saobraćaju		Univerzitet u Beogradu, Saobraćajni fakultet	2003	
6,	John Tennent, Graham Friend	Guide to Buisness Modelling		The Economist in Association with Profile Books Ltd., London, Great Britain	2005	

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Table 5.2 Course specification

Course:		Project Evaluation				
Course id:	S01592					
Number of ECTS:	5					
Teachers:	Bogdanović Z. Vuk, Simeunović M. Milan					
Course status:	Mandatory					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
3	3	0	0	0		
Precondition courses		None				
1. Educational goal:						
Acquisition of new and previously acquired knowledge of the application procedures and evaluation of projects in the field of traffic engineering. Training students to implement the functional, investment, economic and environmental evaluation procedures in the selection of optimal variations of traffic infrastructure.						
2. Educational outcomes (acquired knowledge):						
Training students to use modern tools of engineering analysis and implementation in the selection of optimal solutions. Apart from evaluation of functional characteristics, students are trained to analyze the needs and demands of the community concerned, i.e. its bodies or institutions, and the impact of the designed facility construction on the environment, during the procedure of optimal solution selection. Acquired knowledge is applied in cases of space planning, planning and road design, investment planning and utilization of traffic infrastructure.						
3. Course content/structure:						
The concept, subject and main tasks of functional evaluation. Functional evaluation of traffic conditions on roads, intersections and road facilities. Ecological evaluation and assessment of environmental impact. Economic evaluation. Investment evaluation. Multicriteria evaluation. Application of modern methods of the evaluation.						
4. Teaching methods:						
Lectures, auditory and calculation exercises. This course provides the preparation of the seminar paper. By passing tests, students are released of taking practical-calculation part of the exam.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance		Yes	5.00	Theoretical part of the exam	Yes	35.00
Lecture attendance		Yes	5.00			
Practical part of the exam - tasks		Yes	35.00			
Term paper		Yes	20.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	Ljubiša Kuzović	Vrednovanje u upravljanju razvojem i eksploatacijom putne mreže		Saobraćajni fakultet, Beograd	1994	
2,	Transportation Research Board	Highway Capacity Manual 2000		National Research Council, Washington, D. C.	2000	
3,	Anandarup Ray	Cost-Benefit Analysis "Issues and Methodologies"		The Johns Hopkins university press Baltimore	1984	
4,	Highway research board "Special Report 87"	Highway capacity manual 1965		Industrial Research NAS-NRC Washington, D. C.	1965	
5,	Hans A. Adler	Economic Appraisal of transport projects "A manual with case studies"		The Johns Hopkins university press Baltimore	1987	
6,	Ljubiša Kuzović	Utvrđivanje potreba i opravdanosti izdvajanja tranzitnog saobraćaja sa gradskih arterija izradnjom obilaznica		Saobraćajni fakultet, Beograd	1997	

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Table 5.2 Course specification

Course:		<h2 style="margin: 0;">Quality System in Road Transport</h2>				
Course id:	S0I591					
Number of ECTS:	5					
Teachers:	Gladović V. Pavle, Simeunović M. Milan					
Course status:	Mandatory					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
2	2	0	0	0		
Precondition courses		None				
1. Educational goal:						
Acquiring knowledge and mastering skills in the field of quality systems application in transport companies, with the aim of increasing the efficiency and effectiveness of operations.						
2. Educational outcomes (acquired knowledge):						
Implementation, quality improvement and investigation of transport related services in the companies with an efficient and effective management of these systems.						
3. Course content/structure:						
Defining the concept of quality of transport services. The concept of quality. The basic principles of quality management. Measuring analysis and improvement of the quality system. The new requirements of quality systems in transport. ISO-standards and core principles. Models for calculating the quality of transport services in transportation companies. The new strategy of standardization in transport of goods and passengers.						
4. Teaching methods:						
Lectures and exercises, partial examination and examination.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes	30.00
Lecture attendance		Yes	5.00		Oral part of the exam	Yes
Term paper		Yes	20.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	R.Perišić	Sistem kvaliteta usluga, logistika i informatika		Institut tehničkih nauka SANU	2002	
2,	ISO 9000/2000	Kvalitet-sistem kvaliteta		Istraživački i tehnološki centar, Novi Sad	1999	
3,	Milomir Veselinović	Sistem kvaliteta u drumskom transportu		Fakultet tehničkih nauka, Novi Sad	2008	

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Table 5.2 Course specification

Course:						
Course id:	S0MJ1					
Number of ECTS:	5					
Teacher:	Gladović V. Pavle					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
3	2	0	0	0		
Precondition courses		None				
1. Educational goal:						
Acquirement knowledge and mastery of skills in application of information technology area in traffic and transportation, with aim of increasing the efficiency and effectiveness of operations.						
2. Educational outcomes (acquired knowledge):						
Acquirement knowledge of modern information technology in traffic and transportation with aim of efficient and effective management of the traffic and transportation.						
3. Course content/structure:						
Elements and structure of road transport system, concept and types of information systems, modern information technology in road transport, defining structure of information and control system, modern methods of control and management of operation of transport vehicles, mode and means of communication in the system, methods and design of information and control system.						
4. Teaching methods:						
Lectures, auditory exercises, consultations						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes	40.00
Lecture attendance		Yes	5.00	Oral part of the exam	Yes	30.00
Term paper		Yes	20.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	Pavle Gladović, Milan Siemunović	Sistemi javnog autotransporta robe		Fakultet tehničkih nauka, Novi Sad	2004	
2,	Pavle Gladović, Vladimir Popović	Savremene informacione tehnologije u drumskom transportu		fakultet tehničkih nauka, Novi Sad	2010	
3,	H. Hanić	marketinški informacioni sistemi		Ekonomski fakultet Beograd	1996	
4,	Pavle Gladović	Tehnologija drumskog saobraćaja		Fakultet tehničkih nauka, Novi Sad	2006	

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Table 5.2 Course specification

Course:		Transportation Control				
Course id:	S0MJ2					
Number of ECTS:	5					
Teacher:	Miličić S. Milica					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
3	2	0	0	0		
Precondition courses		None				
1. Educational goal:						
Introduce students to the concepts, dimensions and specific transport management and development trend of traffic-handling systems, depending on the changes in the environment.						
2. Educational outcomes (acquired knowledge):						
After completing this course, students should be able to define the concept, characteristics and specific roles of transport and consumption as well as the services provided; defines linking businesses with the environment and the appearance on the market of transport services; describe and argue the elements of modern enterprise organization and management; propose the use of modern enterprise organization model in action depending on the location and environment in which the company is.						
3. Course content/structure:						
<ul style="list-style-type: none"> •The role of transport in production and consumption; •Transport policy and road transport system; •Market research and decision-making; •Research elements of the company performance in the market; •Research the company and connecting enterprises with the environment; •Organization elements of the company; •The organization of modern enterprise; •Shaping the organizational structure; •Organizational models. 						
4. Teaching methods:						
Auditory lectures and exercises, exam: written and oral, the condition for completing the exam subject. Attendance at lectures to 5.0 points; presence in the exercise to 5.0 points; Final exam: written and oral part of 90.0 points.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes	40.00
Lecture attendance		Yes	5.00		Oral part of the exam	Yes
Term paper		Yes	20.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	Dr Vladan Božović	Ekonomija saobraćaja		Ekonomski fakultet, Beograd	2009	
2,	Dr Vujadin B. Vešović, dr Nebojša J. Bojović	Organizacija saobraćajnih preduzeća		Saobraćani fakultet, Beograd	2002	
3,	Dipl. oec Ivan Matić	Organizacija preduzeća		Ekonomski fakultet, Split	2005	
4,	Joseph S. Matinich	Production ad operations management an appllied modern approach		University of Missouri-St Louis	2011	
5,	Jonataan Berk, Peter DeMarzo, Jarrad Harford	Fundamentals of Coporate Finance		International Financial Reporting Standards Edition	2010	

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Table 5.2 Course specification

Course:		<h2 style="margin: 0;">Transportation Demand Management</h2>				
Course id:	SOP2					
Number of ECTS:	5					
Teachers:	Basarić B. Valentina, Bogdanović Z. Vuk, Simeunović M. Milan					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
3	2	0	0	0		
Precondition courses						
1. Educational goal:						
<p>Acquiring knowledge about positive and negative consequences of implementing transport policy measures, land use measures and technological innovations, their influence on accessibility and quality of life in urban area. Acquiring knowledge in the field of creating sustainable urban transportation policy. Reducing car dependencies and promotion environmentally friendly modes of transport (public transport, biking, walking) are placed as a key objectives of new transportation planning methodology.</p>						
2. Educational outcomes (acquired knowledge):						
<p>Acquiring the ability to recognize the interdependence between traffic demand and supply, and the necessity for creating an integrated package of instruments which reinforce one another in meeting the objectives and in overcoming barriers of creating sustainable urban transport policy. Acquiring the knowledge about the application of new technologies.</p>						
3. Course content/structure:						
<p>Positive and negative effects of traffic. Air pollution and noise as a consequences of urban traffic. Sustainable transport system and sustainable mobility. Documents on the development of the European transport system. Identification and classification of transportation demand management tools - case studies. Land use measures. Infrastructure measures and management. Attitudinal and behavioural measures. Pricing. Case studies and appraisal.</p>						
4. Teaching methods:						
<p>Lectures, practical laboratory and computational exercises. This course enables students to perform independent assignment- seminar paper and examination through partial examinations.</p>						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance		Yes	5.00	Theoretical part of the exam	Yes	20.00
Lecture attendance		Yes	5.00	Oral part of the exam	Yes	20.00
Term paper		Yes	20.00	Practical part of the exam - tasks	Yes	30.00
Literature						
Ord.	Author	Title		Publisher	Year	
1,	Vukan Vučić	Urban transit operations, planning, and economics		John Wiley & Sons, Inc. Hoboken, New Jersey	2005	
2,	J.de Dios Ortuzar, L.G. Willumsen	Modelling Transport, 3rd Edition		Wiley	2011	
3,	D. Banister	Transport Planning		Spon press, London and New York	2002	
4,	M.Wolfran, S.Buhrmann, A.Martino, E.Brigat	Sustainable Urban Transport Plans (SUTP) and urban environment: Policies, effects and simulations		Rupprecht Consult - Forschung & Beratung GmbH	2005	

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Table 5.2 Course specification

Course:		Traffic Design				
Course id:	S051					
Number of ECTS:	5					
Teachers:	Bogdanović Z. Vuk, Simeunović M. Milan					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
2	3	0	0	0		
Precondition courses		None				
1. Educational goal:						
<p>Acquiring knowledge in designing traffic signals and equipment in the regulation of traffic on the road and street network. Students acquire knowledge of the elements of road and street networks, tools and methods used in the design of traffic signals and equipment on the road and street network. Also, students can transfer knowledge about modern procedures and systems for the regulation and management of traffic on road and street network.</p>						
2. Educational outcomes (acquired knowledge):						
<p>Students are trained to respect the norms, standards and common procedures, applying lessons learned from this course, theory of traffic flow, traffic regulation, traffic planning and other areas to solve specific problems of safety, planning and regulation of traffic on road and street networks. In addition, students are trained for solving specific problems using modern solutions based on contemporary technical and technological advancements in computing and electronics.</p>						
3. Course content/structure:						
<p>Methods and procedures of technical regulations and traffic management. Project elements of road and street network. Designing horizontal and vertical road signs. Projecting signs at the entrances of intersections. Designing signs in the area of road works and temporary traffic regime changes. Design of light signals at isolated intersections. Design of light signals at coupled intersections. Designing a coordinated operation of light signals. Network coordination and management of traffic on road and street network.</p>						
4. Teaching methods:						
<p>Lectures, auditory and computational exercises. During this course, students are required to develop the project in which they solve practical problems. Practical computing-part of examination may be substituted by passing two partial examinations.</p>						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam		
Exercise attendance		Yes	3.00	Practical part of the exam - tasks	Mandatory	Points
Laboratory exercise attendance		Yes	3.00			
Lecture attendance		Yes	4.00			
Project defence		Yes	20.00			
Theoretical part of the exam		Yes	35.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	Tihomir Đorđević	Regulisanje saobraćajnih tokova svetlosnom signalizacijom		Institut za puteve Beograd	1997	
2,	Mihajlo Maletin	Planiranje i projektovanje saobraćajnica u gradovima		Orion	2005	
3,	Branimir Stanić, Predrag S. Zdravković i dr.	Elementi saobraćajnog projektovanja "Horizontalna signalizacija" II dopunjeno izdanje		Saobraćajni fakultet, Beograd	1997	
4,	Dragan Mitić, Smiljan Vukanović	Kružne raskrsnice		Saobraćajni fakultet, Beograd	1994	

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Table 5.2 Course specification

Course:		<h2 style="margin: 0;">Technology of Railway Stations</h2>				
Course id:	S0152Ž					
Number of ECTS:	5					
Teachers:	Stojić S. Gordana, Tepić Đ. Jovan					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
3	2	0	0	0		
Precondition courses		None				
1. Educational goal:						
Acquiring knowledge about the basic technologies operation of railway stations and the conditions of their design, goods work on railway stations and the development tendencies of the transport system in Europe.						
2. Educational outcomes (acquired knowledge):						
Independent technology operation and capacity design of railway station and selection of optimal technologies to enhance the quality of service delivery on the railway.						
3. Course content/structure:						
The organization of station, technology and operation of section and marshalling stations, switching operation. Organization of car flows. Organization of railway junctions. Organization of work on the industrial gauges. Organization of work in ports. Organization of work in the combined transport terminals. Organization of work in passenger stations. Technical standards in rail transport. Estimate of station capacity. Workload and Forecast of railway stations. Technology of freight traffic. Forwarding in the transport of goods by rail. Train routing problem. Information systems in the initial subsystem terminal operations.						
4. Teaching methods:						
Auditory lectures and exercises. Computational exercises. Designing technology of station (seminar paper). Computational exercises. Design of the railway transport process (seminar paper).						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes	40.00
Lecture attendance		Yes	5.00		Oral part of the exam	Yes
Term paper		Yes	20.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	Mirko Čičak, Slavko Vesković	Organizacija železničkog saobraćaja II		Univerzitet u Beogradu, Saobraćajni fakultet	2005	
2,	Mirko Čičak, Slavko Vesković,	Organizacija železničkog saobraćaja II, zbirka rešenih zadataka		Univerzitet u Beogradu, Saobraćajni fakultet	1999	
3,	Dragomir Mandić	Modeliranje izbora optimalnih relacija daljinskih putničkih vozova		Univerzitet u Beogradu, Saobraćajni fakultet	1995	
4,	Mirko Čičak, Dragomir Mandić	Neravnomernosti i njihov uticaj na utvrđivanje kapaciteta železnice		Univerzitet u Beogradu, Saobraćajni fakultet	1990	
5,	Zajenica jugoslovenskih železnica	Uputstvo 169 o prevozu ekspresnih pošiljaka		ŽELNID Beograd	1999	
6,	Mirko Čičak	Modeliranje u železničkom saobraćaju		Univerzitet u Beogradu, Saobraćajni fakultet	2003	

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Table 5.2 Course specification

Course:		Rail Transport Safety				
Course id:	S0153Ž					
Number of ECTS:	5					
Teachers:	Atanasković R. Predrag, Kostić I. Svetozar, Miličić S. Milica, Tanackov J. Ilija, Tepić Đ. Jovan					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
3	2	0	0	0		
Precondition courses						
1. Educational goal:						
Integrating knowledge from the technical (construction, mechanical, electrical) and technological part of railway system with legal and sub-legal acts that govern rail safety.						
2. Educational outcomes (acquired knowledge):						
The adoption of relevant technical and technological provisions of legal and sub-legal acts to manage the level of security in rail transport, and procedures in case of violation of the prescribed level of security.						
3. Course content/structure:						
Fundamentals of safety in railway transport. Law on Safety in railway transport. Indicators of security. The influence of human factors on safety in railway transport. Transport capacity and mechanical equipment of railways as a safety factor. Utilization of security features and some devices with special aspect of brakes and braking of trains. Safety at maneuvering. Safety at road crossings. Inspection and expertise of extraordinary events. Rail traffic and environmental protection. Transport of dangerous goods by rail.						
4. Teaching methods:						
Auditory lectures and exercises. Visit to railways. Analysis of cases of extraordinary events on the railway.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance		Yes	5.00	Oral part of the exam	Yes	70.00
Lecture attendance		Yes	5.00			
Term paper		Yes	20.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	Zajednica jugoslovenskih železnica	Evidentiranje podataka o vanrednim događajima nastalim u železničkom saobraćaju, Pravilnik 19		ŽELNID Beograd	2000	
2,	Zajednica Jugoslovenskih železnica	Uputstvo 79 o postupcima za slučaj vanrednih događaja		ŽELNID Beograd	1985	
3,	Zajednica jugoslovenskih železnica	Pravilnik 321 o merama bezbednosti i sigurnosti radnika pri izvođenju radova na pruži		ŽELNID Beograd	1992	
4,	Zajednica jugoslovenskih železnica	Pravilnik za međunarodni železnički prevoz opasne robe, RID, 193/21-02, 2001.		ŽELNID Beograd	2001	
5,	Zajednica jugoslovenskih železnica	Zakon o bezbednosti železničkog saobraćaja		ŽELNID Beograd	1996	
6,	Zajednica jugoslovenskih železnica	Uputstvo 227 o merama bezbednosti od električne struje na elektrificiranim prugama JŽ		ŽELNID Beograd	1978	
7,	Zajednica jugoslovenskih železnica	Priručnik 227a za primenu mera bezbednosti od električne struje na kontaknoj mreži monofaznog sistema 25 kV, 50 Hz JŽ		ŽELNID Beograd	1985	
8,	Marković Milan	Osnovi funkcionisanja železnice		Saobraćajni fakultet Beograd	1998	
9,	Zajednica jugoslovenskih železnica	Pravilnik 20 o prevozu naročitih pošiljaka		ŽELNID Beograd	1992	

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Table 5.2 Course specification

Course:		Prevention of Accidents				
Course id:	S052					
Number of ECTS:	5					
Teacher:	Jovanović M. Dragan					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
3	2	0	0	0		
Precondition courses		None				
1. Educational goal:						
<p>Investigating the forms and causes of accidents. The adoption and development of knowledge about the complexity and possibility of implementing measures of social mechanisms in the prevention and elimination of accidents. The study of different control options in traffic, as one of the most important preventive factor, which allows retention of traffic participant behavior in normatively permissible limits. The possibility of testing the effects of implemented measures to prevent accidents. The acquisition of knowledge about modern methods applied in the field of evaluation of accidents as negative social phenomena.</p>						
2. Educational outcomes (acquired knowledge):						
<p>Enabling students to organize and build a social mechanism, which would have the possibility of establishing the effective control over the negative developments in traffic, with particular reference to traffic accidents. The creation of planning and synchronized system of diverse and interrelated, organizational, social, educational, technical and science-based measures and activities, including risk in traffic flow within socially acceptable limits. The students develop and apply knowledge of the possibility for intelligent transport systems, preventing traffic accidents.</p>						
3. Course content/structure:						
<p>The strategy and tactics to prevent traffic accidents. The organization of society in the prevention of accidents. The role of national and international institutions in preventing traffic accidents. Methods and tactics to prevent traffic accidents. Resistance to traffic accidents causes on measures of social intervention. Cost reduction of traffic accidents. Measures of social intervention in the area of traffic safety. Standardisation. Preparing people for participation in traffic. Changing the behavior of traffic participants. The selection of certain categories of road users. Informing the traffic participants. Control and regulation of traffic. Repression.</p>						
4. Teaching methods:						
Lectures, exercises and consultations.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance		Yes	5.00	Theoretical part of the exam	Yes	35.00
Lecture attendance		Yes	5.00	Oral part of the exam	Yes	35.00
Term paper		Yes	20.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	Milan Inić	Bezbednost drumskog saobraćaja		Fakultet tehničkih nauka	2004	
2,	Milan Inić	Strategija i taktika sprečavanja saobraćajnih nezgoda		Fakultet tehničkih nauka	1994	
3,	Zbornik radova	Strategija sprečavanja saobraćajnih nezgoda na putevima		FTN, Novi Sad	1991	

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Table 5.2 Course specification

Course:		<h2 style="margin: 0;">Ship design and exploitation of ships</h2>				
Course id:	S0I52V					
Number of ECTS:	5					
Teacher:	Bačkalić M. Todor					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
3	2	0	0	0		
Precondition courses		None				
1. Educational goal:						
Acquiring knowledge about the ship's design and exploitation of ships.						
2. Educational outcomes (acquired knowledge):						
Application of acquired knowledge about basic principles of ship's design and the analysis of the effectiveness of river transport, quality increase in transport and optimal choice of variants for obeying the business rules with respect to water transport.						
3. Course content/structure:						
Basics of the ship's design. Ship hull elements: ship's structure, ship building systems, materials. Ship's strength: ship's structure as box section a on an elastic support, strength of specific elements, load, stress and moments of area. Classification societies. Calculation forms of hull loads and strength requirements according to classification society standards. Shipbuilding: shipbuilding technologies and basic technological processes, ship's equipment. Shipyards: infrastructure, devices and equipment. Special purpose vessels. Ship's maintenance. Transport productivity and efficiency indicators of river transports. Economic analysis of the effectiveness of transporting. Ways to increase the effectiveness of transporting. The intensification of the use of basic production resources of water transport. Enhancing the quality of transporting. Modeling the system of transporting water. Selection of optimal variants of transporting water. Design of transport systems, using computers. The organization of the enterprise of water transport. Organization in water transport. Maritime law and regulations. Insurance in water transport. Agency activities. Commercial business.						
4. Teaching methods:						
Lectures: oral presentations and computer presentations. Auditory exercises: oral presentations and computer presentations. Laboratory exercise: introduction to the work of instruments for measurement of real systems, fieldwork and visits to institutions and companies dealing with the subject matter.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance		Yes	4.00	Final exam - part one	Yes	35.00
Laboratory exercise attendance		Yes	4.00	Final exam - part two	Yes	35.00
Lecture attendance		Yes	2.00			
Term paper		Yes	20.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	Čolić Vladeta, Radmilović Zoran, Vladimir Škiljaica	Vodni saobraćaj		Saobraćajni fakultet Univerziteta u Beogradu	2002	
2,	Škiljaica Vladimir, Bačkalić Todor	Tehnologija vodnog saobraćaja deo I - Plovna prevozna sredstva		Fakultet tehničkih nauka Univerziteta u Novom Sadu	2004	
3,	Jovanović Mladen	Projektovanje broda		Saobraćajni fakultet, Beograd	2002	
4,	Jovanović Mladen	Izgradnja i održavanje broda		Saobraćajni fakultet, Beograd	2005	
5,	***	Pravila gradnje brodova unutrašnje plovidbe		Jugoslovenski registar brodova	1994	

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Table 5.2 Course specification

Course:		Traffic Safety Measures				
Course id:	S0I5B					
Number of ECTS:	5					
Teacher:	Jovanović M. Dragan					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
3	2	0	0	0		
Precondition courses		None				
1. Educational goal:						
The study of traffic safety measures. Acquiring knowledge about the types, methodology, implementation and effects of various measures on basic traffic safety factors (human behavior, road and vehicle safety, prevention of accidents , etc..)						
2. Educational outcomes (acquired knowledge):						
The possibility of professional understanding of complex system of relations for the purpose of applying traffic safety measures and changes of fundamental traffic safety parameters. Traffic safety parameters. Acquiring knowledge on the development and implementation of methodology for wide range of security traffic measures. Acquiring knowledge about the effects, costs and evaluation of the effects of traffic safety measures.						
3. Course content/structure:						
The subject of study. Reaction of the society in the field of traffic safety. Concept and types of traffic safety measures. Measures directed towards a human being. Measures directed towards the roads. Measures directed towards the vehicles. Other measures. The impact of the measures on the traffic safety(the number and consequences of traffic accidents). The methodology of planning and implementation of traffic security measures. The effects of traffic safety measures. The costs of traffic safety measures. The evaluation of traffic safety measures.						
4. Teaching methods:						
Lectures, auditory and computational exercises. This course provides preparation for the seminar paper in which students apply the acquired knowledge about the analysis of traffic accidents.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes	35.00
Lecture attendance		Yes	5.00	Oral part of the exam	Yes	35.00
Term paper		Yes	20.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	Milan Inić	Bezbednost drumskog saobraćaja		Fakultet tehničkih nauka	2004	
2,	Milan Inić	Strategija i taktika sprečavanja saobraćajnih nezgoda		Fakultet tehničkih nauka	1994	
3,	Rune Elvik	The handbook of road safety measures		Elsevier	2002	
4,	Milan Inić	Bezbednost drumskog saobraćaja skripta II deo		FTN Novi Sad	2004	
5,	Zbornik radova	Strategija sprečavanja saobraćajnih nezgoda na putevima		FTN, Novi Sad	1991	
6,	Radoslav Dragač, Milan Vujanić	Bezbednost saobraćaja II deo		Saobraćajni fakultet, Beograd	2002	
7,	Milan Vujanić	Zbirka rešenih zadataka iz bezbednosti saobraćaja I deo		Saobraćajni fakultet, Beograd	1991	

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Table 5.2 Course specification

Course:		<h2 style="margin: 0;">Forensic Engineering in Traffic</h2>				
Course id:	S0I53F					
Number of ECTS:	5					
Teacher:	Papić M. Zoran					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
3	2	0	0	0		
Precondition courses						
1. Educational goal:						
Acquiring knowledge of forensic engineering in the field of traffic engineering. Mastering the procedures and methods of forensic engineering.						
2. Educational outcomes (acquired knowledge):						
Enabling students to apply engineering knowledge, investigating adverse events in traffic engineering. Mastering testing technique for trace analysis of relevant traffic accidents and other adverse events in traffic. Training for application of modern technical equipment and laboratory research in forensic engineering.						
3. Course content/structure:						
The concept, role and importance of forensic engineering. Trace evidence, concept, significance. Laboratory testing of traces in traffic accidents. Forensic photogrammetry. Examination of technical accuracy and harm to vehicles based on damage. Examination of the position of passenger in the vehicle at the time of the accident. Experimental research in traffic accidents. Influence of road elements to the occurrence of harmful events. Forensic investigation of damage to the goods occurred during transport. Using application software in forensic engineering.						
4. Teaching methods:						
Lectures, auditory and laboratory exercises.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance		Yes	4.00	Written part of the exam - tasks and theory	Yes	35.00
Laboratory exercise attendance		Yes	4.00	Oral part of the exam	Yes	35.00
Lecture attendance		Yes	2.00			
Term paper		Yes	20.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	Kostić, S.	Tehnike bezbednosti i kontrole saobraćaja		Fakultet tehničkih nauka	2005	
2,	Lipovac, K.	Uviđaji saobraćajnih nezgoda-Elementi saobraćajne trasologije		VŠUP, Zemun	2000	
3,	Lipovac, K	Uviđaji saobraćajnih nezgoda-Fotografisanje		VŠUP Zemun	1997	
4,	Špagnut, D.	Tehnološke osobine robe u transportu		Saobraćajni fakultet Beograd	1984	
5,	Kostić, S.	Ekspertize saobraćajnih nezgoda		FTN, Novi Sad	2009	
6,	Rotim, F., Peran, Z.	Forenzika prometnih nesreća		Hrvatsko znanstveno društvo za promet, Zagreb	2011	
7,	Van Kirk, D	Vehicular accident investigation and reconstruction		CRC Press, Boca Raton, Florida, USA	2001	
8,	Šotra, D.	Štetni događaji u saobraćaju		AMS Osiguranje, Beograd	2010	

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Table 5.2 Course specification

Course:		<h2 style="margin: 0;">Navigation and vessel traffic control</h2>			
Course id:	S0I53V				
Number of ECTS:	5				
Teacher:	Bačkalić M. Todor				
Course status:	Elective				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	2	0	0	0	
Precondition courses		None			
1. Educational goal:					
Acquisition of basic knowledge about the characteristics of navigation on inland waterways and sea, and about processes of vessel traffic control.					
2. Educational outcomes (acquired knowledge):					
Application of acquired knowledge in the analysis of waterways navigation features and in vessel traffic control.					
3. Course content/structure:					
Devices and equipment for navigation. Means of communication characteristics of river navigation. The main characteristics of the Danube, the Sava, the Tisa, OKM HS DTD from the point of sailing. Marking and labeling vessel. Marking of the waterway. Regulation and governing navigation on the UPP. Characteristics of maritime navigation. Terrestrial navigation. Astronomical navigation. Radio navigation. Navigation systems. Satellite navigation. Regulation and management of navigation at sea. Characteristics of navigation regulation and vessel traffic control on inland waterways. Information systems and services in navigation and vessel traffic control on inland waterways. Vessel traffic control on critical waterway sections and artificial waterways. Regulation and control of sea navigation.					
4. Teaching methods:					
Lectures: oral presentations and computer presentations. Auditory exercises: oral presentations and computer presentations. Laboratory exercise: introduction to the instruments for measurement of real systems, fieldwork and visits to institutions and companies dealing with the subject matter.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	
				Mandatory	Points
Exercise attendance		Yes	4.00	Final exam - part one	
Laboratory exercise attendance		Yes	4.00	Final exam - part two	
Lecture attendance		Yes	2.00		
Term paper		Yes	20.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	V. Čolić i drugi	Evropska plovna magistrala Severno more - Crno more		Saobraćajni fakultet Univerziteta u Beogradu	1995
2,	V. Čolić i drugi	Plovidbene mogućnosti kanalske mreže hidrosistema Dunav-Tisa-Dunav		Saobraćajni fakultet Univerziteta u Beogradu	2000
3,	Z. Hrle i drugi	Sistemi elektronske navigacije u vodnom saobraćaju		Saobraćajni fakultet Univerziteta u Beogradu	2006
4,	Hrle Zlatko i drugi	Primena elektronske navigacije u vodnom saobraćaju		Saobraćajni fakultet, Beograd	2007

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Table 5.2 Course specification

Course:		<h2 style="margin: 0;">Theory of ship's motion and maneuverability</h2>				
Course id:	S0MI12					
Number of ECTS:	5					
Teachers:	Bačkalić M. Todor, Bukurov Ž. Maša					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
3	2	0	0	0		
Precondition courses		None				
1. Educational goal:						
Acquire knowledge in scientific fields and disciplines about ship motion theory and maneuvering of ships (ship resistance and propulsion, devices and equipment for ship control and maneuvering, electronic systems and equipment for ship tracking and monitoring).						
2. Educational outcomes (acquired knowledge):						
Application of acquired knowledge in analysis of ship resistance and propulsion, and in analysis of maneuvering and control of ship and convoys motion.						
3. Course content/structure:						
Basics of fluid mechanics. Ship resistance. Ship resistance calculation. Influence of waterways dimensions on ship resistance increase. Resistance of ship convoys. Propulsors (basics, ship paddle, propeller). The basic characteristics of navigation of ships and composition. Moorings and forming composition. Management of individual ships. Management of pressurized component. Management of tugging compositions. Cruising the canals. Management of ships and compositions when going through the ship locks. Management of ships and compositions in special navigation conditions. The calculation of basic characteristics of boat and composition. Experiments in the field of management and maneuvering of ships and compositions.						
4. Teaching methods:						
Lectures: oral presentations and computer presentations. Auditory practice: oral presentations and computer presentations. Laboratory practice: introduction to the usage of instruments for measuring real system parameters, visiting the terrain and visiting establishments and companies dealing with the course matter.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance		Yes	5.00	Final exam - part one	Yes	35.00
Lecture attendance		Yes	5.00	Final exam - part two	Yes	35.00
Term paper		Yes	20.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	Bukurov Žarko	Mehanika fluida		FTN, Novi Sad	1975	
2,	Čolić Vladeta, Vukadinović Katarina	Istraživanje veličine otpora pri plovidbi dunavskih teretnih brodova		Saobraćajni fakultet u Beogradu	2004	
3,	Škiljaica Vladimir	Teorija upravljanja brodovima		FTN, Novi Sad	1995	
4,	Čolić Vladeta	Otpor broda – savremene metode proračuna		Saobraćajni fakultet u Beogradu	2002	
5,	Čolić Vladeta	Naučna analiza eksperimentalnih ispitivanja veličine otpora pri plovidbi savremenih brodova dunavske plovne mreže		Saobraćajni fakultet u Beogradu	1985	
6,	Zobenica Radovan	Propulzivno krmilarski kompleks i upravljanje brodovima		Saobraćajni fakultet, Beograd	2002	

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Table 5.2 Course specification

Course:		Traffic Forecasts				
Course id:	S01594					
Number of ECTS:	5					
Teachers:	Basarić B. Valentina, Simeunović M. Milan					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
3	2	0	0	0		
Precondition courses		None				
1. Educational goal:						
Acquiring knowledge in the field of application and development of new mathematical traffic demand models. Application of computer technology for the purpose of analysis and forecast transportation demand on the national, regional and local-city level, as a function of the current and expected socio-economic and spatial development of areas which are the subject of analysis and forecast in relation to traffic demand.						
2. Educational outcomes (acquired knowledge):						
Implementation, improvement and development of mathematical and statistical methods for the traffic demand forecasting. Acquisition of skills determining interdependencies between indicators of socio-economic development, land using, traffic demand and traffic supply. Acquiring knowledge in the field of using modern computer programs application for the testing transport policy effects and for the alignment of transport demand and supply.						
3. Course content/structure:						
Basic concepts and definitions of traffic demand. Temporal and spatial concentration of demand: causes and consequences. Basic concepts of prediction and forecasting. The importance and role of forecasts and / or prediction of traffic planning. Methods and procedures of forecasting: time series, regression analysis, cross- classification - category analysis. Application of the theory of probability to forecast traffic demand. Statistical evaluations of forecast results. Basic concepts and definitions of traffic supply, transport ability of vehicles, supply elements of transport networks. Alignment methods of transport demand and supply. Critical analysis of classical four step model. Target modal split model. Computer programs for testing and simulation of the harmonization effects of transport demand and supply. Appraisal of transport models.						
4. Teaching methods:						
Lectures, practical laboratory and computational exercises. This course enables students to perform independent assignment-seminar paper and examination through partial examinations.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance		Yes	5.00	Final exam - part one	Yes	35.00
Lecture attendance		Yes	5.00	Final exam - part two	Yes	35.00
Term paper		Yes	20.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	M. Maletin	Planiranje saobraćaja i prostora		Građevinski fakultet Beograd	2004	
2,	D. Banister	Transport Planning		Spon Press, London&New York	2002	
3,	Road research	Urban traffic models - possibilities for simplification		OECD	1974	
4,	F.Koppelman, C.Bhat	A self Instructing Course in Mode Choice Modeling: Multinomial and Nested Logit Models		U.S. Department of Transportation	2006	
5,	J. de Dios Ortuzar, L.G. Willumsen	Modelling Transport, 3rd Edition		Wiley	2003	

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Table 5.2 Course specification

Course:		<h2 style="margin: 0;">Shaping Logistics Processes in Supply Chains</h2>				
Course id:	S01597					
Number of ECTS:	5					
Teacher:	Nikoličić S. Svetlana					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
3	2	0	0	0		
Precondition courses						
1. Educational goal: Introduction to basic principles of logistics management within the supply chain and their importance in contemporary business conditions.						
2. Educational outcomes (acquired knowledge): Acquiring the necessary knowledge concerning the technical and technological nature of the key components of logistics processes within the chain of supply. Development of analytical and managerial skills necessary for successful application of this knowledge.						
3. Course content/structure: Basic assumptions related to logistics and supply chains. Logistics strategy and planning. Information Technology and its impact on the coordination of logistics activities. The strategy of stock. Transport strategy. Logistic prediction. Formatting of logistics networks, location strategies. Logistics controlling.						
4. Teaching methods: Lectures, auditory and computer exercises, consultations for seminar paper elaboration.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Computer exercise attendance		Yes	3.00	Written part of the exam - tasks and theory	Yes	35.00
Exercise attendance		Yes	3.00		Oral part of the exam	Yes
Lecture attendance		Yes	4.00			
Term paper		Yes	20.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	Chopra, S., Meindle, P.	Supply Chain Management: Strategy, Planning and Operations		Prentice Hall	2003	
2,	Ronald H. Ballou	Business Logistics Management		Prentice Hall	1999	
3,	Risto Perišić	Savremene tehnologije transporta 1-integralni sistemi transporta		Univerziteti u Beogradu, Sarajevu, Rijeci, Novom Sadu	1985	
4,	Slobodan Zečević	Robni terminali i robno-transportni centri		Saobraćajni fakultet Beograd	2006	
5,	David J. Bloomberg, Stephen le May, Joe B. Hanna	Logistika		Pearson Education Inc Yagreb	2006	
6,	Christof Schulte	Logistik-2		Auflage, Verlag Franz Vahlen Munchen	1995	
7,	Ljiljana Gereke	Poslovna logistika		VPŠ Beograd, IRO Naučna knjiga Beograd	1991	
8,	Risto Perišić	Savremene tehnologije transporta 2		Saobraćajni fakultet Beograd	1991	

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Table 5.2 Course specification

Course:		E-Logistics				
Course id:	S0I598					
Number of ECTS:	5					
Teacher:	Simić S. Dragan					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
3	2	0	0	0		
Precondition courses		None				
1. Educational goal:						
Acquisition of basic knowledge about the role and importance of electronic logistics (e-logistics) and the impact contemporary information technologies and information systems have on logistics trends and supply chain management in contemporary business systems.						
2. Educational outcomes (acquired knowledge):						
Acquisition of basic knowledge about the concept, role and importance of e-logistics in modern supply chains and the impact modern management information systems and information technology have on shaping the flows of goods and related logistic processes.						
3. Course content/structure:						
Trends in information technology development. Management information system. Information systems for the management of company resources. E-business, fields and models. Correlation between e-commerce and logistics. Information systems for transport management. Information systems for warehouse management. E-logistics systems. Logistics information systems. EDI / EDIFACT standard. Application of bar code symbologies and radio frequency identification in e-logistics systems.						
4. Teaching methods:						
Lectures, exercises, computer exercises and continuous individual work.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Lecture attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes	50.00
Term paper		Yes	25.00			
Test		Yes	20.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	Frank Straube	E – Logistik		Springer-Verlag	2004	
2,	David F. Ross	Introduction to e-Supply Chain Management		St. Lucic Press	2003	
3,	Danuta Kisperska-Moron, Stanisław Krzyzaniak	Logistyka		Institut Logistyki i Magazynowania	2009	
4,	Miguel Angel Pesquera	E-Logistics (II)		Logis Book	2000	

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Table 5.2 Course specification

Course:		Reverse and Green logistics					
Course id:	LIM31						
Number of ECTS:	5						
Teacher:	Stojanović M. Đurđica						
Course status:	Elective						
Number of active teaching classes (weekly)							
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:			
3	2	0	0	0			
Precondition courses							
1. Educational goal:							
Acquiring knowledge about the role, significance and impact of logistics on the environment and specific features of reverse flows in extended supply chains.							
2. Educational outcomes (acquired knowledge):							
Acquisition of basic theoretical and practical knowledge about the environmental aspect of logistics and specific features of reverse flows in extended supply chains. The ability to identify and quantify measurable effects of the logistics impact on the environment.							
3. Course content/structure:							
The influence of transport on the environment. Green supply chains. International and domestic legal frameworks for environmentally responsible management of logistics processes. Systems monitoring of the impact of transport on the environment. Reverse logistics. Extended supply chains. Logistics recycling. Reverse logistics in e-commerce and trade. Reverse logistics in cities. Concept and types of waste. Shaping the logistics chain in waste motion. Logistics requirements and concepts in motion of hazardous waste. International and domestic sources of law governing waste management. The documentation related to the movement of waste. Green logistics. The impact of transport on the environment. Identification and quantification of external influences and external costs of logistics. Indicators and monitoring of the impact of transport, storage and packaging on the environment. Influence of transport on air pollution, role and importance of cargo traffic in the creation of air pollution and greenhouse gases. Calculation of emissions. Measures to reduce the harmful impact of transport on the environment.							
4. Teaching methods:							
Lectures, auditory exercises, consultations							
Knowledge evaluation (maximum 100 points)							
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points	
Exercise attendance		Yes	5.00	Final exam - part one		No	50.00
Lecture attendance		Yes	5.00	Written part of the exam - tasks and theory		Yes	70.00
Term paper		Yes	20.00				
Literature							
Ord.	Author	Title		Publisher	Year		
1,	Joseph Sarkis	Greening the Supply Chain		Springer, ISBN 1-84628-298-5	2006		
2,	Rommert Dekker, Moritz Fleischmann, Karl Inderfurth, Luk N, Van Wassenhove	Reverse Logistics		Springer, ISBN 3-540-40969-4	2004		
3,	Stojanović, Đ., Veličković, M.	THE IMPACT OF FREIGHT TRANSPORT ON GREENHOUSE GASES EMISSIONS IN SERBIAN CITIES - THE CASE OF NOVI SAD		Metalurgia international ISSN: 1582-2214, Romanian Metallurgical Foundation, Scientific Publishing House, Bucarest	2012		

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Table 5.2 Course specification

Course:		<h2 style="margin: 0;">Electrical Substation and Electric Traction</h2>				
Course id:	S0151Ž					
Number of ECTS:	5					
Teachers:	Grabić U. Stevan, Gušavac J. Strahil, Katić A. Vladimir					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
3	2	0	0	0		
Precondition courses		None				
1. Educational goal:						
Acquiring knowledge on the basis of stable and mobile electric railway systems: design, maintenance and reconstruction of electric power, electric elements and characteristics of the signal-safety devices and stable inverter and traction systems.						
2. Educational outcomes (acquired knowledge):						
A complete understanding of the power system of railways. Knowledge about the basic elements operation for the regulation of trains traffic, security and technological conditions of their development and use. Facts about preserving personal safety conditions, safety of passengers and goods, and continuity of SS devices in the power environment. Possibility of analysis and calculation of electric power trains in electric traction, as well as converter components in locomotives, passenger and cargo wagons and other railway vehicles.						
3. Course content/structure:						
Basic concepts of electrical engineering, electronics and modern digital circuits. The application of electronic principles in the energy sector - circuits / power electronic converters. Railway signaling systems, the station signaling and safety devices. Technical means of regulating the provision of traffic on the inter-station distance. Technical means for controlling occupancy of tracks and switches. Arrangements for the regulation and provision of rail and road traffic in the area of their level crossing. Technical means to automatically stop the train. The system of centralized dispatching modern systems for managing the movement of trains. Fundamentals of communication systems on the railway. Stable electric traction systems, traction, electric traction substations, contact line. Principles of operation of electric drives in electric traction vehicles. The application of electricity in passenger and freight trains and long railway vehicles.						
4. Teaching methods:						
Auditory lectures and exercises. Visits to the railway. Signaling and security sector, the sector of continuous power supply for the locomotives, repair halls for the locomotives, wagons and other vehicles.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes	50.00
Lecture attendance		Yes	5.00			
Test		Yes	10.00			
Test		Yes	10.00			
Test		Yes	10.00			
Test		Yes	10.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	Kopić Đorđe	Tehnologija železničkog saobraćaja		FTN izdavaštvo	2006	
2,	Zajednica jugoslovenskih železnica	Pravilnik 400 o održavanju SS poslojenja		ŽELNID Beograd	1985	
3,	Zajednica jugoslovenskih železnica	Pravilnik 213 o održavanju stabilnih postrojenja električne vuče na prugama		ŽELNID Beograd	1985	
4,	Zajednica jugoslovenskih železnica	Uputstvo 264 za merenje i ispitivanje kontaktne mreže na prugama JŽ		ŽELNID Beograd	1989	
5,	Zajednica jugoslovenskih železnica	Pravilnik 314 o održavanju gornjeg stroja pruga JŽ		ŽELNID Beograd	1970	
6,	Zajednica jugoslovenskih železnica	Pravilnik 316 o tehničkim normativima za određivanje veličina opterećenja i kategorizaciju železničkih mostova, propusta		ŽELNID Beograd	1992	
7,	Dimitrije Dinić	Željeznička električna vozila		Univerzitet u Beogradu-Saobraćajni fakultet, Beograd	1996	

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Table 5.2 Course specification

Course:		PROJECT MANAGEMENT				
Course id:	S0M22					
Number of ECTS:	3					
Teachers:	Atanasković R. Predrag, Simić S. Dragan, Tanackov J. Ilija					
Course status:	Mandatory					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
2	2	0	0	0		
Precondition courses		None				
1. Educational goal:						
<p>Gaining knowledge about the basics of project management in the organizational, technical and technological, management processes and activities that are associated with the development projektne documentation and processes that are associated with activities related to the realization of the project, knowledge of the use of specialized software used for project management, introduction to the kinds of projects.</p>						
2. Educational outcomes (acquired knowledge):						
<p>Theoretical and practical ismeretek and skills in project management in the organizational, technical and technological, obučenost to work on specialized software used in the implementation and monitoring of projects. Classes and exercises tailored to students of Department of Transportation's FTS.</p>						
3. Course content/structure:						
<p>The goals and tasks of the project. The importance of management projekotm design documentation and implementation of projects in the obstruction and specific sense. Concept and types of projects. What is a project. What are the definitions projekatata and what types of projects postoje.Šta includes a broader definition of the project. What are the common characteristics of the projects. What are the main objectives of the projects in the organizational, technological and technical issues. What are the costs of the project and what kind of cost is in the process of project preparation and execution of a project. The existing organizational concepts related to project management. The development and characteristics of the concept of organizational project management. Organization types related to project management. Human resource management in the project of - base, risk management-project basis. Managing change in the project. Existing concepts of project management in technical and technological terms. The realization of the project: planning time needed for the project from the organizational, technical and technological terms (with examples in the field of transport and infrastructure), planning resources for the execution of the project (in the technical and technological terms (with examples in the field of transport and infrastructure) costs palniranje project. monitoring and control of the project. methods and techniques in project management troughs. network plan, the CPM method (Critical Path Method), method PERTH, PBS (Personal BRAKEDOWN structure), WBC (WORK BRAKEDOWN Structure), OBS (Organization BRAKEDOWN structure). Microsft SOFTWARE 2007, Onovo PRIMAVERA software 2006th separately for each group of students suitable examples related to project management with defined activities, resources and time necessary, with the use of Microsoft Project.</p>						
4. Teaching methods:						
<p>Lectures and exercises, colloquiums and examination. The exam is taken in two colloquially tests + oral exam or complete examination of the final exam (written + oral). Students who decide to take the exam through tests, test 1 and take second kolopkvijum In the event that a student pass the test one has the possibility to take the second test In case you pass the test and 2, released only in the oral exam. A student who fails the test 1 (or does not come to pass the tests 1), there is no opportunity to go to test 2, and outputs the entire exam: written + verbally. A student may, during the school year take up to three times in this case.</p>						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Computer exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes	30.00
Lecture attendance		Yes	5.00	Oral part of the exam	Yes	40.00
Term paper		Yes	20.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	S1443A	KAO ZA PREDMET S1443A			2012	

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Table 5.2 Course specification

Course:		Professional Internship					
Course id:	S055						
Number of ECTS:	2						
Teachers:							
Course status:		Mandatory					
Number of active teaching classes (weekly)							
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:			
0	0	0	0	3			
Precondition courses		None					
1. Educational goal:							
Gaining direct knowledge of the functioning and organization of companies and institutions dealing with matters within profession for which the student qualifies and possibilities of applying previously acquired knowledge into practice.							
2. Educational outcomes (acquired knowledge):							
Training students to apply previously acquired theoretical and professional knowledge to solve specific practical engineering problems in the selected companies or Institutions. Introduce students to selected industries companies` or institutions` activities, ways of doing business, management and the place and role of engineers in their organizational structures.							
3. Course content/structure:							
Formed for each candidate separately, in agreement with the management of the company or institution where professional practice is performed and in accordance with the needs of the profession for which the student qualifies.							
4. Teaching methods:							
Consultation and writing in journals of professional practice in which a student describes the activities and tasks that he/she performed during the internship.							
Knowledge evaluation (maximum 100 points)							
Pre-examination obligations		Mandatory	Points	Final exam		Mandatory	Points
Presentation		Yes	10.00	Oral part of the exam		Yes	70.00
Term paper		Yes	20.00				
Literature							
Ord.	Author	Title			Publisher		Year
1,	organizacija gde se obavlja stručna praksa	interna akta organizacije u kojoj se obavlja stručna praksa					2012

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Table 5.2 Course specification

Course:		Studijsko istraživački rad na teorijskim osnovama - master rad			
Course id:	S1M01				
Number of ECTS:	5				
Teachers:					
Course status:	Mandatory				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
0	0	0	7	0	
Precondition courses		None			
1. Educational goal:					
<p>The application of basic theoretical, methodological, scientific, technical and professional knowledge and application of methods to solve specific problems within the selected area. In the second part of this master thesis, students study the problem, and the complexity of its structure and on the basis of the analysis draws conclusions on the possible ways of solving it. Studying literature students are introduced to the methods are designed for solving similar tasks and engineering practice in solving them. The aim of the activities of students in this part of the research is to acquire the necessary experience in solving complex problems and tasks and possibilities for the application of previously acquired knowledge in practice.</p>					
2. Educational outcomes (acquired knowledge):					
<p>Training students to independently apply previously acquired knowledge in different fields that have been previously studied, in order to review the structure of the given problem and its system analysis in order to draw conclusions on possible directions for its resolution. Through the use of literature alone, students expand their knowledge of selected field and the study of various methods and papers relating to similar problems. In this way, the students develop the ability to conduct analysis and identify problems within the given topic. Practical application of acquired knowledge in different areas of studenata develop the ability to look at the place and role of engineers in the chosen field, the need to cooperate with other professions and teamwork.</p>					
3. Course content/structure:					
<p>Formed in accordance with the individual needs of the working out of a master thesis, its complexity and structure. Students study the literature, graduate and master thesis, projects that deal with similar topics, makes analyzes in order to find solutions specific task which is defined task of master thesis work. Part of teaching the course is conducted through independent study research. Studio work includes active monitoring of the primary themes of knowledge, organization and conduct experiments, numerical simulation and statistical analysis of data, writing and / or disclosure of the conference from the narrow field of science teaching which belongs to the master theme of work.</p>					
4. Teaching methods:					
<p>Mentor of master thesis of the task compiles and submits it to the student. The student is required to work within the framework of the development of a given topic, which is defined task of master thesis work, using literature from the proposed mentor. During the preparation of of master thesis, a mentor can give students additional guidance, refer to specific literature and further directed him to of master thesis the production of quality work. In the research study, the student consults with the supervisor, if necessary, with other teachers who are dealing with the topics of the field work. Within a given topic, the student, if necessary perform certain measurements, tests, counts, surveys and other research, statistical data, if provided task of master thesis work.</p>					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	
				Mandatory	Points
Literature					
Ord.	Author	Title		Publisher	Year

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Table 5.2 Course specification

Course:		Elaboration and Defense of Master Thesis				
Course id:	S01512					
Number of ECTS:	15					
Teachers:						
Course status:		Mandatory				
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
0	0	0	0	10		
Precondition courses		None				
1. Educational goal:						
<p>Acquiring knowledge about the mode, structure and form of writing the report after conducting analysis and other activities implemented within the stated topic of the final paper. Producing the final paper, students gain experience in writing papers in which it is necessary to describe the problem, methods and procedures implemented and result reached. In addition, the aim of making and defense of the final paper is to develop student's ability to prepare the results of independent work in a suitable form for public presentation, and respond to comments and questions about the given topic.</p>						
2. Educational outcomes (acquired knowledge):						
<p>Training of students for a systematic approach in solving the given problem, carrying out the analysis, applying acquired knowledge as well as accepting knowledge from other fields in order to find solutions for given problem. By self-studying and solving tasks in the given topics, students acquire knowledge about the complexity and difficulty of their profession. Through creating thesis students gain some experience that can be applied in practice in solving problems in the scope of their profession. By preparing the results for public defense, and responding to questions and complaints of committee, a student gains the necessary experience for presenting results of independent or collective work in practice.</p>						
3. Course content/structure:						
<p>Formed in accordance with individual needs and area covered by a given topic of the final paper. A student in consultation with the supervisor makes the final work in writing in accordance with the standards of the Faculty of Technical Sciences. A student prepares and defends a written final paper publicly, in agreement with the supervisor and in accordance with standards.</p>						
4. Teaching methods:						
<p>During the elaboration of diploma paper, a student is consulting a supervisor, and if necessary, other teachers who are dealing with a topic area of diploma paper. The student makes the final paper and after the approval by the Commission for assessment and defense, is obliged to deliver bound copies to the Commission. The defense of the final paper is public, and after presentation, a student is required to answer the questions and comments orally.</p>						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Table 5.2 Course specification

Course:		<h2 style="margin: 0;">Planning of Public transport</h2>				
Course id:	S0MJ4					
Number of ECTS:	5					
Teachers:	Basarić B. Valentina, Gladović V. Pavle, Simeunović M. Milan					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
3	2	0	0	0		
Precondition courses		None				
1. Educational goal:						
Mastering theoretical and practical knowledge related of public transport, grid lines, integration of transport supply, potential mobility and others.						
2. Educational outcomes (acquired knowledge):						
Enabling students for individual work in order to practically define the generator of transport demands, the quality normative for transport service, and the elaboration of technical documentation related to urban passenger transport. Training students to work on the planning of transport networks, transport models Integrations offers and the like.						
3. Course content/structure:						
Introduction, basic concepts and theoretical models. Methods and procedures in the planning of public transport network lines, methods and procedures for assessing the quality of public transport network lines, models of integration of transport supply. Physical, tariff, logic and wider integration.						
4. Teaching methods:						
Lectures, auditory, computer and graphical – numerical practice and consultations.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes	30.00
Lecture attendance		Yes	5.00		Oral part of the exam	Yes
Term paper		Yes	20.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	Radovan Banković	Planiranje javnog gradskog putničkog prevoza		Graževinska knjiga, Beograd	1984	
2,	Vukan Vučić	Urban transit operations, planning, and economic		John Wiley & Sons, Inc., Hoboken, New jersey	2005	
3,	Peter White	Public transport: its planning, menagement and operation		Taylor & Francis group	2002	

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Table 5.2 Course specification

Course:		Waterways and Ports				
Course id:	S0I51V					
Number of ECTS:	5					
Teacher:	Bačkalić M. Todor					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
2	2	0	0	0		
Precondition courses		None				
1. Educational goal:						
Acquiring knowledge about natural and artificial waterways, hydro-technical facilities and navigation requirements, technical and technological characteristics of ports.						
2. Educational outcomes (acquired knowledge):						
Application of acquired knowledge of technical and technological characteristics of waterways and ports when solving the problem of defining logistics chains and supply chains. Knowledge of waterways and ports defines the place and role of water traffic in the base composed of knowledge gained from other cases that deal with modes of transport.						
3. Course content/structure:						
The basic exploitation qualities of waterways. The basics of river sediment and morphology. Regulation of rivers for navigation: determination of the natural characteristics of the regime and the necessary volume of regulation, regulation of the river bed, river channeling. Navigable channels. Influence of the speed of navigation on the canal bank. Ship locks. Maintenance of inland waterways. Fundamentals of waterways and ports at sea. Information systems and management of traffic on navigable waterways. Port Terminals: General cargo terminal, container terminal, multi-purpose terminal, Ro-Ro terminal, bulk terminal cargo, liquid cargo terminal, the terminal for container-floating barges. Processing and servicing of transport vessel assets in ports: operation technology of transport vessels in the ports, the structure of commodity operations and coordination with operation of port assets and common forms of transportation, distribution of vessels in landing places. Port planning and development: phase of port development, port management development, principles of planning, traffic forecasts, detailed planning and zoning, investment planning. Models of port planning system - an analytical and experimental model. Analytical models of port system with Markovski discrete and continuous time chains. Models for the composition processing of towboats and barges in the clasp of anchorage-operative banks. The analytical models for determining the medium relative time for vessels waiting at anchorage. Experimental model - a port simulation model.						
4. Teaching methods:						
Lectures: oral presentations and computer presentations. Auditory exercises: oral presentations and computer presentations. Laboratory exercise: introduction to the instruments for measurement of real systems, fieldwork and visits to institutions and companies dealing with the subject matter.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance		Yes	5.00	Final exam - part one		35.00
Lecture attendance		Yes	5.00	Final exam - part two		35.00
Term paper		Yes	20.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	Muškatirović Dragutin	Unutrašnji plovni putevi i pristaništa		Saobraćajni fakultet Univerziteta u Beogradu	1992	
2,	Radmilović Zoran	Planiranje i razvoj luka i pristaništa		Saobraćajni fakultet Univerziteta u Beogradu	1994	
3,	Jovanović Miodrag	Regulacija reka - Rečna hidraulika i morfologija		Građevinski fakultet Univerziteta u Beogradu	2002	

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Table 5.2 Course specification

Course:		Railway Lines and Stations				
Course id:	S015ŽS					
Number of ECTS:	5					
Teachers:	Atanasković R. Predrag, Miličić S. Milica, Stojić S. Gordan, Tanackov J. Ilija, Tepić Đ. Jovan					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
3	2	0	0	0		
Precondition courses						
1. Educational goal: Acquiring knowledge on the basics of design, maintenance and reconstruction of railway tracks, station track capacity and railway junctions.						
2. Educational outcomes (acquired knowledge): A complete understanding of the railway tracks, railway stations and nodes as a continuous set of spatial facilities and influence of design, reconstruction and maintenance on security, technology and economics of rail transport.						
3. Course content/structure: The structural elements of the railway lines. Elements of the route plan and profile. Arranging tracks in the direction of the curves. Design of railway lines. Developing a plan and profile of the route track. The version evaluation of railway tracks. The structural elements of the railway station. Installations for the gauge connection. The basic station structures. The basic elements and methods for sizing of station capacity. Railway junction. The methodology of designing railway stations and the nodes. Port railway station, cargo transport centers and terminals. Reconstruction of the station and official places. Calculation and testing of bottle necks. Maintenance and reconstruction of railway lines and stations.						
4. Teaching methods: Lectures and exercises. Design of the railroad tracks at a ratio of 1:10000 (min. 10 km). Design of the railway junction in ratio of 1:1000 (passenger, shunting, depot, other plants). Visit to the railway stations.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes	20.00
Graphic paper		Yes	20.00	Oral part of the exam	Yes	30.00
Graphic paper		Yes	20.00			
Lecture attendance		Yes	5.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	Zajednica jugoslovenskih železnica	Pravilnik 314 o održavanju gornjeg stroja pruga JŽ		ŽELNID, Beograd	1970	
2,	Zajednica jugoslovenskih železnica	Pravilnik 315 o održavanju donjeg stroja pruga JŽ		ŽELNID, Beograd	1986	
3,	Zajednica jugoslovenskih železnica	Pravilnik 325 o kategorizaciji pruga		ŽELNID, Beograd	1986	
4,	Zajednica jugoslovenskih železnica	Pravilnik 316 o tehničkim normativima za određivanje veličina opterećenja i kategorizaciju železničkih mostova, propusta		ŽELNID, Beograd	1992	
5,	Miloš Ivić	Železničke pruge		Univerzitet u Beogradu, Saobraćajni fakultet	2005	
6,	Miloš Ivić	Železničke pruge i stanice-postrojenja za vezu koloseka		Univerzitet u Beogradu, Saobraćajni fakultet	2005	

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Table 5.2 Course specification

Course:		<h2 style="margin: 0;">Behaviour processes in traffic engineering</h2>				
Course id:	S0MI4N					
Number of ECTS:	5					
Teacher:	Papić M. Zoran					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
3	2	0	0	0		
Precondition courses		None				
1. Educational goal: The acquisition of knowledge based on analysis of traffic participants behaviour.						
2. Educational outcomes (acquired knowledge): The application of knowledge in the field of planning, design, and traffic safety.						
3. Course content/structure: Significance analysis of the behavior of traffic participants. Impact behavior of traffic participants in decision-making system. Empirical experiment. Statistical methods. Information basis. Empirical modeling. Application of the results of analyzes of road users in the planning, design, and traffic safety.						
4. Teaching methods: Lectures, consultations, experimental studies, presentations.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes	40.00
Lecture attendance		Yes	5.00	Oral part of the exam	Yes	30.00
Term paper		Yes	20.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	Milošević, S	Saobraćajna psihologija		Naučna knjiga, Beograd	1981	
2,	Milošević, S.	Percepcija saobraćajnih znakova		Saobraćajni fakultet, Beograd	1997	
3,	Koppelman, Bhat, C	A Self Instructing in Mode Choice Modeling: Multinomial and Nested Logit Models		U.S. Department of Transportation, Federal Transit Administration	2006	

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Table 5.2 Course specification

Course:		<h2 style="margin: 0;">Road infrastructure and road safety in urban areas</h2>				
Course id:	S0MI4S					
Number of ECTS:	5					
Teachers:	Jovanović M. Dragan, Kostić I. Svetozar, Renčelj D. Marko					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
3	2	0	0	0		
Precondition courses		None				
1. Educational goal:						
To get knowledge for understanding methods and procedures about traffic infrastructure and traffic safety in urban areas						
2. Educational outcomes (acquired knowledge):						
To understand speciality of traffic areas in urban environments. To get knowledge and applicable skills which are necessary for cooperating in processes of the design, construction and maintenance of the traffic areas in urban environments						
3. Course content/structure:						
<p>Intention of the subject is: recognition the basic elements and principles of the traffic areas in urban environments acquaintance with basic elements for "safe" design of traffic areas in the cities:</p> <ul style="list-style-type: none"> -Issues about traffic in the city / urban areas - from traffic infrastructure point of view -Characteristics of the different types of traffic – motor vehicles, cyclists, pedestrians, public transport - from infrastructure and traffic safety point of view -Functional classification of traffic areas in urban areas -Characteristics of roads and streets in urban areas -Urban intersections and safety: layout in road network, types (roundabouts etc.), elements -Traffic areas for vulnerable users: cyclists, pedestrians, disabled persons -Traffic calming on road sections and in intersections: theory, criteria, types of measures, performance -Safe landscape planning of traffic areas in urban environments -Safe traffic signs and traffic equipment -Sustainable goals for traffic safety in urban areas: understanding and application of "Vision Zero" and "Sustainable safety" to traffic infrastructure in urban areas 						
4. Teaching methods:						
Lectures, auditory, computer and graphical – numerical practice and consultations.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes	40.00
Lecture attendance		Yes	5.00	Oral part of the exam	Yes	30.00
Term paper		Yes	20.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	Mihailo Maletin	Planiranje i projektovanje saobraćajnica u gradovima		Orion ART Beograd	2005	
2,	Kostić Svetozar	Tehnike bezbednosti i kontrole saobraćaja		fakultet tehničkih nauka, Novi Sad	2009	

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Table 5.2 Course specification

Course:		Logistics centers				
Course id:	S0ML4					
Number of ECTS:	5					
Teacher:	Nikoličić S. Svetlana					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
3	2	0	0	0		
Precondition courses		None				
1. Educational goal:						
Acquiring knowledge about the type and structure of logistics processes and logistics centers and also about the advantages of directing flows of material goods to logistics centers.						
2. Educational outcomes (acquired knowledge):						
By completing the course student will be capable to: recognize and define the role and place of various logistics centers; define the structure of services and subsystems of logistics center, with regard to the demands of material goods flow; properly define and structure criterias for location of logistics centers; properly approach on dimensioning and technological design of logistics center.						
3. Course content/structure:						
Basic types and functions of logistic centers. Development goals of logistics centers. Parameters of terminals gravitation zone. The analysis of material goods flow, that flows through the system, by logistics center. Criteria and procedure for location election of micro and macro logistics centers. The subsystem structure of logistics center. Logistics performance. Analysis of the requirements for dimensioning logistics systems. Technology and physical characteristics of the logistics centers. Integrated concept of free zone and logistic center. Examples of existing logistics centers.						
4. Teaching methods:						
Lectures, exercises, consultations, debates, public presentation of term papers. Knowledge check: written and oral examination.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes	40.00
Lecture attendance		Yes	5.00	Oral part of the exam	Yes	30.00
Term paper		Yes	20.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	Slobodan Zečević	Robni terminali i robno-transportni centri		Saobraćajni fakultet, Beograd	2006	
2,	Milosav Georgijević	Tehnička logistika		Zadužbina Andrejević	2011	
3,	Gordana Radivojević, Momčilo Miljuš, Milorad Vidović	Logistički kontroling i performanse		Saobraćajni fakultet, Beograd	2007	



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Traffic and Transport Engineering

Standard 06. Programme Quality, Contemporaneity and International Compliance

The study programme is coordinated with contemporary international scientific trends and state of the professional field and is comparable with similar programmes at higher education institutions abroad, Traffic and Transport study programme is formed in such a way to be complete and comprehensive and provide students with the latest scientific and professional knowledge in this field.

Traffic and Transport study programme is comparable and coordinated with:

1. Fakultet prometnih znanosti, Zagreb, Hrvatska, www.fpz.hr
2. Faculty of Operation and Economic of Transport and Communications, Zilina Slovak Republic, www.fpedas.uniza.sk
3. Faculty of transportation sciences, Department of Transporting Systems, Czech Technical University in Prague, www.fd.cvut.cz
4. Tehnički fakultet Bitola, Makedonija www.tfb.uklo.edu.mk
5. Fakulteta za pomorstvo in promet, studijski program Tehnologija prometa, www.fpp.uni-lj.si



UNIVERSITY OF NOVI SAD

FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Traffic and Transport Engineering

Standard 07. Student Enrollment

The Faculty of Technical Sciences, in accordance with social demands and its resources, enrolls to graduate academic studies of Traffic and Transport on budget funded and self funded studies a certain number of students defined each year by the special decision of the Educational and Scientific Council of the Faculty of Technical Sciences. The selection and enrolment of the applied candidates is based on their achievement during the previous education and entrance examination as defined by the Book of Rules on Enrolment of Students to Study Programmes.

Students from other study programmes and persons who have completed studies can enroll into this study programme. The committee for evaluation (formed by all department heads participating in the realization of the study programme) evaluate all the passed examinations of the candidates and, based on the accepted number of points, determine whether the candidate can be enrolled at the master studies of the chosen module. The previously passed exam activities can be accepted completely, partially (the committee can require a suitable addition) or can be considered inadequate.



UNIVERSITY OF NOVI SAD

FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Traffic and Transport Engineering

Standard 08. Student Evaluation and Progress

The evaluation of students is performed by continual monitoring of students' accomplishments and the points obtained in fulfilling prerequisites and taking examinations.

The students master the study programme by taking examinations and thus obtaining a certain number of ECTS credits, in accordance with the study programme of graduate academic studies in Regional Policies and Development.

Each course at the study programme has a set number of ECTS credits which students obtain on successfully passing the examination. Students' success in mastering a certain course is constantly monitored during classes and is presented in points. Maximum number of points obtained in a course is 100. Students obtain points from a course through their work during classes, fulfilment of their prerequisites and taking the examination. Each course at the study programme has a clear and publicly known mode of obtaining points.

A student's final achievement at a course is presented using grades from 5 (fail) to 10 (excellent). A student's grade is based on the overall number of points obtained on fulfilling prerequisites and taking the examination, and in accordance with the quality of acquired knowledge and skills.

For students to be able to take a course examination, they have to obtain at least 15 points of the overall number of points through pre exam assignments during the semester. Additional requirements for taking the examination are defined separately for every course.

Student advancement during the studies is defined by the Rule book on postgraduate academic studies.

**Study Programme Accreditation**

MASTER ACADEMIC STUDIES

Traffic and Transport Engineering

Standard 09. Teaching Staff

For the realization of the Traffic and Transport study programme, there is the faculty staff with necessary professional and academic qualifications.

The number of teachers meets the needs of the curriculum and is determined by the number of subjects and number of hours of instruction in these subjects. The total number of teachers is sufficient for the realization of total hours of instruction on the academic program, so that they achieve an average of 180 contact hours per year (lectures, consultations, exercises, practical work ...), or on average 6 hours per week. Of the total number of teachers needed, all 100% are in full-time employees at the Faculty of Technical Sciences.

The number of assistant staff meets the needs of the study program. The total number of associates on the study program is sufficient for the realization of the total number of hours of instruction in the program so that the associates achieve an average of 300 contact hours per year or an average of 10 hours per week.

The scientific and professional qualifications of the teaching staff match the educational scientific field, and level of their responsibilities. Each teacher has at least five references from the specific scientific or professional field he/she teaches at the study program.

The size of a group for lectures is up to 180 students, a group for practice classes has 60 students and a group for laboratory practice has up to 20 students.

None of the teachers has more than 12 classes per week. All data on teachers and associates (CV, appointments, references) have been made available to the general public.

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Science, arts and professional qualifications

Name and last name:	Atanasković R. Predrag		
Academic title:	Associate Professor		
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 01.03.2011		
Scientific or art field:	Postal Traffic and Communications		
Academic career	Year	Institution	Field
Academic title election:	2012		Postal Traffic and Communications
PhD thesis	2007	Faculty of Technical Sciences "Mihajlo Pupin" in Zrenjanin - Zrenjanin	Traffic Engineering
Magister thesis	1999	Faculty of Transport and Traffic Engineering - Beograd	Traffic Engineering
Bachelor's thesis	1986	Faculty of Transport and Traffic Engineering - Beograd	Traffic Engineering

List of courses being held by the teacher in the accredited study programmes

	ID	Course name	Study programme name, study type
1.	S01444	Investment Management in Traffic	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
2.	S01551	Fundamentals of air transport.	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
3.	S1443P	Project management	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
4.	S0153Ž	Rail Transport Safety	(S00) Traffic and Transport Engineering, Master Academic Studies
5.	S015ŽS	Railway Lines and Stations	(S00) Traffic and Transport Engineering, Master Academic Studies
6.	LIM22	Logistic Controlling and Benchmarking	(LIM) Logistic Engineering and Management, Master Academic Studies
7.	S0M22	PROJECT MANAGEMENT	(S00) Traffic and Transport Engineering, Master Academic Studies
8.	S0M4	Modelling of Traffic and Transport	(S00) Traffic and Transport Engineering, Master Academic Studies
9.	DSSP5	selected topics in the area of project management and investment management	(S00) Traffic Engineering, Doctoral Academic Studies

Representative references (minimum 5, not more than 10)

1.	Atanasković Predrag, Milić-Marković Ljiljana, Sajfert Zvonko, Nikoličić Svetlana, Djordjević Dragan: "Multicriteria analysis, investment process and optimization in the process of instalation rubber panels at level crossings", TTEM, vol 7, 2011, ISSN 1840-1503, page: 169-179
2.	Radojković Dragiša, Sajfert Zvonko, Vasić Živorad, Atanasković Predrag, Carević Zvonko: „Identification of Knowledge and Skills needed on the Labourt Market“ Metalurgia International, ISSN 1582-2214, 2012, vol 17 br 6, str 192-195
3.	Ljubo Marković, Predrag Atanasković, Ljiljana Milić – Marković, Dragana Sajfert, Milomir Stanković: "Investment decision management: prediction the cost and period of commercial building construction using artificial neural network", TTEM, vol 6, no 4, 2011, ISSN 1840-1503, page: 1301-1313
4.	Dragiša Radojković, Zvonko Sajfert, Janko Cvijanović, Predrag Atanasković, Saša Stanojčić : „Professional orientation in change and vocation structure choice“-;Metalurgia International VOL XVII (2012) NO 3, ISSN 1582-2214, page 155-161
5.	Predrag Atanasković, Svetlana Nikoličić, Strahinja Cvijanović: "Analysis of required investment and benefits using rfid in supply chains", Industrija, ISSN 0350-0373, number 2, volume XXXX, UDK 33, pages 69-79
6.	Sajfert D., Cvijanović S., Atanasković P: „Upravljanje i rukovođenje u osnovnim školama u Srbiji“. Industrija, 2009, vol. 37, br. 4, str. 77-102, 2010 godina, ISSN 0350-0373
7.	P.Atanasković, D.Sajfert, S. Cvijanović: „Istraživanje uloge i zadataka rukovodioca projekta“, INDUSTRIJA - časopis Ekonomskog Instituta – Beograd, ISSN 0350-0373, COBISS . SR.-ID 238359, broj 2/2009, strane 127-139,UDK 005.8:711.7
8.	Predrag Atanasković, Dragan Đorđević, Dragana Sajfert: "Analysis of requirements and the necessary investments in the railway station adjustment program for persons with special needs", Industrija, ISSN 0350-0373, number 2, volume XXXX, UDK 33, pages 191-201
9.	Atanasković Predrag, Sajfert Zvonko, Zeremski Aleksandar, INVESTMENT MANAGEMENT AND SELECTION OF THE RELEVANT PARAMETERS IN THE FIELD OF SAFE TRAFFIC ON LEVEL CROSSING POINTS ", Atanasković, Sajfert, Zeremski, 9th International Conference management Horizons vision and chalanges, Kaunas, Lituania, 2007
10.	P.Atanasković, M.Žarković, Z.Sajfert SYMORG 2008, XI Internacionalni simpozijum – Menadžment i društvena odgovornost, BEOGRAD 2008, Zbornik radova, ISBN 978-86-7680-161-9, „Uloga i zadaci rukovodioca projekta pri upravljanju projektima“,

Summary data for teacher's scientific or art and professional activity:

Quotation total : | 3



UNIVERSITY OF NOVI SAD

FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Traffic and Transport Engineering

Total of SCI(SSCI) list papers :	4			
Current projects :	Domestic :	1	International :	0



Science, arts and professional qualifications

Name and last name:		Bačkalić M. Todor	
Academic title:		Associate Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 05.10.1992	
Scientific or art field:		Transport System Technologies	
Academic carieer	Year	Institution	Field
Academic title election:	2011		Transport System Technologies
PhD thesis	2001	Faculty of Technical Sciences - Novi Sad	Transport System Technologies
Magister thesis	1996	Faculty of Transport and Traffic Engineering - Beograd	Transport System Technologies
Bachelor's thesis	1992	Faculty of Technical Sciences - Novi Sad	Transport System Technologies
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	S0216	Water Transport Technology	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
2.	S0220	Organization of Water Transport	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
3.	S0I4N4	Process management in water transport	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
4.	S0I51V	Waterways and Ports	(S00) Traffic and Transport Engineering, Master Academic Studies (G00) Civil Engineering, Master Academic Studies
5.	S0I52V	Ship design and exploatation of ships	(S00) Traffic and Transport Engineering, Master Academic Studies
6.	S0I53V	Navigation and vessel traffic control	(S00) Traffic and Transport Engineering, Master Academic Studies
7.	LIM25	Transport Technologies II	(LIM) Logistic Engineering and Management, Master Academic Studies
8.	S0MI12	Theory of ship's motion and maneuverability	(S00) Traffic and Transport Engineering, Master Academic Studies
9.	DSSB1	Water transport modelling	(S00) Traffic Engineering, Doctoral Academic Studies
10.	DSSB6	Traffic management on inland waterways	(S00) Traffic Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Tehnologija vodnog saobraćaja deo I - Plovna prevozna sredstva, Edicija - "Tehničke nauke - udžbenici", 2003. (prvo izdanje), 2005. (drugo izdanje), Fakultet tehničkih nauka, Novi Sad		
2.	Eksploataciona svojstva brodskih dizel motora, 2001., Saobraćajni odsek Fakulteta tehničkih nauka, Novi Sad		
3.	Analysis and Reallocation of Relibility of Power-Steering Group on Ships with "Z" Transmission", Proceedings of the First International Conference on Marine Industry "MARIND "96" Volume III pg. 271-279, Varna, Bulgaria, 2-7 June 1996.		
4.	Modeling of Vessel Traffic Process in One-Way Straits at Alternating Passing, The Second International Conference on Marine Industry "MARIND "98", Varna, Bulgaria, September 28-October 2 1998.		
5.	Modelling of Vessel Traffic Process at Controlled Navigation on Artificial Inland Waterways, European Inland Waterway Navigation Conference, Győr, Hungary, 11-13 June, 2003.		
6.	Renewal Process of Power-Steering Group on Motor Cargo Ships of MT-1500 Series, International Conference - Dependability and Quality Management DQM 2004, Belgrade, Serbia, 16-17 June, 2004., Proceedings pg. 120-124		
7.	Fuzzy approach to modelling of the control of the ship locking process, European Inland Waterway Navigation Conference, Szeged, Hungary, 11-13 June, 2005.		
8.	Organizacija saobraćaja na plovnim kanalima u funkciji propusne sposobnosti plovnog puta		
9.	Upravljanje saobraćajem na veštačkim plovnim putevima ograničenih dimenzija u funkciji njihove propusne sposobnosti		
10.	Balkan Arterial Waterway Danube-Morava-Danube, The First International Symposium Macedonian Transport Corridors, Bitola, Macedonia, 1996.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		0	
Current projects :		Domestic :	International :
		2	0

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Science, arts and professional qualifications

Name and last name:		Basarić B. Valentina	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 15.02.2000	
Scientific or art field:		Traffic Systems	
Academic carier	Year	Institution	Field
Academic title election:	2011		Traffic Systems
PhD thesis	2010	Faculty of Technical Sciences - Novi Sad	Traffic Engineering
Magister thesis	2006	Faculty of Technical Sciences - Novi Sad	Traffic Systems
Bachelor's thesis	1999	Faculty of Technical Sciences - Novi Sad	Traffic Systems
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	S0324	Fundamentals in Traffic Planning	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
2.	S0329	Traffic Planning Models	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
3.	S01594	Traffic Forecasts	(S00) Traffic and Transport Engineering, Master Academic Studies
4.	S0MJ4	Planning of Public transport	(S00) Traffic and Transport Engineering, Master Academic Studies
5.	S11591	Traffic Forecasts	(S01) Postal Traffic and Telecommunications, Master Academic Studies
6.	SOP2	Transportation Demand Management	(S00) Traffic and Transport Engineering, Master Academic Studies
7.	DSIM1	Traffic Planning	(S00) Traffic Engineering, Doctoral Academic Studies
8.	DSSK3A	Research and simulation of road traffic flow	(S00) Traffic Engineering, Doctoral Academic Studies
9.	DSSK4	Urban planning and development of transport networks	(S00) Traffic Engineering, Doctoral Academic Studies
10.	DSSK6	Maintainable urban transport systems	(S00) Traffic Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Valentina Basarić "Efekti primene zone 30 na bezbednost saobraćaja u gradovima", Simpozijum "Prevenција saobraćajnih nezgoda na putevima 2006", Novi Sad, Institut za ssaobraćaj Fakulteta tehničkih nauka Novi Sad, oktobar 2006, ISBN 86-7892-008-4, UDK:656.01		
2.	Ratomir Vračarević, Valentina Basarić "Uticaj naplate parkiranja na vidovnu raspodelu radnih putovanja", Tehnika 3-separat saobraćaj 2007, YU ISSN 0040-2176, UDK:625.025.4.033.9=861		
3.	Valentina Basarić "Održiva mobilnost i savremene strategije upravljanja saobraćajem u gradovima", I Savetovanje "Savremene tendencije unapređenja saobraćaja u gradovima" Novi Sad, 18-19 oktobar 2007., ISBN 978-86-7892-083-7, UDK:656.01		
4.	Planiranje saobraćaja-praktikum sa zbirkom zadataka		
5.	Planiranje saobraćaja-praktikum sa zbirkom zadataka		
6.	Ratomir Vračarević, Valentina Basarić "Vidovna raspodela: formalizacija ili strategija", TES 2002, 5.Savetovanje o tehnikama regulisanja saobraćaja, Sombor 2002.		
7.	V.Basarić, "Bezbednost dece u saobraćaju inteziviranjem akcija lokalne uprave i sistema obrazovanja" IX simpozijum sa međunarodnim učešćem 2Prevenција saobraćajnih nezgoda na putevima 2008", Novi Sad, 23 i 24 oktobar 2008, ISBN 978-86-7892-149-0		
8.	Basarić, V., Jović, J., 2011. Target modal split mode, Transport, Print ISSN:1648-4142, Online ISSN:1648-3480		
9.	Model upravljanja raspodelom putovanja na vidove prevoza u funkciji održivog razvoja, Fakultet tehničkih nauka Novi Sad, 2010		
10.	Uticaj sistema parkiranja na raspodelu putovanja po vidovima saobraćaja, Fakultet tehničkih nauka Novi Sad, 2006		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		0	
Current projects :		Domestic :	1
		International :	0

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Science, arts and professional qualifications

Name and last name:	Bogdanović Z. Vuk		
Academic title:	Associate Professor		
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 01.02.1993		
Scientific or art field:	Traffic Planning, Regulation and Safety		
Academic career	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Traffic Planning, Regulation and Safety
PhD thesis	2005	Faculty of Technical Sciences - Novi Sad	Traffic Systems
Magister thesis	1998	Faculty of Technical Sciences - Novi Sad	Traffic Systems
Bachelor's thesis	1991	Faculty of Technical Sciences - Novi Sad	Traffic Systems

List of courses being held by the teacher in the accredited study programmes

	ID	Course name	Study programme name, study type
1.	S0432	Traffic Flow Theory	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (G00) Civil Engineering, Undergraduate Academic Studies
2.	S0434	Traffic Regulation and Control	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
3.	S0439	Road Capacity	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
4.	S051	Traffic Design	(S00) Traffic and Transport Engineering, Master Academic Studies
5.	S01592	Project Evaluation	(S00) Traffic and Transport Engineering, Master Academic Studies
6.	SOP2	Transportation Demand Management	(S00) Traffic and Transport Engineering, Master Academic Studies
7.	DSIM4	Methods in Traffic Infrastructure Management	(S00) Traffic Engineering, Doctoral Academic Studies
8.	DSSK3A	Research and simulation of road traffic flow	(S00) Traffic Engineering, Doctoral Academic Studies
9.	DSSK4	Urban planning and development of transport networks	(S00) Traffic Engineering, Doctoral Academic Studies
10.	DSSK6	Maintainable urban transport systems	(S00) Traffic Engineering, Doctoral Academic Studies

Representative references (minimum 5, not more than 10)

1.	Teorija saobraćajnog toka, Fakultet tehničkih nauka, Novi Sad, 2004.
2.	Kapacitet putnih i uličnih ukrštanja-prioritetne raskrsnice (novi koncept), Fakultet tehničkih nauka, Novi Sad, 2002
3.	Prilog proučavanju kapaciteta i nivoa usluge na trokrakim i kružnim prioritetnim raskrsnicama po novom konceptu
4.	Prilog definisanju relevantnih parametara saobraćajnog toka za potrebe vrednovanja rekonstrukcije signalisanih raskrsnica
5.	Tanackov I., Bogdanović V., Tepić J., Sremac S., Ruškić N.: The Application of Artificial Intelligence Hybrid in Traffic Flow, Heidelberg, Springer, Heidelberg, 2011, str. 83-90, ISBN 0302-9743, UDK: 978-3-642-21219-2_12
6.	Bogdanović V., Milutinović N., Kostić S., Ruškić N.: Research of the Influences of Input Parameters on the Result of Vehicles Collisions Simulation, Promet - Traffic
7.	Bogdanović V., Dadić I., Papić Z., Ruškić N.: Procedure for Safe Distance Determination for Minor Movement Accomplishing at Unsignalized Intersections, Promet - Traffic
8.	Papić Z., Bogdanović V., Raković M.: Analyze of Changes in Exterior Dimensions of Cars During Collison with Fixed Barriers, Mobility
9.	Bogdanović V., Papić Z., Ruškić N., Jeftić A.: Vehicle Speed Characteristics at Signalized Intersections Approaches, Suvremeni promet, 2011, Vol. 31, No 3-4, pp. 196-200, ISSN 0351-1898
10.	Bogdanović V., Papić Z., Ruškić N., Basarić V., Jusufrić J.: Analysis of Traffic Conditions Influence on Capacity of Unsignalized Intersection Approach, Suvremeni promet, 2011, Vol. 31, No 3-4, pp. 257-262, ISSN 0351-1898

Summary data for teacher's scientific or art and professional activity:

Quotation total :	0		
Total of SCI(SSCI) list papers :	4		
Current projects :	Domestic :	1	International : 0



Science, arts and professional qualifications

Name and last name:	Bukurov Ž. Maša		
Academic title:	Assistant Professor		
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 01.11.1993		
Scientific or art field:	Applied Fluid Mechanics - Hydro Pneumatic Technics		
Academic carieer	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Applied Fluid Mechanics - Hydro Pneumatic Technics
PhD thesis	2004	Faculty of Technical Sciences - Novi Sad	Mechanical Engineering
Magister thesis	1998	University of Novi Sad - Novi Sad	Environment Protection Engineering
Bachelor's thesis	1993	Faculty of Technical Sciences - Novi Sad	Mechanical Engineering

List of courses being held by the teacher in the accredited study programmes

ID	Course name	Study programme name, study type
1. M205	Fundamentals of Fluid Mechanics	(Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
2. M205L	Fundamentals in Fluid Mechanics	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
3. M212	Fluid Mechanics 1	(M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
4. M3301	Pumping and Compression Stations	(M30) Energy and Process Engineering, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies
5. M3306	Devices for Mechanical Purification	(M30) Energy and Process Engineering, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies
6. M3403	Fluid Machines	(M30) Energy and Process Engineering, Undergraduate Academic Studies
7. M3453	Measurement of fluid properties	(M30) Energy and Process Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
8. URZP14	Fundamentals of Mechanical Engineering	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
9. M3203	Technology of machinery	(M30) Energy and Process Engineering, Undergraduate Academic Studies
10. M3401	Fluid Mechanics 2	(M30) Energy and Process Engineering, Undergraduate Academic Studies
11. M3496	Pipeline Transportation	(M30) Energy and Process Engineering, Undergraduate Academic Studies
12. M3553	Pipe Networks Modelling	(M30) Energy and Process Engineering, Master Academic Studies
13. M3513	Computational Fluid Dynamics	(M30) Energy and Process Engineering, Master Academic Studies
14. S0MI12	Theory of ship's motion and maneuverability	(S00) Traffic and Transport Engineering, Master Academic Studies



UNIVERSITY OF NOVI SAD

FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6

**Study Programme Accreditation**

MASTER ACADEMIC STUDIES

Traffic and Transport Engineering

Representative references (minimum 5, not more than 10)

1.	M. Milankov, Maša Bukurov, A. Jovanović, T. Somer, EXPERIMENTAL STUDY OF THE HYDRODYNAMIC EFFECTS OF IRRIGATION SUCTION DRAINAGE, Arch Orthop Trauma Surg 116 (4), p. 299-304, 1997.
2.	Maša Bukurov, Ž Bukurov, M. Lekić, D. Stojković, TRANSPORTATION BY RIVER IN FUNCTION OF ECO PROTECTION AND MORE EFFICIENT USAGE OF WATER WAYS, First European Inland Waterway Navigation Conference, Balatonfured, Jun, 9-11, 1999.
3.	Maša Bukurov, S. Tašin, B. Todorović, EFFICIENCY RATE OF STEAM-WATER INJECTOR FOR HOT WATER TRANSPORTATION, Proceedings of PSU-UNS International Conference 2003 "ENERGY AND ENVIRONMENT" Thailand, Dec. 2003, PSUUNS 03021, p.126-129
4.	Maša Bukurov, S. Bikić, B. Todorović, S. Tašin, TRANSFORMATION OF STEAM ENERGY IN JET PUMP – EFFICIENCY RATE, 25th Yugoslav Congress on Theoretical and Applied Mechanics, Novi Sad, Jun, 2005
5.	M. Effenberger, A. Gronauer, Maša Bukurov, CONTRIBUTION TO ENVIRONMENTAL PROTECTION BY USAGE OF BIOGAS, Journal on Processing and Energy in Agriculture, 1450-5029 (2004) 8, 3-4, p.69-71
6.	Maša Bukurov, ENERGETSKO-EKOLOŠKO POBOLJŠANJE LINIJE ZA PROIZVODNJU KLINKERA SUVIM POSTUPKOM U FABRICI CEMENTA, magistarski rad, Univerzitet u Novom sadu, Centar za interdisciplinarne i multidisciplinarne studije inženjerstva zaštite životne sredine, 1998.
7.	Siniša Bikić, Maša Bukurov, IMPORTANCE OF OPEN CHANNEL CALIBRATION IN FLOW RATE MEASURING, Scintific conference 2, 2006, Rousse. (proceedings, volume 45, book 1, ISSN 1311-3321)
8.	Ž. Bukurov, Maša Bukurov, B. Todorović, S. Bikić, ZAKONITOSTI TRANSFORMACIONOG PROCESA ENERGIJE PARE U ENERGIJU PRITISKA KROZ PARO-VODENU MLAZNU PUMPU, Industrijska energetika 2004, Lepenski vir, oktobar 2004
9.	Maša Bukurov, Istraživanje svojstava nadyvučnog paro-vodenog injektora, doktorska disertacija, Fakultet tehničkih nauka, Novi Sad, 2004.
10.	38. Ž. Bukurov, Maša Bukurov, B. Todorović, S. Bikić, PODLOGE ZA ISTRAŽIVANJE ENERGIJSKO-STRUJNIH KARAKTERISTIKA U NADZVUČNOJ KOMORI ZA MEŠANJE PARO-VODENE MLAZNE PUMPE, Industrijska energetika 2004, Lepenski vir, oktobar 2004
Summary data for teacher's scientific or art and professional activity:	
Quotation total :	0
Total of SCI(SSCI) list papers :	0
Current projects :	Domestic : 0 International : 0

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Science, arts and professional qualifications

Name and last name:	Gladović V. Pavle		
Academic title:	Full Professor		
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 15.02.2000		
Scientific or art field:	Transport System Technologies		
Academic career	Year	Institution	Field
Academic title election:	2005	Faculty of Technical Sciences - Novi Sad	Transport System Technologies
PhD thesis	1994	Faculty of Transport and Traffic Engineering - Beograd	Transport System Technologies
Magister thesis	1986	Faculty of Transport and Traffic Engineering - Beograd	Transport System Technologies
Bachelor's thesis	1975	Faculty of Transport and Traffic Engineering - Beograd	Transport System Technologies

List of courses being held by the teacher in the accredited study programmes

	ID	Course name	Study programme name, study type
1.	S0322	Road Traffic Technology	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
2.	S0327	Organization of Road Traffic	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
3.	S01593	System of Public Transportation of Goods	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
4.	S01591	Quality System in Road Transport	(S00) Traffic and Transport Engineering, Master Academic Studies
5.	LIM10	Transport Technologies I	(LIM) Logistic Engineering and Management, Master Academic Studies
6.	S0MJ1	Informacioni sistemi u drumskom transportu	(S00) Traffic and Transport Engineering, Master Academic Studies
7.	S0MJ4	Planning of Public transport	(S00) Traffic and Transport Engineering, Master Academic Studies
8.	SDI6	Optimization of the Goods Transportation Process	(OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies
9.	SDI7	Passenger Transport Process Optimization	(S00) Traffic Engineering, Doctoral Academic Studies
10.	DSSK6	Maintainable urban transport systems	(S00) Traffic Engineering, Doctoral Academic Studies

Representative references (minimum 5, not more than 10)

1.	Pavle Gladović, Tehnologija drumskog saobraćaja, FTN, Novi Sad 2003
2.	Pavle Gladović, Zbirka rešenih zadataka iz tehnologije drumskog transporta, Izdavačko preduzeće PC Program, d.o.o., Beograd 2000
3.	Pavle Gladović, Milan Simeunović, Sistemi javnog autotransporta robe, FTN, Novi Sad 2004
4.	Pavle Gladović, Tarifna politika u javnom gradskom putničkom prevozu, Izdavačko preduzeće PC Program, d.o.o., Beograd 1995
5.	Pavle Gladović, Stanislav Glumac, Srećko Žeželj, Srećko Nijemčević, Projektovanje, proizvodnja i eksploatacija autobusa, IKARBUS a.d. Beograd 2002
6.	Pavle Gladović, Nebojša Bojović, Milomir Veselinović, Nova logistika u oblasti javnog gradskog putničkog prevoza u jugoslovenskim gradovima, Tehnika 5, 1999. god. str. 218-223
7.	Pavle Gladović, Milorad Eskić, Milan Simeunović, Geometrijski model upravljanja procesom preventivnog održavanja fuzzy logikom, Tenika 4-5, 2003. god. str.7-17
8.	Pavle Gladović, Milica Miličić, Milan Simeunović, Kvalitet usluge u drumskom transportu, Tehnika 3, 2004, str. 113-120
9.	P. Gladović, N. J. Bojović, A methodology for introducing new types of tickets in an urban public transport network, International Journal of Transport Economics, Vol. XXVII-No. 3, str. 381-399, Roma october 2000
10.	Pavle Gladović, Mileta Goršić, Drago Tošić, Troškovni model linija sa kategorizacijom linija u sistemu javnog masovnog transporta putnika, Novi Sad 2007. god.

Summary data for teacher's scientific or art and professional activity:

Quotation total : | 3



UNIVERSITY OF NOVI SAD

FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Traffic and Transport Engineering

Total of SCI(SSCI) list papers :	15			
Current projects :	Domestic :	2	International :	0

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Science, arts and professional qualifications



Name and last name:	Grabić U. Stevan		
Academic title:	Assistant Professor		
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 10.10.1997		
Scientific or art field:	Power Electronics, Machines and Facilities		
Academic career	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Power Electronics, Machines and Facilities
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Power Electronics, Machines and Facilities
Magister thesis	2004	Faculty of Technical Sciences - Novi Sad	Power Electronics, Machines and Facilities
Bachelor's thesis	1997	Faculty of Technical Sciences - Novi Sad	Power Electronics, Machines and Facilities

List of courses being held by the teacher in the accredited study programmes

	ID	Course name	Study programme name, study type
1.	EE305	Power Electronics 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EE425	Energy Converter Control	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	EE520	Design of Electrical Machines and Converters	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	EM434	Power Electronics	(H00) Mechatronics, Undergraduate Academic Studies
5.	EOS08	Electrical machines and devices	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
6.	EOS12	Power electronics	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
7.	EOS17	Software tool in power electronics	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
8.	EOS23	Wind Energy Conversion System	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
9.	EOS32	Grid connected renewable energy systems	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
10.	Z107	Electrical Engineering, Environment and Protection	(Z01) Safety at Work, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
11.	EE0406	Electric Power Quality	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
12.	EE406	Electric Power Quality	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
13.	EE520	Design of Electrical Machines and Converters	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
14.	M2551	Hybrid and electric vehicles	(M22) Mechanization and Construction Engineering, Master Academic Studies
15.	M2552	Automotive electrics	(M22) Mechanization and Construction Engineering, Master Academic Studies
16.	S0151Ž	Electrical Substation and Electric Traction	(S00) Traffic and Transport Engineering, Master Academic Studies
17.	SI011	Wind, solar and small hydro power plants	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
18.	SI041	Grid connected renewable energy systems	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
19.	EE544	Renewable energy sources	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies

Representative references (minimum 5, not more than 10)

1.	S.Grabić, N.Čelanović, V.Katić: Series Converter Stabilized Wind Turbine with Permanent Magnet Synchronous Generator, 35th IEEE Power Electronics Specialists Conference PESC 2004, Aachen (Germany), pp. 464-468.
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	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering		
Representative references (minimum 5, not more than 10)			
2.	M.Vekić, Z.Ivanović, S.Grabić, V.Katić: Control of Variable Speed Wind Turbine Under Grid Disturbances, 13th International Symposium on Power Electronics - Ee2005, Novi Sad, no.T7-1.1.		
3.	Z.Ivanović, M.Vekić, S.Grabić, V.Katić: Control of Multilevel Converter Driving Variable Speed Wind Turbine in Case of Grid Disturbances, 12th International Power Electronics and Motion Control Conference EPE-PEMC 2006, Portoroz (Slovenija), pp. 1569-1573.		
4.	E.Adzić, S.Grabić, V.Katić: Analysis and Control Design of STATCOM in Distribution Network Voltage Control Mode, VIth International Symposium Nikola Tesla, 2006, Beograd, 135-138.		
5.	M.Milošević, G.Andersson, S.Grabić: Decoupling Current Control and Maximum Power Point Control in Small Power Network with Photovoltaic Source, Power Systems Conference and Exhibition PSCE 2006, no.10.5, pp.1005-1011.		
6.	V.Katić, Z.Čorba, D.Milićević, S.Grabić, Z.Ivanović, M.Vekić, E.Adzić, B.Dumnić: Modeling of Wind and Solar Electric Power Sources for Application in Vojvodina, PSU-UNS International Conference on Engineering and Environment - ICEE 2007, Phuket (Thailand).		
7.	Z.Ivanović, M.Vekić, S.Grabić, V.Katić: Modelovanje i analiza rada mrežnog invertora u slučaju nesimetrije u sistemu, 50. konferencija ETRAN, Beograd, jun 2006, str.344-347		
8.	Ivanović Z., Adzić E., Vekić M., Grabić S., Čelanović N., Katić V.: HIL Evaluation of Power Flow Control Strategies for Energy Storage Connected to Smart Grid Under Unbalanced Conditions, Available: 10.1109/TPEL.2012.2184772, IEEE Transaction on Power Electronics, 2012, Vol. 27, ISSN 0885-8993		
9.	Vekić M., Grabić S., Majstorović D., Čelanović I., Čelanović N., Katić V.: Ultra Low Latency HIL based Rapid Development of Complex Power Electronics Systems, IEEE Transaction on Power Electronics, 2012, ISSN 0885-8993		
10.	Grabić S., Čelanović N., Katić V.: Permanent Magnet Synchronous Generator Cascade for Wind Turbine Application, IEEE Transaction on Power Electronics, 2008, Vol. 23, No 3, pp. 1136-1142, ISSN 0885-8993		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		36	
Total of SCI(SSCI) list papers :		4	
Current projects :		Domestic : 2	International : 0

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Science, arts and professional qualifications

Name and last name:		Gušavac J. Strahil	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 01.10.1992	
Scientific or art field:		Electroenergetics	
Academic career	Year	Institution	Field
Academic title election:	2011	Faculty of Technical Sciences - Novi Sad	Electroenergetics
PhD thesis	2011	School of Electrical Engineering - Beograd	Electroenergetics
Magister thesis	1999	School of Electrical Engineering - Beograd	Electroenergetics
Bachelor's thesis	1988	Faculty of Technical Sciences - Novi Sad	Electroenergetics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EE305	Power Electronics 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EE407	Electrical Installations and Industrial Power Engineering	(E00) Power Software Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	EE425	Energy Converter Control	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	EOS08	Electrical machines and devices	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
5.	S0I51Ž	Electrical Substation and Electric Traction	(S00) Traffic and Transport Engineering, Master Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Tehnička analiza eksploatacione pouzdanosti elektroenergetskih postoejenja industrije cementa		
2.	Razvoj metodologije za efikasno održavanje nadzemnih vodova uz uvažavanje pouzdanosti		
3.	S. Gušavac, M. Nimrihter, Lj. Gerić : Estimation of overhead line condition, Electric Power Systems Research 78 (2008) 566–583., ISSN 0378-7796.		
4.	Lj. Gerić, S. Gušavac : Analysis of Electric Power Consumption and Possibilities of Load Management in the Cement Factory of Beočin, Monograph : Contemporary Problems in Power Engineering, Edited by D. Gvozdenac, J. Xypteras and M. Dimić, Faculty of Tehnical Sciences - Novi Sad (Yugoslavia) and Aristotel University - Thessaloniki (Greece), 1995., pp. 133-141. ISSN 0354-8449, 621.3(082).		
5.	Lj. Gerić, P. Đapić, S. Gušavac : Direct Load Control in Residential Sector of Electrical Power System, Monograph : Contemporary Problems in Power Engineering, Edited by D. Gvozdenac, J. Xypteras and M. Dimić, Faculty of Tehnical Sciences - Novi Sad (Yugoslavia) and Aristotel University - Thessaloniki (Greece), 1995., pp. 237-250. . ISSN 0354-8449, 621.3(082).		
6.	S. Gušavac, S. Đukić, J. Lukić i Lj. Krička : Ocena stanja temelja i stubova nadzemnog voda, , Elektroprivreda, broj 1, 2008, ISSN 0013-5755, UDC 620.9, Beograd, strane 82-95, UDK: 624.153.542.2, 621.315		
7.	Lj. Gerić, P. Đapić, S. Gušavac, M. Nimrihter : Direktna kontrola opterećenja u konzumu široke potrošenje, Monografija "Savremeni aspekti elektroenergetike", uredio V. Katić, Fakultet tehničkih nauka - Institut za energetiku i elektroniku, Novi Sad, 1995, str. 67-85., 621.31(082)		
8.	S. Gušavac, M. Nimrihter, Ž. Savanović, D. Melović, : Sophisticated Estimation of Damages Due to Outage Costs in Industry, by Method of Tehnological Process Simulation, 2003 IEEE Bologna Power Tech Conference, June 23th-26th, Bologna, Italy, paper 399.		
9.	S. Gušavac, M. Nimrihter, S. Novaković, Ž. Savanović: Overhead Lines Maintenance Information System, Colloquium on Overhead Lines Revitalization, Beograd, May 06-10,2003, paper R3-01. ISBN 86-82317-46-X, 621.316.1(082)		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		1	
Current projects :		Domestic :	1
		International :	0

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Science, arts and professional qualifications

Name and last name:	Jovanović M. Dragan		
Academic title:	Associate Professor		
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 15.12.1998		
Scientific or art field:	Traffic Systems		
Academic career	Year	Institution	Field
Academic title election:	2011	Faculty of Technical Sciences - Novi Sad	Traffic Systems
PhD thesis	2005	Faculty of Technical Sciences - Novi Sad	Traffic Systems
Magister thesis	2003	Faculty of Technical Sciences - Novi Sad	Traffic Systems
Bachelor's thesis	1998	Faculty of Technical Sciences - Novi Sad	Traffic Systems

List of courses being held by the teacher in the accredited study programmes

	ID	Course name	Study programme name, study type
1.	S0214	Regulations in the Field of Traffic	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
2.	S0331	Traffic Safety	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
3.	ZRI422	Safety and security at work in the field of traffic engineering	(Z01) Safety at Work, Undergraduate Academic Studies
4.	S052	Prevention of Accidents	(S00) Traffic and Transport Engineering, Master Academic Studies
5.	S015B	Traffic Safety Measures	(S00) Traffic and Transport Engineering, Master Academic Studies
6.	S0MI4S	Road infrastructure and road safety in urban areas	(S00) Traffic and Transport Engineering, Master Academic Studies
7.	SDI23	Traffic Safety Management	(S00) Traffic Engineering, Doctoral Academic Studies
8.	SDI24	Road Safety Measures	(S00) Traffic Engineering, Doctoral Academic Studies
9.	DSSB2	Behavioural models in traffic safety	(S00) Traffic Engineering, Doctoral Academic Studies
10.	ZRD235	Systemic regulation in the field of occupational safety and health	(Z01) Safety at Work, Doctoral Academic Studies
11.	ZRD239	State and tendencies of health and safety at work in the field of traffic engineering	(Z01) Safety at Work, Doctoral Academic Studies
12.	ZRDI7	Izborni predmed 5D	(Z01) Safety at Work, Doctoral Academic Studies

Representative references (minimum 5, not more than 10)

1.	Jovanović D., Bačkalić T., Bašić S.: The application of reliability models in traffic accident frequency analysis, Safety Science, 2011, Vol. 49, No 8-9, pp. 1246-1251, ISSN 0925-7535
2.	Jovanović D., Lipovac K., Stanojević P., Stanojević D.: The effects of personality traits on driving-related anger and aggressive behaviour in traffic among Serbian drivers, Transportation Research Part F - Traffic Psychology and Behaviour, 2011, Vol. 14, No 1, pp. 43-53, ISSN 1369-8478
3.	Antić B., Vujanović M., Jovanović D., Pešić D.: Impact of the new road traffic safety law on the number of traffic casualties in Serbia, Scientific Research and Essays, 2011, Vol. 6, No 29, pp. 6176-6184, ISSN 1992-2248
4.	Jovanović D., Stanojević P., Stanojević D.: Motives for, and attitudes about, driving-related anger and aggressive driving, Social Behavior and Personality: An International Journal, 2011, Vol. 39, No 6, pp. 755-764, ISSN 0301-2212
5.	Jevtić V., Vujanović M., Lipovac K., Jovanović D., Stanojević P.: The influence of motives on risky behavior in traffic: Comparison between motorcyclists and passenger car drivers, Scientific Research and Essays, 2012, Vol. 7, No 10, pp. 1134-1140, ISSN 1992-2248
6.	Jovanović D., Bašić S.: Role of ITS in Managing Traffic Safety in The Road Transportation, 17. Eletronics in Traffic, Ljubljana: Electrotechnical of Association of Slovenia, 23 Mart, 2009, ISBN 978-961-6187-42-8, UDK: 656:004.8
7.	Bašić S., Bačkalić T., Jovanović D.: Temporal and time series forecasting as a tool for traffic safety analysis, 10. Međunarodni simpozijum Prevencija saobraćajnih nezgoda na putevima, Novi Sad: Fakultet tehničkih nauka, 21-22 Oktobar, 2010, pp. 174-182, ISBN 978-86-7892-279-4
8.	Jovanović D., Bašić S., Mitrović J.: Program for advancement children safety in traffic, 1. Regional south-eastern Europe Conference on safe Community, Novi Sad, 23-24 April, 2009, pp. 111-114, ISBN 978-86-87497-02-3
9.	Jovanović D., Stanojević P.: Safety of children in road traffic, 1. Regional south-eastern Europe Conference on safe Community, Novi Sad, 23-24 April, 2009, pp. 104-110, ISBN 978-86-87497-02-3
10.	Lipovac K., Jovanović D., Nešić M., Jovanović D.: Database of Black Spots on Main Roads in Serbia, 4. IRTAD Conference, Seoul, 16-17 September, 2009, pp. 382-392

Summary data for teacher's scientific or art and professional activity:

Quotation total : | 0



UNIVERSITY OF NOVI SAD
FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6



Study Programme Accreditation
MASTER ACADEMIC STUDIES Traffic and Transport Engineering

Total of SCI(SSCI) list papers :	5			
Current projects :	Domestic :	1	International :	1

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Science, arts and professional qualifications

Name and last name:	Katić A. Vladimir		
Academic title:	Full Professor		
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 01.10.1978		
Scientific or art field:	Power Electronics, Machines and Facilities		
Academic career	Year	Institution	Field
Academic title election:	2002	Faculty of Technical Sciences - Novi Sad	Power Electronics, Machines and Facilities
PhD thesis	1991	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
Magister thesis	1981	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
Bachelor's thesis	1978	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering

List of courses being held by the teacher in the accredited study programmes

	ID	Course name	Study programme name, study type
1.	EE305	Power Electronics 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EE308	Power Electronics 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	Z107	Electrical Engineering, Environment and Protection	(Z01) Safety at Work, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
4.	EE0406	Electric Power Quality	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EE431	Renewable Sources and Small Power Plants	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	EZ300	Clean Electrical Energy Sources	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
7.	EZ400	Clean Energy Sources Design	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
8.	DE209S	Energy Converters in Renewable Energy Sources	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
9.	DE413S	Integration of Distributed Energy Resources	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
10.	DE505S	Power Quality in Distribution Networks	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
11.	DE506S	Renewable Electrical Energy Sources	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
12.	DE509S	Effects of Power Converters on Network and Environment	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
13.	EE406	Electric Power Quality	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
14.	EE509	Market and Deregulation in Electric Power Industry	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
15.	S0I51Ž	Electrical Substation and Electric Traction	(S00) Traffic and Transport Engineering, Master Academic Studies
16.	EE544	Renewable energy sources	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
17.	EE564	Distributed Energy Resources	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
18.	ZCM02	Clean technologies for electrical vehicles	(ZC0) Clean Energy Technologies, Master Academic Studies
19.	ZCM08	Renewable and Distributed Electrical Energy Sources	(ZC0) Clean Energy Technologies, Master Academic Studies
20.	DE108	FACTS Devices and Electric Power Quality	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
21.	DE113	Application of Power Electronics in Power Systems	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
22.	DE209	Energy Converters in Renewable Power Sources	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Traffic and Transport Engineering

List of courses being held by the teacher in the accredited study programmes

ID	Course name	Study programme name, study type	
23.	DE413	Integration of Distributed Energy Resources	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
24.	DE505	Power Quality in Distribution Networks	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
25.	DE506	Renewable Electrical Energy Sources	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
26.	DE509	Effects of Power Converters on Network and Environment	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
27.	SID04	Current State in the Field	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (G10) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies
28.	MSID04	Present State in the Field	(M40) Technical Mechanics, Doctoral Academic Studies
29.	SID04	Present State in the Field	(A00) Architecture, Doctoral Academic Studies (AS0) Scenic Design, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies

Representative references (minimum 5, not more than 10)

1.	Vladimir Katić: "Kvalitet električne energije – viši harmonici", Univerzitet u Novom Sadu - Fakultet tehničkih nauka, Edicija Tehničke nauke - Monografije, Br. 6, Novi Sad, 2002., ISBN 86-80249-57-2.
2.	Vladimir Katić: "Energetska elektronika - Zbirka rešenih zadataka", Univerzitet u Novom Sadu-Fakultet tehničkih nauka, Edicija Univerzitetski udžbenik, Broj 66, Novi Sad, 1998, tiraž 500 primeraka, strana 430, Pomoćni udžbenik, ISBN 86-499-0017-8.
3.	Vladimir Katić, Darko Marčetić, Dušan Graovac: "Energetska elektronika – Praktikum laboratorijskih vežbi", Univerzitet u Novom Sadu-Fakultet tehničkih nauka, Edicija Univerzitetski udžbenik, Broj 124, Novi Sad, 2000, tiraž 300 primeraka, strana 85, Pomoćni udžbenik, ISBN 86-499-0081-X.
4.	Vladimir Katić, Vlado Porobić, Darko Marčetić: "Primena mikroprocesora u energetici – Praktikum laboratorijskih vežbi", Univerzitet u Novom Sadu-Fakultet tehničkih nauka, Edicija: Tehničke nauke - Udžbenici, Broj 149, Novi Sad, Dec. 2006, tiraž 300 primeraka, strana 122, Pomoćni udžbenik, ISBN 86-7892-013-0.
5.	Vladimir Katić: „Upravljanje energetskim pretvaračima“, Fakultet tehničkih nauka – WUS, Novi Sad, 2006, tiraž 20 primeraka, str.175, Skripta.
6.	Dušan Graovac, Vladimir Katić, Alfred Rufer: "Power Quality Problems Compensation with Universal Power Quality Conditioning System", IEEE Transaction on Power Delivery, USA, ISSN 0885-8977, Vol.22, No.2, April 2007, pp.968-976.
7.	Vladimir Katić, Jovan Knežević, Dušan Graovac: "Application-Oriented Comparison of the Methods for AC/DC Converter Harmonics Analysis", IEEE Transaction on Industrial Electronics, USA, ISSN 0278-0046, Vol.50, No.6, December 2003, pp.1100-1108.
8.	Vladimir Katić, Dušan Graovac: "A Method for PWM Rectifier Line Side Filter Optimization in Transient and Steady States", IEEE Transaction on Power Electronics, USA, ISSN 0885-8993, Vol.17, No.3, May 2002, pp.342-352.
9.	Dušan Graovac, Vladimir Katić: "On-Line Control Of Current Source Type Active Rectifier Using Transfer Function Approach", IEEE Transaction on Industrial Electronics, USA, ISSN 0278-0046, Vol.48, No.3, June 2001, pp.526-535.
10.	Vladimir Katić: "Modern Power Electronics Technologies for Wind Power Plants", Invited Paper, Electronics/Elektronika, Banja Luka (BIH-R.Srpska), Vol.10, No.2, Dec.2006, YU ISSN 1450-5843, pp.3-9.

Summary data for teacher's scientific or art and professional activity:

Quotation total :	122
Total of SCI(SSCI) list papers :	19



UNIVERSITY OF NOVI SAD
FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Traffic and Transport Engineering

Current projects :	Domestic :	5	International :	1
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	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Science, arts and professional qualifications

Name and last name:		Kostić I. Svetozar	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 01.10.1992	
Scientific or art field:		Traffic Systems	
Academic career	Year	Institution	Field
Academic title election:	2003	Faculty of Technical Sciences - Novi Sad	Traffic Systems
PhD thesis	1989	Faculty of Transport and Traffic Engineering - Beograd	Traffic Engineering
Magister thesis	1983	Faculty of Transport and Traffic Engineering - Beograd	Traffic Engineering
Bachelor's thesis	1973	Faculty of Transport and Traffic Engineering - Beograd	Traffic Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	S0433	Traffic Accidents Expertise	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
2.	S0435	Parking and Public Parking Garages	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
3.	S0438	Traffic Safety and Control Methods	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
4.	S0440	Traffic Terminal Servers	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
5.	S0I53Ž	Rail Transport Safety	(S00) Traffic and Transport Engineering, Master Academic Studies
6.	S0MI4S	Road infrastructure and road safety in urban areas	(S00) Traffic and Transport Engineering, Master Academic Studies
7.	DSSK6S	Sustainable safe road design	(G00) Civil Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Saobracajna tehnika I - Tehnika bezbednosti i kontrole saobracaja, Udzbenik, FTN Univerziteta u Novom Sadu, 1998.		
2.	Tehnika bezbednosti i kontrole saobracaja, Udzbenik, II izmenjeno i dopunj.izdanje, FTN u Novom Sadu, 2005.		
3.	Brzina kao faktor bezbednosti drumskog saobracaja, Monografija, FTN u Novom Sadu i EP Komerc Beograd 1994.		
4.	Saobracajno tehnicko vestacenje - osnovni pojmovi, definicije i merne jedinice, prirucnik, Savez inzenjera i tehnicara Srbije, Beograd 1996.		
5.	Aplication of Marquard equations in vehicle crash expertise, "MOTAUTO 01", Proceeding Vol.II, Varna 2001.		
6.	Tehnicko regulisanje saobracaja i problemi parkiranja u gradovima Srbije, Savetovanje o kontroli i upravljanju saobracaja, SDIT Beograd 1992.		
7.	Visespratna garaza - dvostruka spirala-,zasticen patent, YU PAT-63/97, Savezni zavod za intelektualnu svojinu, Beograd 1997.		
8.	Zahtevi strukturnih karakteristika automobila sa aspekta zaštite putnika prilikom sudara, XII Međunarodni skup, Motorna vozila i motori, Kragujevac 2002.		
9.	Rekonstrukcije specifičnih sudara vozila primenom programskog paketa PC CRASH, Savetovanje na temu Saobraćajne nezgode, Zlatibor, 2007.		
10.	Naučno stručni pristup formiranju nalaza i mišljenja veštaka", Savetovanje na temu Saobraćajne nezgode, Zlatibor, 2007.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		2	
Current projects :		Domestic :	2
		International :	0

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Science, arts and professional qualifications

Name and last name:	Miličić S. Milica		
Academic title:	Assistant Professor		
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 01.10.1993		
Scientific or art field:	Transport System Technologies		
Academic career	Year	Institution	Field
Academic title election:	2011	Faculty of Technical Sciences - Novi Sad	Transport System Technologies
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Transport System Technologies
Magister thesis	2001	Faculty of Technical Sciences - Novi Sad	Transport System Technologies
Bachelor's thesis	1992	Faculty of Technical Sciences - Novi Sad	Traffic Systems

List of courses being held by the teacher in the accredited study programmes

	ID	Course name	Study programme name, study type
1.	S0322	Road Traffic Technology	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
2.	S01593	System of Public Transportation of Goods	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
3.	URZP36	Risks in Manipulating Hazardous Substances	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
4.	S01551	Fundamentals of air transport.	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
5.	S016N2	The organization and management of transport enterprises	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
6.	SO16N	Introduction to traffic	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
7.	S0153Ž	Rail Transport Safety	(S00) Traffic and Transport Engineering, Master Academic Studies
8.	S015ŽS	Railway Lines and Stations	(S00) Traffic and Transport Engineering, Master Academic Studies
9.	LIM10	Transport Technologies I	(LIM) Logistic Engineering and Management, Master Academic Studies
10.	S0M4	Modelling of Traffic and Transport	(S00) Traffic and Transport Engineering, Master Academic Studies
11.	S0MJ2	Transportation Control	(S00) Traffic and Transport Engineering, Master Academic Studies

Representative references (minimum 5, not more than 10)

1.	Miličić M.: Komercijalna vozila i inteligentni transportni sistemi, 5th Symposium with International Participation, "Prevention of Traffic Accidents on Roads" 2000., 5. Prevenција saobraćajnih nezgoda na putevima, Novi Sad: Institut za saobraćaj, Fakultet tehničkih nauka, 12-13 Oktobar, 2000, pp. 33-38, ISBN 656.1.08(082), UDK: 629.1-4
2.	Gladović P., Miličić M., Simeunović M.: Kvalitet usluge u drumskom transportu, Časopis "Tehnika", Tehnika - Saobraćaj, 2004, No 3, pp. 113-120, ISSN 0558-6208, UDK: 656(062.2)(497.1)
3.	Miličić M.: Saobraćajno upravljački centar, 8th Symposium with international participation, "Prevention of Traffic Accidents on Roads" 2006., 8. Prevenција saobraćajnih nezgoda na putevima, Novi Sad: Institut za saobraćaj, Fakultet tehničkih nauka, 14-16 Jun, 2006, pp. 329-334, ISBN 86-7892-008-4, UDK: 656.053
4.	Škiljaica V., Miličić M.: Sistemizacija pokazatelja prevoza putnika brodovima unutrašnje plovidbe na gradskim i prigradskim linijama, 2. Savremene tendencije unapređenja saobraćaja u gradovima, Novi Sad: Departman za saobraćaj, Fakultet tehničkih nauka, 2009., pp. 157-163, ISBN 978-86-7892-222-0, UDK: 656.342
5.	Miličić M., Basarić V.: Optimization of cargo transport expenses, 4th ICET, 4. Internacional Conference on Engineering Technologies - ICET, Novi Sad: Fakultet tehničkih nauka, 28-30 April, 2009, pp. 164-167, ISBN 978-86-7892-161-2, UDK: 09:917736A0
6.	Miličić M.: Information system of maintaining of vehicles and rolling-stock, svibanj/kolovoz 2009., Suvremeni promet, Časopis za pitanja teorije i prakse prometa, Vol.29, Str. 177-308, Zagreb, svibanj/kolovoz 2009., 2009, Vol. 29, No 3-4, pp. 223-226, ISSN 0351-1898, UDK: 656



UNIVERSITY OF NOVI SAD

FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6

**Study Programme Accreditation**

MASTER ACADEMIC STUDIES

Traffic and Transport Engineering

Representative references (minimum 5, not more than 10)

7.	Basarić V., Miličić M., Mitrović J.: Strateški okviri razvoja urbanog saobraćaja u Evropskoj Uniji, I Savetovanje sa međunarodnim učešćem "Transport i savremeni uslovi poslovanja", 27. i 28. maj Travnik-Vlašić, 1. Transport i savremeni uslovi poslovanja, Travnik: Fakultet za privrednu i tehničku logistiku Travnik, 27-28 Maj, 2010, pp. 63-70, ISBN 978-9958-640-06-3, UDK: 658.7(075.8)
8.	Škiljaica V., Miličić M., Škiljaica I.: Tehničke i eksploatacione karakteristike putničkih brodova za gradski i prigradski saobraćaj, Tehnika - Saobraćaj, 2010, No 5, pp. 7-12, ISSN 0558-6208, UDK: 62(062.2)(497.1)
9.	Basarić V., Miličić M.: Critical analysis of the application of classic four-step model, Put i saobraćaj, 2011, Vol. 57, No 4, pp. 5-8, ISSN 0478-9733
10.	Stojanović Đ., Nikoličić S., Miličić M.: Transport Fleet Sizing by Using Make and Buy Decision-Making, Economic annals, 2011, pp. 77-102, ISSN 0013-3264, UDK: 3.33

Summary data for teacher's scientific or art and professional activity:

Quotation total :	0			
Total of SCI(SSCI) list papers :	0			
Current projects :	Domestic :	0	International :	0

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Science, arts and professional qualifications

Name and last name:	Nikoličić S. Svetlana		
Academic title:	Assistant Professor		
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 01.02.1991		
Scientific or art field:	Integral Transport and Logistics		
Academic career	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Integral Transport and Logistics
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Integral Transport and Logistics
Magister thesis	2001	Faculty of Technical Sciences - Novi Sad	Integral Transport and Logistics
Bachelor's thesis	1988	Faculty of Transport and Traffic Engineering - Beograd	Integral Transport and Logistics

List of courses being held by the teacher in the accredited study programmes

	ID	Course name	Study programme name, study type
1.	S0221	Company Logistics	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
2.	SO211	Introduction to Logistics	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
3.	SO1597	Shaping Logistics Processes in Supply Chains	(S00) Traffic and Transport Engineering, Master Academic Studies
4.	LIM01	Fundamentals of Logistics	(LIM) Logistic Engineering and Management, Master Academic Studies
5.	LIM07	Intermodal Transport Technologies	(LIM) Logistic Engineering and Management, Master Academic Studies
6.	LIM08	Company Logistics	(LIM) Logistic Engineering and Management, Master Academic Studies
7.	LIM11	Supply Chain Design and Management	(LIM) Logistic Engineering and Management, Master Academic Studies
8.	LIM22	Logistic Controlling and Benchmarking	(LIM) Logistic Engineering and Management, Master Academic Studies
9.	LIM23	Logistic Centers	(LIM) Logistic Engineering and Management, Master Academic Studies
10.	LIM24	Urban Logistics	(LIM) Logistic Engineering and Management, Master Academic Studies
11.	S0ML4	Logistics centers	(S00) Traffic and Transport Engineering, Master Academic Studies
12.	S11592	Postal logistics centers	(S01) Postal Traffic and Telecommunications, Master Academic Studies
13.	DSSL1	Supply chain management	(S00) Traffic Engineering, Doctoral Academic Studies
14.	DSSL2	Selected topics from inventory management	(S00) Traffic Engineering, Doctoral Academic Studies
15.	DSSL5	Sustainable Logistics	(S00) Traffic Engineering, Doctoral Academic Studies
16.	DSSL6	Logistics outsourcing	(S00) Traffic Engineering, Doctoral Academic Studies
17.	ZRD232	Logistics in the Security Services and Health at Work	(Z01) Safety at Work, Doctoral Academic Studies

Representative references (minimum 5, not more than 10)

1.	Svetlana Nikoličić, Primena RFID-tehnologija u logistici, Racionalizacija transporta i manipulisanja, 4/04, str. 7-11, YU ISSM 0350-4492
2.	Nikoličić S., Škrinjar D., Stankovski S.: Šta nude RFID tehnologije u logistici, 7. Međunarodni naučno-stručni skup o dostignućima elektro i mašinske industrije - DEMI, Banja Luka: Mašinski fakultet, 27-28 Maj, 2005, pp. 645-651
3.	Nikoličić S., Maslarić M., Stojanović Đ.: Managing Logistic Processes in Retail, Strategic management - International Journal of Strategic Management and Decision Support Systems in Strategic Management, 2008, No 3, pp. 49-53, ISSN 0354-8414, UDK: 005.5:399.372
4.	Nikoličić S., Ostojčić T.: Cross-docking kao način racionalizacije distribucije, Poslovna logistika, 2006, No 3, pp. 42-45, ISSN 1452-4767
5.	Stojanović Đ., Maslarić M., Nikoličić S.: The Relationship Between Collaborative Management And Transport Sourcing In Supply Chains, in Developing Sustainable Collaborative Supply Chains , 12. International Symposium on Logistics, Budimpešta: Centre for Concurrent Enterprise, University of Nottingham, Business School, 8-10 Jul, 2007, pp. 579-584, ISBN 978 0853582182



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Traffic and Transport Engineering

Representative references (minimum 5, not more than 10)

6.	Stojanović Đ., Maslarić M., Nikoličić S.: Using the European Intermodal Transport E-marketplace - The Serbian Perspective , "Strategijski menadžment" Ekonomski fakultet, Subotica, 2008, Vol. 1, No 1, pp. 27-33, ISSN 0354-8414., UDK: 005.51; 658.62
7.	Stojanović Đ., Nikoličić S., Miličić M.: Transport Fleet Sizing by Using Make and Buy Decision-Making, Economic annals, 2011, pp. 77-102, ISSN 0013-3264, UDK: 3.33
8.	Maslarić M., Nikoličić S., Stanković S.: Automatski sistem nabavke u maloprodaji, Poslovna logistika, 2006, No 6, pp. 34-37, ISSN 1452-4767
9.	Maslarić M., Stojanović Đ., Nikoličić S.: Serbian intermodal transport system, Scientific Bulletin of the "Politehnica" University of Timisoara, Romania, Transactions on Mechanics, 2008, Vol. 53, No S4, ISSN 1224-6077
10.	Maslarić M., Stojanović Đ., Nikoličić S.: Logistics industry in Serbia, Scientific Bulletin of the "Politehnica" University of Timisoara, Romania, Transactions on Mechanics, 2008, Vol. 53, No S4, pp. 21-24, ISSN 1224-6077

Summary data for teacher's scientific or art and professional activity:

Quotation total :	0		
Total of SCI(SSCI) list papers :	1		
Current projects :	Domestic :	1	International : 0

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Science, arts and professional qualifications

Name and last name:		Papić M. Zoran	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 01.02.1993	
Scientific or art field:		Traffic Systems	
Academic carier	Year	Institution	Field
Academic title election:	2011	Faculty of Technical Sciences - Novi Sad	Traffic Systems
PhD thesis	2010	Faculty of Technical Sciences - Novi Sad	Traffic Engineering
Magister thesis	1998	Faculty of Technical Sciences - Novi Sad	Traffic Systems
Bachelor's thesis	1992	Faculty of Technical Sciences - Novi Sad	Traffic Systems
List of courses being held by the teacher in the accredited study programmes			
ID	Course name	Study programme name, study type	
1.	S0433 Traffic Accidents Expertise	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies	
2.	S0435 Parking and Public Parking Garages	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies	
3.	S0440 Traffic Terminal Servers	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies	
4.	M2549 ROAD TRAFFIC FORENSIC ENGINEERING	(M22) Mechanization and Construction Engineering, Master Academic Studies	
5.	S0I53F Forensic Engineering in Traffic	(S00) Traffic and Transport Engineering, Master Academic Studies	
6.	S0MI4N Behaviour processes in traffic engineering	(S00) Traffic and Transport Engineering, Master Academic Studies	
7.	SDI24 Road Safety Measures	(S00) Traffic Engineering, Doctoral Academic Studies	
8.	DSSB2 Behavioural models in traffic safety	(S00) Traffic Engineering, Doctoral Academic Studies	
Representative references (minimum 5, not more than 10)			
1.	Analiza savremenih metoda i mogućnosti njihove primene za utvrđivanje sudarnih brzina kod ekspertiza čeonih sudara automobila, magistarska teza, Fakultet tehničkih nauka, Novi Sad, 1998.		
2.	Analyze of Changes in Exterior Dimensions of Cars During Collison with Fixed Barriers, Mobility & Vehicle Mechanics, Vol. 23, No.1, Kragujevac, 1997.		
3.	Analyses of Car Body Deformable Behaviour in Frontal Off-Set Collision, "MOTAUTO '97", Proceeding Vol.2, Russe, Bulgaria, 1997.		
4.	An Analytical approach to determination of the impact speed in frontall passenger car collisions, "MOTOATO 98", Proceeding Vol. III, Sofia october 1998.		
5.	Determination of some vehicle parametars necessary for vehicle crash expertise using impulse-balance method, "MOTAUTO' 99", Proceeding Vol. II, Plovdiv, 1999.		
6.	Application of Marquard Equations in Vehicle Crash Expertise, "MOTAUTO '01", Proceeding Vol. II, Varna October 2001.		
7.	Analiza intenziteta usporenja vozila bez upotrebe radne kočnice, VIII Simpozijum sa međunarodnim učešćem "Prevenција saobraćajnih nezgoda na putevima 2004", Novi Sad, Oktobar 2006.		
8.	Ispitivanje pouzdanosti primene kočionog koeficijenta za utvrđivanje brzine kretanja vozila", VII Simpozijum sa međunarodnim učešćem "Prevenција saobraćajnih nezgoda na putevima 2004", Novi Sad, Oktobar 2004.		
9.	Uticaj uličnog parkiranja na kapacitet gradskih saobraćajnica, časopis Tehnika 08/2006, Beograd, 2006.		
10.	Prilog istraživanju manevra bočnog izmicanja vozila za potrebe ekspertiza saobraćajnih nezgoda		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		3	
Current projects :		Domestic :	International :
		2	0

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Science, arts and professional qualifications

Name and last name:		Renčelj D. Marko	
Academic title:		Guest Professor	
Name of the institution where the teacher works full time and starting date:		-	
Scientific or art field:		Planiranje, regulisanje i bezbednost saobraćaja	
Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Planiranje, regulisanje i bezbednost saobraćaja
PhD thesis	2009	University of Trieste, Italia - Nepoznato	Traffic Paths
Magister thesis	2002	University of Maribor - Maribor	Traffic Paths
Bachelor's thesis	1998	University of Maribor - Maribor	Traffic Paths
List of courses being held by the teacher in the accredited study programmes			
ID	Course name	Study programme name, study type	
1.	S0MI4S Road infrastructure and road safety in urban areas	(S00) Traffic and Transport Engineering, Master Academic Studies	
Representative references (minimum 5, not more than 10)			
1.	ŠRAML, Matjaž, TOLLAZZI, Tomaž, RENČELJ, Marko. Traffic safety analysis of powered two-wheelers (PTWs) in Slovenia. Accident anal. prev.. [Print ed.], Available online 30 January 2012, doi: 10.1016/j.aap.2011.12.013. [COBISS.SI-ID 15767574], [JCR, Scopus up to 30. 10. 2012: no. of citations (TC): 0, without self-citations (CI): 0, weighted no. of citations (NC): 0]		
2.	TOLLAZZI, Tomaž, RENČELJ, Marko, RODOŠEK, Vlasta, ZALAR, Borut. Traffic safety of older drivers in various types of road intersections. Promet (Zagreb), 2010, vol. 22, no. 3, str. 193-201. [COBISS.SI-ID 14240022], [JCR, WoS up to 10. 4. 2012: no. of citations (TC): 1, without self-citations (CI): 1, weighted no. of citations (NC): 1, Scopus up to 30. 5. 2012: no. of citations (TC): 4, without self-citations (CI): 4, weighted no. of citations (NC): 4]		
3.	TOLLAZZI, Tomaž, RENČELJ, Marko, TURNŠEK, Sašo. New type of roundabout : roundabout with "depressed" lanes for right turning - "flower roundabout". Promet (Zagreb), 2011, vol. 23, no. 5, str. 353-358. [COBISS.SI-ID 15507990], [JCR, WoS up to 8. 5. 2012: no. of citations (TC): 0, without self-citations (CI): 0, weighted no. of citations (NC): 0, Scopus up to 28. 12. 2011: no. of citations (TC): 0, without self-citations (CI): 0, weighted no. of citations (NC): 0]		
4.	RENČELJ, Marko, LAVRIČ, David. "Black spots management" on Slovenian roads - analysis and proposed improvement. Suvremeni promet, 2008, vol 28, no. 6, str. 428-433. [COBISS.SI-ID 12802070]		
5.	RENČELJ, Marko. Procjena stanja okoliša u blizini ceste predviđene za rekonstrukciju. Suvremeni promet, 2002, vol. 22, no 6, str. 521-523. [COBISS.SI-ID 7583254]		
6.	TOLLAZZI, Tomaž, RENČELJ, Marko, JOVANOVIĆ, Goran, TURNŠEK, Sašo. Nov tip krožnega križišča: krožno križišče s pritisnjenimi pasovi za desne zavijalce - "flower roundabout" = New type of roundabout: roundabout with depressed lanes for right turning - "flower roundabout". Gradb. vestn., jun. 2011, letn. 60, št. [6], str. 164-169, fotograf. [COBISS.SI-ID 15084566]		
7.	TOLLAZZI, Tomaž, RENČELJ, Marko, ZAVASNIK, Zvonko. Metodologija za prognoziranje očekivanog stupnja prometne sigurnosti u novopredviđenim raskrižjima = Methodology for predicting the expected level of traffic safety in new intersections. Suvremeni promet, 2005, vol 25, no. 1/2, str. 252-256. [COBISS.SI-ID 9526294]		
8.	RENČELJ, Marko, ŠRAML, Matjaž. Black spots management - Slovenian experience. V: VUJANIĆ, Milan (ur.). X Međunarodni simpozijum "Prevenција saobraćajnih nezgoda na putevima 2010 = 10 th International symposium "Road accidents prevention 2010", [Novi Sad, 21. i 22. oktobar 2010.]. Zbornik radova. Novi Sad: Fakultet tehničkih nauka, 2010, str. 55-63. [COBISS.SI-ID 14518038]		
9.	RENČELJ, Marko. Comparative analysis about speed reduction on the different types of the traffic calming measures in Slovenia. V: 14th International Conference Road safety on four continents, Bangkok, Thailand, 14-16 November 2007. Conference proceedings. 2007, 11 f. [COBISS.SI-ID 12052758]		
10.	UNIVERSITA' DEGLI STUDI DI TRIESTE, DOTTORATO DI RICERCA IN INGEGNERIA DELLE INFRASTRUTTURE, STRUTTURE E TRASPORTI: THE METHODOLOGY FOR PREDICTING THE EXPECTED LEVEL OF TRAFFIC SAFETY IN THE DIFFERENT TYPES OF LEVEL INTERSECTIONS, 2009.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		4	
Total of SCI(SSCI) list papers :		3	
Current projects :		Domestic :	2
		International :	0

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Science, arts and professional qualifications

Name and last name:	Simeunović M. Milan		
Academic title:	Assistant Professor		
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 15.03.1998		
Scientific or art field:	Transport Organization and Technology		
Academic career	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Transport Organization and Technology
PhD thesis	2012	Faculty of Technical Sciences - Novi Sad	Traffic Engineering
Magister thesis	2001	Faculty of Technical Sciences - Novi Sad	Traffic Engineering
Bachelor's thesis	1997	Faculty of Technical Sciences - Novi Sad	Traffic Engineering

List of courses being held by the teacher in the accredited study programmes

	ID	Course name	Study programme name, study type
1.	S0432	Traffic Flow Theory	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (G00) Civil Engineering, Undergraduate Academic Studies
2.	S0436	Urban Public Transport	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
3.	S0441	Urban Public Transport Technology	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
4.	S051	Traffic Design	(S00) Traffic and Transport Engineering, Master Academic Studies
5.	S0I591	Quality System in Road Transport	(S00) Traffic and Transport Engineering, Master Academic Studies
6.	S0I592	Project Evaluation	(S00) Traffic and Transport Engineering, Master Academic Studies
7.	S0I594	Traffic Forecasts	(S00) Traffic and Transport Engineering, Master Academic Studies
8.	S0MJ4	Planning of Public transport	(S00) Traffic and Transport Engineering, Master Academic Studies
9.	SOP2	Transportation Demand Management	(S00) Traffic and Transport Engineering, Master Academic Studies
10.	SDI6	Optimization of the Goods Transportation Process	(OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies
11.	SDI7	Passenger Transport Process Optimization	(S00) Traffic Engineering, Doctoral Academic Studies
12.	DSSK3A	Research and simulation of road traffic flow	(S00) Traffic Engineering, Doctoral Academic Studies
13.	DSSK4	Urban planning and development of transport networks	(S00) Traffic Engineering, Doctoral Academic Studies
14.	DSSK6	Maintainable urban transport systems	(S00) Traffic Engineering, Doctoral Academic Studies

Representative references (minimum 5, not more than 10)

1.	Pavle Gladović, Milan Simeunović, Sistemi javnog autotransporta robe, Fatkultet tehničkih nauka, 2004.
2.	Simeunović M., Leković M., Bogdanović V., Papić Z., Pitka P.: The application of a five-regime model in adaptive traffic control, Technics Technologies Education Management / TTEM, 2013, Vol. 8, No 1.2/3, ISSN 1840-1503
3.	Simeunović M., Leković M., Papić Z., Pitka P.: The influence of vehicle headway irregularity in public transport on in-vehicle passenger comfort, Scientific Research and Essays, 2012, Vol. 7, No 32, pp. 2874-2881, ISSN 1992-2248
4.	Simeunović M., Leković M., Radojković M., Pitka P.: The Information System "Ispu" for Monitoring and Controlling Transport, Suvremeni promet, 2011, pp. 65-69, ISSN 0351-1898, UDK: 343.346:614.8
5.	Pavle Gladović, Milorad Eskić, Milan Simeunović, 16. Geometrijski model upravljanja procesom preventivnog održavanja fuzzy logikom, Časopis "TEHNIKA", br. 4/5 Beograd 2003, str 7-17.
6.	Pavle Gladović, Milan Simeunović, Milica Miličić, Kvalitet usluge u drumskom transportu, Časopis Saveza inženjera i tehničara "TEHNIKA" br.3, str 113-120, Beograd 2004.
7.	Milan Simeunović, Vreme čekanja kao parametar kvaliteta prevozne usluge u javnom prevozu putnika, str. 245-251 10th International Conference DEPENDABILITY AND QUALITY MANAGEMENT ICDQM-2007 Belgrade, Serbia, 13-14 June 2007.
8.	Milimir Veselinović, Milan Simeunović, Ravnomernost intervala u funkciji kvaliteta usluge u javnom prevozu, "SAVREMENE STRATEGIJE UNAPREĐENJA SAOBRAĆAJA U GRADOVIMA, Novi Sad, 18–19. X.2007
9.	Milimir Veselinović, Milan Stanisljević, Milan Simeunović, Značaj železnice u raspodeli putovanja po podsystemima u javnom gradskom i prigradskom prevozu putnika, JUŽEL, Vrnjačka Banja, 1999. str 533-536



UNIVERSITY OF NOVI SAD

FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6

**Study Programme Accreditation**

MASTER ACADEMIC STUDIES

Traffic and Transport Engineering

Representative references (minimum 5, not more than 10)

10.	Pavle Gladović, Mllan Simeunović, Milica Miličić, Zahtevani kvalitet usluge sistema javnog gradskog i prigradskog prevoza putnika, 10th International Conference DEPENDABILITY AND QUALITY MANAGEMENT ICDQM-2007 Belgrade, Serbia, 13-14 June 2007.str 269-275
-----	--

Summary data for teacher's scientific or art and professional activity:

Quotation total :	1			
Total of SCI(SSCI) list papers :	2			
Current projects :	Domestic :	1	International :	0

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Science, arts and professional qualifications

Name and last name:	Simić S. Dragan		
Academic title:	Assistant Professor		
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 01.03.2009		
Scientific or art field:	Integral Transport and Logistics		
Academic career	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Integral Transport and Logistics
PhD thesis	2004	Faculty of Sciences - Novi Sad	Informatics and Computing
Magister thesis	2001	Faculty of Technical Sciences - Novi Sad	Informatics and Computing
Bachelor's thesis	1987	Faculty of Technical Sciences - Novi Sad	Electronics and Telecommunications

List of courses being held by the teacher in the accredited study programmes

	ID	Course name	Study programme name, study type
1.	S01321	Information technology basics	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
2.	S024N	Information technologies in transport	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
3.	S01598	E-Logistics	(S00) Traffic and Transport Engineering, Master Academic Studies
4.	BMIM4E	Data analysis in clinical research	(BM0) Biomedical Engineering, Master Academic Studies
5.	S0M22	PROJECT MANAGEMENT	(S00) Traffic and Transport Engineering, Master Academic Studies
6.	SI593	Information systems for managing Enterprise resource planing	(S01) Postal Traffic and Telecommunications, Master Academic Studies
7.	DSA00	Logistics of Heterogeneous Intensive Processes	(S00) Traffic Engineering, Doctoral Academic Studies
8.	DSIM9	E-logistics	(S00) Traffic Engineering, Doctoral Academic Studies
9.	DSN1	Logistics Systems	(OM1) Mathematics in Engineering, Doctoral Academic Studies
10.	DSSL2	Selected topics from inventory management	(S00) Traffic Engineering, Doctoral Academic Studies
11.	DSSL3	Warehouse and storage	(S00) Traffic Engineering, Doctoral Academic Studies
12.	DSSL4	Logistics information systems	(S00) Traffic Engineering, Doctoral Academic Studies

Representative references (minimum 5, not more than 10)

1.	Dragan Simić, Ilija Kovačević, Svetlana Simić, "Insolvency prediction for assessing corporate financial health". Logic Journal of the IGPL, Vol. 20, Num 3, pp. 536-549 (2012) ISSN 1367-0751
2.	Svetlana Simić, Dragan Simić, Milan Cvijanović. "Clinical and socio-demographic characteristics of tension type headache in working population". HealthMED – Vol. 6, Num. 4, 2012. pp. 1341-1347. ISSN: 1840-2991
3.	Simić Svetlana, Simić Dragan: "Relationship between sociodemographic characteristics and migraine in working women". HealthMED, Vol. 4, Num. 1 (2010) pp. 21-28
4.	Dragan Simić, Svetlana Simić, "An approach to efficient business intelligent system for financial prediction", In: Mu-Yen Chen (ed.) "Soft Computing—" Vol. 11, Num 12, October 2007, pp. 1185-1192, Springer-Verlag, Berlin Heidelberg (2007). ISSN 1432-7643
5.	Dragan Simić, Zoran Budimac, Vladimir Kurbalija, Mirjana Ivanović, Case-Based Reasoning for Financial Prediction, In: Moonis Ali, Floriana Esposito (eds.) "Innovations in Applied Artificial Intelligence", LNAI vol. 3533, pp. 839-841. Springer-Verlag, Berlin Heidelberg (2005). ISSN 0302-9743
6.	Dragan Simić, Svetlana Simić, "Hybrid Artificial Intelligence Approaches on Vehicle Routing Problem in Logistics Distribution", "Hybrid Artificial Intelligent Systems", LNAI, vol. 7208, pp. 208-220. Springer-Verlag Berlin Heidelberg (2012), DOI: 10.1007/978-3-642-28942-2_19, ISSN 0302-9743
7.	Dragan Simić, Dragana Milutinović, Svetlana Simić, Vesna Suknjaja: "Hybrid Patient Classification System in Nursing Logistics Activities". "Hybrid Artificial Intelligent Systems", LNAI vol. 6679, pp. 421-428. Springer-Verlag, Berlin Heidelberg (2011). ISSN 0302-9743
8.	Dragan Simić, Svetlana Simić, Ilija Tanackov, "An Approach of Soft Computing Applications in Clinical Neurology", "Hybrid Artificial Intelligent Systems", LNAI vol. 6679, pp. 429-436. Springer-Verlag, Berlin Heidelberg (2011). ISSN 0302-9743
9.	Dragan Simić, Svetlana Simić, "A Review: Approach of Fuzzy Models Application in Logistics", "ADVANCES IN INTELLIGENT AND SOFT COMPUTING", vol. 95, Computer Recognition Systems 4, pp. 717-726, ISSN 1867-5662, ISBN 978-3-642-20319-0, Springer-Verlag Berlin Heidelberg, 2011
10.	Ilija Tanackov, Dragan Simić, Sinisa Sremac, Jovan Tepić, Suncica Kocić-Tanackov: "Markovian Ants in a Queuing System", "Hybrid Artificial Intelligent Systems", LNAI vol. 6076, pp. 32-39. Springer-Verlag, Berlin Heidelberg (2010). ISSN 0302-9743

Summary data for teacher's scientific or art and professional activity:

Quotation total : | 0



UNIVERSITY OF NOVI SAD

FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Traffic and Transport Engineering

Total of SCI(SSCI) list papers :	6			
Current projects :	Domestic :	1	International :	0

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Science, arts and professional qualifications

Name and last name:	Stojanović M. Đurđica		
Academic title:	Assistant Professor		
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 26.01.1996		
Scientific or art field:	Integral Transport and Logistics		
Academic career	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Integral Transport and Logistics
PhD thesis	2010	Faculty of Technical Sciences - Novi Sad	Integral Transport and Logistics
Magister thesis	2002	Faculty of Technical Sciences - Novi Sad	Integral Transport and Logistics
Bachelor's thesis	1994	Faculty of Technical Sciences - Novi Sad	Traffic Systems

List of courses being held by the teacher in the accredited study programmes

	ID	Course name	Study programme name, study type
1.	S0212	Freight Forwarding	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
2.	S0330	Intermodal Transport Technology	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
3.	S01552	Freight forwarding in postal traffic	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
4.	LIM31	Reverse and Green logistics	(S00) Traffic and Transport Engineering, Master Academic Studies
5.	LIM01	Fundamentals of Logistics	(LIM) Logistic Engineering and Management, Master Academic Studies
6.	LIM03	Technologies of Combined Transport	(LIM) Logistic Engineering and Management, Master Academic Studies
7.	LIM09	External Logistic System Planning	(LIM) Logistic Engineering and Management, Master Academic Studies
8.	LIM11	Supply Chain Design and Management	(LIM) Logistic Engineering and Management, Master Academic Studies
9.	LIM22	Logistic Controlling and Benchmarking	(LIM) Logistic Engineering and Management, Master Academic Studies
10.	LIM23	Logistic Centers	(LIM) Logistic Engineering and Management, Master Academic Studies
11.	LIM24	Urban Logistics	(LIM) Logistic Engineering and Management, Master Academic Studies
12.	LIM26	International Logistics and Global Supply Chains	(LIM) Logistic Engineering and Management, Master Academic Studies
13.	DSSL1	Supply chain management	(S00) Traffic Engineering, Doctoral Academic Studies
14.	DSSL2	Selected topics from inventory management	(S00) Traffic Engineering, Doctoral Academic Studies
15.	DSSL5	Sustainable Logistics	(S00) Traffic Engineering, Doctoral Academic Studies
16.	DSSL6	Logistics outsourcing	(S00) Traffic Engineering, Doctoral Academic Studies

Representative references (minimum 5, not more than 10)

1.	Gajić, V. Cakić, Đ.: „Praktikum iz špedicije – elementi teorije, primeri i zadaci“, izdavač FTN, ISBN 978-86-7892-052-3, Novi Sad, 2007
2.	Stojanović Đ., Gajić V.: Praktikum iz špedicije - elementi teorije, primeri i zadaci, drugo izmenjeno i dopunjeno izdanje, Novi Sad, Fakultet tehničkih nauka, Univerzitet u Novom Sadu, 2010, str. 1-211, ISBN 978-86-7892-300-5, UDK: 656.96(075.8)
3.	Stojanović Đ., Veličković M.: THE IMPACT OF FREIGHT TRANSPORT ON GREENHOUSE GASES EMISSIONS IN SERBIAN CITIES - THE CASE OF NOVI SAD, Metalurgia international, 2012, No 6, pp. 196-201, ISSN 1582-2214
4.	Maslarić M., Stojanović Đ., Nikoličić S.: Serbian intermodal transport system, Scientific Bulletin of the "Politehnica" University of Timisoara, Romania, Transactions on Mechanics, 2008, Vol. 53, No S4, ISSN 1224-6077
5.	Cakić, Đ., Maslarić, M., Nikoličić, S.: Using the European Intermodal Transport E-marketplace - The Serbian Perspective, International Journal of Strategic Management and Decision Support Systems in Strategic Management, 2008, Vol. 1, No. 1, str. 27- 33, UDK: 005.51; 658.62, ISSN 0354-8414.
6.	Stojanović Đ., Veličković M., Gajić V.: Razvoj ekološki orijentisane urbane logistike, Ekologica, 2012, Vol. 19, No 66, pp. 195-200, UDK: 502.7



UNIVERSITY OF NOVI SAD

FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6

**Study Programme Accreditation**

MASTER ACADEMIC STUDIES

Traffic and Transport Engineering

Representative references (minimum 5, not more than 10)

7.	Tomic I., Stojanović Đ., Maslarić M.: Trends in forwarding industry in Serbia and the role of small and medium forwarding enterprises (SMFEs), 12. XIIth International Symposium "Young people and multidisciplinary research", Timisoara: Association for Multidisciplinary Research of the West Zone of Romania, 11-12 November, 2010, pp. 50-55, ISBN 1843-6609
8.	Veličković M., Stojanović Đ., Basarić V.: An approach to city logistics terminal location problem in Novi Sad, Scientific Bulletin of the "Politehnica" University of Timisoara, Romania, Transactions on Mechanics, 2011, ISSN 1224-6077
9.	Ilin V., Stojanović Đ., Gajić V.: The characteristics of reverse logistics in small and medium enterprises (SMEs) in Novi Sad, 11. International Conference on Industrial Logistics, Zadar: Faculty of Mechanical Engineering and Naval Architecture, 14-16 Jun, 2012, pp. 376-383, ISBN 978-953-7738-16-7
10.	Logistički outsourcing, FTN, 2012 (dato na recenziju)
Summary data for teacher's scientific or art and professional activity:	
Quotation total :	0
Total of SCI(SSCI) list papers :	1
Current projects :	Domestic : 2 International : 1

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Science, arts and professional qualifications

Name and last name:	Stojić S. Gordan		
Academic title:	Assistant Professor		
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 01.01.2008		
Scientific or art field:	Transport System Technologies		
Academic career	Year	Institution	Field
Academic title election:	2011	Faculty of Technical Sciences - Novi Sad	Transport System Technologies
PhD thesis	2010	Faculty of Technical Sciences - Novi Sad	Traffic Engineering
Magister thesis	2003	Faculty of Transport and Traffic Engineering - Beograd	Traffic Engineering
Bachelor's thesis	1996	Faculty of Transport and Traffic Engineering - Beograd	Transport System Technologies

List of courses being held by the teacher in the accredited study programmes

	ID	Course name	Study programme name, study type
1.	S015A	Knowledge of Goods in Transport 1	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
2.	S0323	Railway Transport Technology	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
3.	S0328	Organization of Railway Transport	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
4.	S015N2	Urban-Suburban Rail Transport of Passengers	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
5.	S015ZŽ	Technology of Railway Stations	(S00) Traffic and Transport Engineering, Master Academic Studies
6.	S015ŽS	Railway Lines and Stations	(S00) Traffic and Transport Engineering, Master Academic Studies
7.	S0M4	Modelling of Traffic and Transport	(S00) Traffic and Transport Engineering, Master Academic Studies
8.	DSS01	Selected Chapters of Railway Safety	(S00) Traffic Engineering, Doctoral Academic Studies
9.	DSS05	Optimization Methods and Technology Capacity in Rail Transport	(S00) Traffic Engineering, Doctoral Academic Studies
10.	DSS06	Rail Transport Logistics	(S00) Traffic Engineering, Doctoral Academic Studies

Representative references (minimum 5, not more than 10)

1.	Stojić, G., Vesković, S., Tanackov, I., Milinković, S.: Model for Railway Infrastructure Management Organization, Promet – Traffic&Transportation (IF=0,177), Vol. 24, No. 2, 2012, pp. 99-107, ISSN: 1848-4069
2.	Stojić, G.: Using Fuzzy Logic for Evaluating the Level of Countries' (Regions') Economic Development, Panoeconomicus (IF=0,396), Volume 59, Issue 3, 2012, pp. 293-310, doi:10.2298/PAN1203293S
3.	Dimanoski, K., Stojić, G., Vesković, S., Branović, I.: Model za determinisanje kvaliteta usluga u putničkom železničkom prevozu, III međunarodni simpozijum „Novi horizonti saobraćaja i komunikacija 2011“, str. 43-47, ISBN 978-99955-36-28-2, Doboj, Bosna i Hercegovina, 24.-25. Novembar, 2011.
4.	Dimanoski, K., Stojić, G., Vesković, S., Tanackov, I.: Model for Dimensioning Technology and Capacity of Border Railway Stations, Promet – Traffic&Transportation (IF=0,177), Vol. 24, No. 5, 2012, pp. 371-379, ISSN: 1848-4069
5.	Vesković, S., Tepić, J., Ivić, M., Stojić, G., Milinković, S.: Model for Predicting the Frequency of Broken Rails, Metalurgija (IF=0,348), Croatian Metallurgical Society, Vol.51., No.2, April/June 2012, pp. 221-224, ISSN: 0543-5846
6.	Tepić, J., Todić, V., Tanackov, I., Lukić, D., Stojić, G., Sremac, S.: Modular system design for plastic euro pallets, Metalurgija (IF=0,348), Croatian Metallurgical Society, Vol.51., No.2, April/June 2012, pp. 241-244, ISSN: 0543-5846
7.	Vesković, S., Đorđević, Ž., Ivić, M., Stojić, G., Tepić, J., Tanackov, I.: Necessity and effects of dynamic system for railway wheel defect detection, Metalurgija (IF=0,348), Croatian Metallurgical Society, Vol. 51, No.3, pp. 333-336, 2012, ISSN: 0543-5846
8.	Stojić, G., Tanackov, I., Vesković, S., Milinković, S. and Simić, D.: Modelling Evaluation of Railway Reform Level Using Fuzzy Logic, Lecture Notes in Computer Science/Lecture Notes in Artificial Intelligence, Springer Berlin/Heidelberg, Volume 5788/2009, pp. 695-702, September 2009. ISSN: 0302-9743
9.	Vesković, S., Raičević, V., Stojić, G., Milinković, S.: Model to Estimate the Passenger Rail Liberalisation: The Case of Serbia, International Journal for Traffic And Transport Engineering (IJTTE), Issues / VOLUME 2 (3), 2012, pp. 202-220, DOI: 10.7708/ijtte.2012.2(3).04 ISSN 2217-544X



UNIVERSITY OF NOVI SAD

FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Traffic and Transport Engineering

Representative references (minimum 5, not more than 10)

10. Tepić, J., Tanackov, I., Stojić, G.: Ancient Logistics – Historical Timeline and Etymology, Technical Gazette (IF=0,083), Scientific-professional Journal of Technical Faculties of University in Osijek, Vol. 18 No. 3, September 2011, pp. 379-384, ISSN 1330-3651

Summary data for teacher's scientific or art and professional activity:

Quotation total :	3			
Total of SCI(SSCI) list papers :	7			
Current projects :	Domestic :	2	International :	0

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Science, arts and professional qualifications

Name and last name:	Tanackov J. Ilija		
Academic title:	Associate Professor		
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 20.08.1996		
Scientific or art field:	Transport System Technologies		
Academic career	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Transport System Technologies
PhD thesis	2004	Faculty of Technical Sciences - Novi Sad	Traffic Systems
Magister thesis	1999	Faculty of Technical Sciences - Novi Sad	Traffic Systems
Bachelor's thesis	1996	Faculty of Transport and Traffic Engineering - Beograd	Traffic Systems

List of courses being held by the teacher in the accredited study programmes

	ID	Course name	Study programme name, study type
1.	S015A	Knowledge of Goods in Transport 1	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
2.	S0323	Railway Transport Technology	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
3.	URZP36	Risks in Manipulating Hazardous Substances	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
4.	S01551	Fundamentals of air transport.	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
5.	S0153Ž	Rail Transport Safety	(S00) Traffic and Transport Engineering, Master Academic Studies
6.	S015ŽS	Railway Lines and Stations	(S00) Traffic and Transport Engineering, Master Academic Studies
7.	S0M22	PROJECT MANAGEMENT	(S00) Traffic and Transport Engineering, Master Academic Studies
8.	S0M4	Modelling of Traffic and Transport	(S00) Traffic and Transport Engineering, Master Academic Studies
9.	SDI25	Management of the Processes in Railway Vehicles Exploitation and Maintenance	(S00) Traffic Engineering, Doctoral Academic Studies
10.	SDI26	Experimental Research in the Mechanics of Railway Vehicle Movement	(S00) Traffic Engineering, Doctoral Academic Studies
11.	DSSL3	Warehouse and storage	(S00) Traffic Engineering, Doctoral Academic Studies
12.	DSSO1	Selected Chapters of Railway Safety	(S00) Traffic Engineering, Doctoral Academic Studies
13.	DSSO2	Logistic systems	(S00) Traffic Engineering, Doctoral Academic Studies
14.	DSSO5	Optimization Methods and Technology Capacity in Rail Transport	(S00) Traffic Engineering, Doctoral Academic Studies
15.	DSSO6	Rail Transport Logistics	(S00) Traffic Engineering, Doctoral Academic Studies

Representative references (minimum 5, not more than 10)

1.	Mirko Vlahović, Ilija Tanackov; Poznavanje robe u transportu, IP Vaša knjiga, Bijelo Polje, 2005
2.	Đorđe Kopic, Ilija Tanackov; Zbirka rešenih zadataka iz tehnologije železničkog saobraćaja, FTN Izdavaštvo, Novi Sad, 2004
3.	Tepić J., Tanackov I., Stojić G., Sremac S.: Poznavanje robe u transportu 2, Novi Sad, Fakultet tehničkih nauka, 2012
4.	J. Pejin, O. Grujic, S. Markov, S. Kocic-Tanackov, I. Tanackov, D. Cvetkovic, M. Djurendic; Application of GC/MS method using SPE columns for quantitative determination of diacetyl and 2,3-pentanedione during beer fermentation, J. Am. Soc. Brew.Chem., 64 (1), pp. 52-60. 2006.
5.	Tepić J., Tanackov I., Stojić G.: Ancient Logistic - Historical Timeline and Etimology, Tehnički vjesnik/Technical Gazette, 2011, Vol. 18, No 3, ISSN 1330-3651
6.	Tepić J., Todić V., Tanackov I., Lukić D., Stojić G., Sremac S.: Modular System Design for Plastic Euro Pallets, Metalurgija, 2012, Vol. 51, No 4, ISSN 0543-5846, UDK: 621.824:621.886.6:621.887=111
7.	Vesković S., Đorđević Ž., Stojić G., Tepić J., Tanackov I.: Necessity and Effects of Dynamic Systems for Railway Wheel Defect Detection, METALURGIJA, 2012, Vol. 51, No 2, UDK: 621.824:621.886.6:621.887=111
8.	Stojić G., Vesković S., Tanackov I., Milinković S.: Model for Railway Infrastructure Management Organization, Promet - Traffic



UNIVERSITY OF NOVI SAD

FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Traffic and Transport Engineering

Representative references (minimum 5, not more than 10)

9.	Dimanoski K., Stojić G., Vesković S., Tanackov I.: Model for Dimensioning Technology and Capacity of Border Railway Stations, Promet - Traffic
10.	Tanackov I., Tepić J., Kostelac M.: The Golden Ratio in Probabilistic and Artificial Intelligence, Tehnički vjesnik/Technical Gazette, 2011, Vol. 19, No 4, pp. 641-647, ISSN 1330-3651, UDK: UDC/UDK 514.112:[519.217 004.896]

Summary data for teacher's scientific or art and professional activity:

Quotation total :	12			
Total of SCI(SSCI) list papers :	10			
Current projects :	Domestic :	2	International :	0

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Traffic and Transport Engineering	

Science, arts and professional qualifications

Name and last name:	Tepić Đ. Jovan		
Academic title:	Associate Professor		
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 01.05.2006		
Scientific or art field:	Transport System Technologies		
Academic career	Year	Institution	Field
Academic title election:	2011	Faculty of Technical Sciences - Novi Sad	Transport System Technologies
PhD thesis	2006	Faculty of Technical Sciences - Novi Sad	Transport System Technologies
Magister thesis	2005	Faculty of Technical Sciences - Novi Sad	Transport System Technologies
Bachelor's thesis	1984	Faculty of Mechanical Engineering and Naval Architecture - Zagreb	Machine Constructions, Transport Systems and Logistics

List of courses being held by the teacher in the accredited study programmes

ID	Course name	Study programme name, study type
1. S019	Goods transport logistics properties	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
2. S0323	Railway Transport Technology	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
3. S015N2	Urban-Suburban Rail Transport of Passengers	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
4. S015N3	Maintenance and availability of means of transport	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
5. S017Ž	Towing vehicles and trains	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
6. S11110	Engineering analysis	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
7. S0152Ž	Technology of Railway Stations	(S00) Traffic and Transport Engineering, Master Academic Studies
8. S0153Ž	Rail Transport Safety	(S00) Traffic and Transport Engineering, Master Academic Studies
9. S015ŽS	Railway Lines and Stations	(S00) Traffic and Transport Engineering, Master Academic Studies
10. SDI25	Management of the Processes in Railway Vehicles Exploitation and Maintenance	(S00) Traffic Engineering, Doctoral Academic Studies
11. SDI26	Experimental Research in the Mechanics of Railway Vehicle Movement	(S00) Traffic Engineering, Doctoral Academic Studies
12. DSS01	Selected Chapters of Railway Safety	(S00) Traffic Engineering, Doctoral Academic Studies
13. DSS05	Optimization Methods and Technology Capacity in Rail Transport	(S00) Traffic Engineering, Doctoral Academic Studies
14. DSS06	Rail Transport Logistics	(S00) Traffic Engineering, Doctoral Academic Studies

Representative references (minimum 5, not more than 10)

1.	Jovan Đ. Tepić: Istraživanje uticaja mase i brzine šinskih vozila na vrednost otpora od krivine, Monografska publikacija, FTN Novi Sad, 2007. godine.
2.	Jovan Đ. Tepić: Šinska vozila, Udžbenik, ISBN 978-86-7892-086-8, FTN Izdavaštvo, Novi Sad, 2007. godine
3.	Jovan Đ. Tepić: Vuča vozova, Udžbenik, FTN Izdavaštvo, Novi Sad, ISBN 978-86-7892-091-2, 2008. godine
4.	Jovan Đ. Tepić: ZBIRKA REŠENIH ZADATAKA IZ ŠINSKIH VOZILA I VUČE VOZOVA, FTN Izdavaštvo, Novi Sad, 2008. godine
5.	Jovan Tepić: Analiza stalnih otpora šinskih vozila određenih metodom gravitacionog kretanja, Tehnika, Beograd, 2008, MAŠINSTVO 57 (2008) 6, str. 1 - 6, UDC 629.4.015.017.001.42=861, YU ISSN 0040-2176.
6.	Jovan Tepić, Milan Kostelac: Application of gravitational method by determination of rail vehicles constant resistance, Transactions of FAMENA, Vol. 32, No. 2, Zagreb, 2008, str. 31 – 40, UDK 629.4.077, ISSN 1333-1124.
7.	Tepić, J., Kostelac, M.: Primjena gravitacijske metode kod određivanja stalnih otpora tračničkih vozila, Predavanje po pozivu, Znanstveno-stručno predavanje, Hrvatsko društvo za mehaniku (HDM), Strojarski fakultet, Slavonski Brod, 2009.
8.	Tepić, J.: Metode smanjenja habanja šina lakih šinskih vozila, 11th International Conference on Tribology, SERBIATRIB 09, May 13 – 15, 2009, Belgrade, Serbia, str. 324 - 329, ISBN978-86-7083-659-4.



UNIVERSITY OF NOVI SAD

FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6

**Study Programme Accreditation**

MASTER ACADEMIC STUDIES

Traffic and Transport Engineering

Representative references (minimum 5, not more than 10)

9.	Tepić, J., Kostelac M., Methodology for determining of curving resistance contributions of locomotive's axles, 6th International Congress of Croatian Society of Mechanich, September 30 - October 2, 2009, Dubrovnik, 2009, str. 100-101. ISBN 978-953-7539-10-8.
10.	Tepić, J., Kostelac M., Analysis of resistance forces on individual locomotive parts in track curvature, 26th Danubia-Adria Symposium on Advances in Experimental Mechanics, Montanuniversitat Leoben /Austria, 23rd - 26th September 2009, str. 229-230.

Summary data for teacher's scientific or art and professional activity:

Quotation total :	7			
Total of SCI(SSCI) list papers :	14			
Current projects :	Domestic :	2	International :	0



UNIVERSITY OF NOVI SAD

FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Traffic and Transport Engineering

Standard 10. Organizational and Material Resources

In order to perform the study program the appropriate human, spatial, technical and technological, library and other resources have been provided that comply with the character of the study programme and the planned number of students. Instruction in the programme Traffic and Transport Engineering is carried out in two shifts ensuring 2m² of space per student.

Classes are held in lecture halls, classrooms and specialised laboratories. The library houses have more than 100 library units relevant to the performance of Traffic and Transport Engineering study programme. All the courses of the study programme of Traffic and Transport Engineering are covered with adequate course literature, course books, and additional material which is available in time and in insufficient quantities for the regular teaching process. At the same time, adequate information and support has been provided.

The Faculty has a library and a reading room and ensures a place for every student in the lecture hall, classroom and laboratory.



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Traffic and Transport Engineering

Standard 11. Quality Control

The quality control of the study programme is performed regularly and systematically through self-evaluation and external quality control. A long standing tradition of student survey should be emphasised here.

The quality control process is conducted through:

- end of the term students survey for each course
- survey of the graduating students at the graduation regarding the quality of the study programme and the logistic support. In addition, the conditions for studying (classroom tidiness and neatness, etc...) are also evaluated.
- survey of the students at the end of the school year. At this point the students evaluate logistics support.
- survey of the student when enrolling a new school year. Here the students evaluate the study program at the year which they have previously completed.
- survey of the teaching and non-teaching staff on the quality of the study programme and its logistic support. Here the work of the Dean`s office, registrar`s office, library, and other services at the Faculty is evaluated. In addition, the conditions for studying (classroom tidiness and neatness, etc...) are also evaluated.

The quality of the study programme is monitored by a committee formed by the heads of all chairs involved in the study programme and one student.



UNIVERSITY OF NOVI SAD

FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Traffic and Transport Engineering

Standard 12. Distance Education

Distance learning is not provided for.