

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Postal Traffic and Telecommunications



STUDY PROGRAMME ACCREDITATION MATERIAL:

POSTAL TRAFFIC AND TELECOMMUNICATIONS

MASTER ACADEMIC STUDIES

Novi Sad 2012.

Prevod sa srpskog jezika:

Jelisaveta Šafranj

Ivana Mirović

Marina Katić

Vesna Bodganović

Dragana Gak

Ličen Branislava



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



Content

00. Introduction			 	
01. Programme Structure			 	
02. Programme Objectives			 	
03. Programme Goals			 	
04. Graduates` Competencies			 	
05. Curriculum			 	
Table 5.2 Course specificati	ion		 	
Application of Digital Telecommunication	al Signal Processing in		 	
Next Generation Te	elecommunication Networks	<u>3</u>	 	
New Technologies Traffic	and Services in Postal		 	
Computer Modellin	g and Simulation		 	
Professional Interna	ship		 	
Models of Postal N	etwork Management		 	
Information and Co	mmunication Theory		 	
Electronic postal se	ervices		 	
E-Business			 	
Information system resource planing	s for managing Enterprise		 	
Studijski istraživačkosnovama - master	rada		 	
	efence of Master Thesis		 	
	ation system in traffic		 	
	io Engineering in Traffic		 	
Traffic Forecasts			 	
Postal logistics cen			 	
06. Programme Quality, Contempor Compliance07. Student Enrollment	raneity and International		 	
08. Student Evaluation and Progres	<u>55</u>		 	
09. Teaching Staff			 	
Xu Z. Ming 9.1. Science, arts and profe	ssional qualifications		 	
	SSIONAL QUANNICATIONS		 	
Xu Z. Ming	2		 	
Basarić B. Valentin	<u>a</u>		 	



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



Content

Čongradac D. Velimir	
Delić D. Vlado	
Erdeljan M. Aleksandar	
Kranjac M. Mirjana	
Kujačić D. Momčilo	
Lalić P. Bojan	
Lendak I. Imre	
Nikoličić S. Svetlana	
Petrović S. Vladimir	
Sečujski S. Milan	
Simić S. Dragan	
Stefanović D. Čedomir	
Šarac D. Dragana	
Šećerov E. Emil	
Šenk I. Vojin	
Trpovski V. Željen	
Vukobratović V. Dejan	
10. Organizational and Material Resource	es
11. Quality Control	
12. Distance Education	



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

Study Programme Accreditation



Postal Traffic and Telecommunications



Programme name	Postal Traffic and Telecommunications
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, proffesional 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	16
Planned number of students to be enrolled in this programme	32
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
Web address containing programme information	http://www.ftn.uns.ac.rs



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Postal Traffic and Telecommunications



Standard 00. Introduction

The study program of graduate academic studies in Postal Traffic and Telecommunications is a continuation of the study programme of undergraduate studies of Postal Traffic and Telecommunications at the Faculty of Technical Sciences at the University of Novi Sad. It was jointly established by two departments: Department of Traffic Engineering and Department of Electrical Engineering.

The traditional division into scientific and educational areas has resulted in a situation in which engineers from different disciplines do not understand each others when working on the same project as well as in the lack of knowledge necessary for the realization of complex systems found in today's practice. Engineers coming from different backgrounds when discussing a particular problem "do not speak the same language". Each of the professions is aware only of its point of view. Since postal and telecommunication systems are increasing in number, complexity and level of sophistication, their design requires the knowledge of postal traffic and telecommunications as well as the knowledge related to management, design and programming of postal and telecommunication systems.

For that reason postal traffic and telecommunication 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 telecommunications, acquire the necessary theoretical knowledge as well as to master the practical professional topics related to the realization of modern postal and telecommunication systems, acquire the ability to integrate the necessary knowledge and apply it in a particular situation and to have an introduction to research work during this study programme.



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Postal Traffic and Telecommunications



Standard 01. Programme Structure

The name of the study program is Master Academic Studies of Postal traffic and telecommunications . The academic title acquired is the Master's degree in Traffic Engineering. The outcome of the learning process is the knowledge which enables students to use the professional literature, apply the knowledge to the problems encountered in their professional work, as well as to continue their education, in case the students decide to do so. The requirements for admission to this study programme are a Bachelor's degree worth at least 240 ECTS and a successfully passed entrance examination.

Application procedures, grading and registration of candidates are defined in the Regulations of Enrollment at the Faculty level.

Study programme of the Master Academic Studies of Postal traffic and telecommunications lasts for one years with a credit value of 60 ECTS. Students have obligatory and elective courses, professional practice and Diploma thesis. Obligatory courses provide students with the fundamental knowledge in the field of postal traffic and telecommunications, while elective courses enable acquisition of knowledge in the field which suit their personal inclinations. Elective courses are elected from the group of suggested courses, thereby the preconditions for the attendance of the elected course have to be met. The content of each course is prepared with the aim to provide students with the opportunity to deal with specific issues in the field of postal traffic and telecommunications. Each course lasts one semester and is valued credit value of each course presented in accordance with the European Credit Transfer System (ECTS). The course consists of lectures and practice. During the lectures theory is presented using the adequate didactic tools, but students are also presented with the research trends in the specific field. During practice, which accompanies lectures, students work on the specific designing problems or research topics dealing with the field of study, thus coming to direct contact with the matter being taught. Practice may be auditory, laboratory, computer and computing. Practice in basic courses directly related to the postal traffic and telecommunications issues are consultative and are based on the personal contact between the lecturer and the student. Part of the practice could be done outside the Faculty with an objective to improve the educational process. The size of the group is determined depending on the practice characteristics. If individual contact between the professor and the student is necessary for the lecture organization, practice is then organized in small groups, with a significant number of hours. This is especially valid for the basic courses dealing with the issues of postal traffic and telecommunications, or research problems in the field of postal traffic and telecommunications. Student obligations in the lectures may consist of writing the term paper, essays, designing problems, term and graphic work in accordance with the course needs, where each student's activity during the teaching process is monitored and assessed according to the rules adopted at the Faculty level. The number of obtained credits is presented according to the unique methodology and it represents the workload per student. Each course is worth certain number of ECTS credits, and the studies are completed when the student fulfils all obligations predicted by the study programme and collects at least 60 ECTS in the process.



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES Postal Tr

Postal Traffic and Telecommunications



Standard 02. Programme Objectives

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

The study programme Postal Traffic and Telecommunications is designed to ensure the acquisition of competencies which are socially justified and useful. 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 world wide.



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES Postal Traffic and Telecommunications



Standard 03. Programme Goals

The aim of the study programme is to achieve competence and academic skills in the field of Postal traffic and telecommunications. 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 in-depth knowledge in the field of postal traffic and telecommunications which can be applied to the areas of exploitation, organization, automation of postal and telecommunication systems as well as in the enhancement of these systems and the services they provide.

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, development of the society as a whole and environmental protection. The aim of the study programme is also the education of researchers proficient in teamwork, the development of skills for communicating and transferring their own knowledge to the professional and general public.



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Postal Traffic and Telecommunications



Standard 04. Graduates` Competencies

Students with Master's degree in Postal traffic and telecommunications 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 behaviour 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 postal traffic and telecommunications 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 judgement on the basis of available information which include reflection on social and ethical responsibilities associated with applying their knowledge and judgements;
- -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 Postal traffic and telecommunications 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, organising, and managing postal and telecommunication 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 Postal traffic and telecommunication 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 given to developing skills for teamwork and development of professional ethics.



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Postal Traffic and Telecommunications



Standard 05. Curriculum

The curriculum of graduate academic studies in Postal Traffic and Telecommunications 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 postal traffic and telecommunications. 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 Postal Traffic and Telecommunications 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 defence 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 defence. The final grade is based on the assessment of the theoretical – methodological preparation and the evaluation of the submitted work and its defence. 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.



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

Study Programme Accreditation



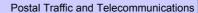




Table 5.2 Course specification

Application of Digital Signal Processing in Telecommunic					mmunications		
Course id:	S0151						
Number of ECTS:	4						
Teachers:		Delić D. '	Vlado, Sečujski S. Milan				
Course status: Mandatory							
Number of active tead	hing classe	es (weekly	')				
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:		
3	1		1	0	0		
B 88							

Precondition courses

1. Educational goal:

The educational aim of this course is to provide students with the fundamental knowledge on digital signal processing and its application in telecommunications. The objective is that students become familiar with digital as well as analogue signals and systems for their processing. It is necessary to learn about digital signals in frequency domains, digital filters and methods for their design.

2. Educational outcomes (acquired knowledge):

During the lectures the students are introduced to main algorithms for signal processing in discrete time and the most important transformations of discrete signals. The central part of the course is given to the rapid Fourier transformation. Digital filters are introduced via concrete examples, and then the students learn the basic methods for their design using appropriate software tools. Based on the acquired knowledge, the students will be able to analyse the set problem, select the appropriate digital filter class and optimal design method, design and implement a digital filter. In practical classes the students will gain experience with the Matlab DSP Toolbox. The students will know to estimate and calculate the basic parameters of a digital filter. They will be able to identify and qualify potential problems in digital filter implementation and to find solution. Throughout the course there will be examples of applications in telecommunications

3. Course content/structure:

Practical aspects of selection theorem. Transformations of discrete signals and links between them (ZT, FTD, DFT). Fast FT and fast convolution. Examples of digital FIR and IIR filters and their characteristics. Main methods for digital filter design. Applications in telecommunications.

4. Teaching methods:

Througout the course, lecture classes (3 hours a week) are supported by corresponding auditory and computer practice classes (hour each). The lectures given by subject professor use PowerPoint presentations available to students in pdf format During the auditory practice tutorials, attention is given to solving less complicated tasks on spectral analysis of digital signals and designing digital filters. The whole material is suppoterd by practice classes at the Computer Center at the Faculty of Technical Sciences where students obtain practical experience in the work with software tools for digital signal processing. Preparation for practice classes and homework assignments are carried out through Web portal og the Chair using specially created on-line tasks which do not require special previous knowledge. The obtained theoretical knowledge is tested during the semester in the form of colloquium and practical knowledge is verified through design and defence of short project and homewor

	Knowledge evaluation (maximum 100 points)										
	Pre-examination obligations		Mandatory	Points	Final ex	kam	Mandatory	Points			
Test			Yes	30.00	Written part of the exam	- tasks and theory	Yes	70.00			
	Coloquium exam No										
	Literature										
Ord.	Author		Title			Publishe	r	Year			
1,	Ljiljana Milić i D. Dobrosavljević	"Uvod	u digitalnu ol	bradu sigr	nala"	ETF, Beograd		1995			
2,	Milan Sečujski, Vlado Delić, Nikša Jakovljević, Igor Radić	"Zbirka	"Zbirka zadataka iz digitalne obrade signala"			FTN, Novi Sad		2007			
3,	Vlado Delić i dr.		ortala Katedr		on-line vežbe preko omunikacije i obradu			2003			



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

Study Programme Accreditation

Postal Traffic and Telecommunications



Table 5.2 Course specification

MASTER ACADEMIC STUDIES

Course:								
Course id:	S0152		Next Generation Telecommunication Networks					
Number of ECTS:	4							
Teacher:		Šećerov	E. Emil					
Course status:		Mandatory						
Number of active tead	hing classe	es (weekly	r)					
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:			
2	2	2	0	0	0			
Precondition courses			None					

1. Educational goal:

Learning about the function, architecture and services of next generation networks.

2. Educational outcomes (acquired knowledge):

The students are able to analyze and design services, topology and signalization of next generation networks. Students will become familiar with the quality of service of next generation networks.

- 3. Course content/structure:
- -Standards for audio and video signal coding Transmission of speech and video over IP network, RTP, RTCP protocols Speech transmission over IP network, VoIP IP multimedia subsystem: IMS H323: basics, architecture and signalization SIP protocol: basics, architecture and signalization H248/MEGACO architecture; basics, architecture and signalization Connecting networks with commutation circuit with next generation networks: SIGTRAN protocol Architecture and signalling protocols of third generation mobile networks: (UMTS, mobile Internet) Quality of service in third generation networks, Security in third generation networks Services and applications of next generation networks
- 4. Teaching methods:

Lecture and practice classes.

Knowledge evaluation (maximum 100 points)										
Pre-examination obligations		Mandatory	Points	Final exam		Mandatory	Points			
Project	Project		Yes	30.00	Theoretical part of the exam		Yes	70.00		
	Literature									
Ord.	Author		Title			Publishe	r	Year		
1,	Daniel Collins	Carrie	Carrier Grade Voice Over IP					2000		
							-			



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Postal Traffic and Telecommunications



Table 5.2 Course specification

Course:									
Course id:	S0153		New Technologies and Services in Postal Traffic						
Number of ECTS:	5								
Teachers:		Kujačić D	Kujačić D. Momčilo, Šarac D. Dragana						
Course status:	status: Mandatory								
Number of active tead	hing classe	es (weekly)						
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:				
2	2	2	0	0	0				
Precondition courses			None						

1. Educational goal:

Acquiring knowledge about new services in postal traffic and technologies which support their development.

2. Educational outcomes (acquired knowledge):

Knowledge about new services employed in successful postal centres and mastering new technologies which support the development of new services.

3. Course content/structure:

New technologies as a generator of growth of traditional postal services and a prerequisite for postal service being able to perform other service in addition to its basic activities. Post net – computer networks. Geo computer systems and their application in locating post offices and determining delivery areas. Centres for electronic commerce. Systems for tracing mail. Franchising in postal service. Expansion of network and increasing the number of services. Hybrid mail. Hybrid mail subsystems. Post express service. Direct mail service. Catalogue sales. Post and forwarding services. Logistics in postal systems. E-business and postal systems. Virtual business concept. B2B model characteristics. B2C model characteristics.

4. Teaching methods:

Lectures and practice classes.

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					
Lecture attendance	Yes	5.00	Oral part of the exam	Yes	50.00					
Term paper	Yes	20.00								
Literature										

Ord.	Author	Title	Publisher	Year
1,	Momčilo Kujačić	Nove tehnologije i usluge u poštanskom saobraćaju	FTN Izdavaštvo	2012
2,	Momčilo Kujačić	Poštanski saobraćaj	FTN Izdavaštvo	2005
3,	časopis	Postal tehnology		2005
4,	Zbornici radova	Simpozijumi o novim tehnol.u pošt. i telekom. saobr. "PosTel"	Saobraćajni fakultet Beograd	2005



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

Study Programme Accreditation

Postal Traffic and Telecommunications



Table 5.2 Course specification

Course:									
Course id:	S054		Computer Modelling and Simulation						
Number of ECTS:	5								
Teachers:		Čongrad	Congradac D. Velimir, Erdeljan M. Aleksandar						
Course status:		Mandatory							
Number of active tead	ching classe	es (weekly	')						
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:				
2	2	2 0		0	0				
Precondition courses			None						

1. Educational goal:

The aim is to gain knowledge about theoretical and practical basis of digital system modelling and simulation.

2. Educational outcomes (acquired knowledge):

The acquired knowledge can be used in solving practical engineering problems, and also forms a basis for further study of engineering subjects. .

3. Course content/structure:

Position and role of modelling and simulation, practical applications. Theory of modelling and simulation. Examples of forming models. Mathematical models of time continuous systems. Simulation and simulation languages. Matlab programming environment.: variables, operations with matrices, operations and functions, polynomials, programming solution of ordinary differential equations. Simulation of static and dynamic systems — Simulink. Mathematical and simulation models of time discrete systems.

4. Teaching methods:

The examination is written and oral. The written part is eliminatory. The final grade is formed on the basis of homework assignments, computer practice, written and oral part of the examination.

Knowledge evaluation (maximum 100 points)									
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points				
Complex exercises	Yes	5.00	Oral part of the exam	Yes	30.00				
Complex exercises	Yes	5.00	Practical part of the exam - tasks	Yes	40.00				
Complex exercises	Yes	5.00							
Project task	Yes	15.00							

		Literature		
Ord.	Author	Title	Publisher	Year
1,	D. Ivetić	Struktirani pristup u programiranju: inženjering, algoritmi i programski jezici Paskal i C	Fakultet tehničkih nauka	2005
2,	D Obradović	Osnovi računarstva	Fakultet tehničkih nauka	2000
3,	A. Erdeljan, D. Čapko	Štampani materijal koji pokriva predavanja i vežbe		2005
4,	Latinka Ćalasan, Menka Petkovska	MATLAB i dodatni moduli Control System Toolbox i SIMULINK	Mikro knjiga, Beograd	1995
5,	Duane Hanselman, Bruce Littlefield	Mastering MATLAB 6 - A Comprehensive Tutorial and Reference	Prantice Hall, ISBN: 0-13- 019468-9	2001
6,	C.M.Close, D.K.Frederick, J.C.Newell	Modeling and Analysis of Dynamic Systems	John Wiley & Sons, Inc.	2002

TAS STUDIO RESERVED TO THE PERSON OF THE PER

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Postal Traffic and Telecommunications



Table 5.2 Course specification

Course:			_		
Course id:	S055		Pro	fessional Internship	
Number of ECTS:	2				
Teachers:					
Course status:		Mandato	ry		
Number of active tead	hing classe	es (weekly)		
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:
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 F							Points		
ation		Yes	10.00	Oral part of the exam		Yes	70.00		
Term paper Yes 20.00									
Literature									
Ord. Author Title						r	Year		
1, organizacija gde se obavlja interna akta organizacije u kojoj se obavlja stručna praksa praksa						2012			
	Author organizacija gde se obavlja	Pre-examination obligations ution per Author organizacija gde se obavlja interna	Pre-examination obligations Mandatory Ition Yes Per Yes Author Organizacija gde se obavlja interna akta organizacija	Pre-examination obligations Author Author Pre-examination obligations Mandatory Points Yes 10.00 Yes 20.00 Liter Author Title organizacija gde se obavlja interna akta organizacije u ko	Pre-examination obligations Mandatory Points Final exampler Yes 10.00 Oral part of the exampler Yes 20.00 Literature Author Title organizacija gde se obavlja interna akta organizacije u kojoj se obavlja stručna	Pre-examination obligations Mandatory Points Final exam tition Yes 10.00 Oral part of the exam per Yes 20.00 Literature Author Title Publishe organizacija gde se obavlja interna akta organizacije u kojoj se obavlja stručna	Pre-examination obligations Mandatory Points Final exam Mandatory Ition Yes 10.00 Oral part of the exam Yes Per Yes 20.00 Preserved Pres		



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Postal Traffic and Telecommunications



Table 5.2 Course specification

Course:									
Course id: S1I583 Models of Postal Network Management									
Number of ECTS: 5									
Teachers: Kujačić D. Momčilo, Šarac D. Dragana									
Course status:		Mandato	ry						
Number of active tead	ching classe	es (weekly)						
Lectures:	Practical	Classes: Other teaching types: Study research work: Other classes:							
2	2	2	0	0	0				

Precondition courses

1. Educational goal:

Acquiring specific sophisticated knowledge about organizing and managing postal and logistics network using modern technologies.

2. Educational outcomes (acquired knowledge):

Students acquire the knowledge about the basic principles in the organization and management of postal distribution and retail network.

3. Course content/structure:

Experience of foreign postal services in the transport and handling of mail. Automatic handling and separation of letters and parcels. Controlling the quality of postal traffic according to international standards. Use of postal address code. Systems for electronic mail tracking. Defining the elements of quality delivery. Organization and management of delivery areas using geo information systems. Criteria for organizing a delivery area. Concert of separating delivery based on type of service. Special delivery. Organization of retail postal network in rural and urban areas. Optimal organization of rural rectal network. Legal framework. Elements for determining representative commission. Economic effects of the methods applied. Reengineering of urban retail networks. Reengineering model inputs. Analytic phase of the model. (Application of Geo information system, Location analysis, Market Analysis, Service request forecast). Franchise as a tool in model of reengineering urban retail networks.

4. Teaching methods:

Lectures. Practice classes, consultations and visits to selected posta traffic facilities.

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				
Lecture attendance	Oral part of the exam	Yes	50.00						
Term paper	Yes	20.00							

		Literature		
Ord.	Author	Title	Publisher	Year
1,	Momčilo Kujačić	Poštanski saobraćaj	Fakultet tehničkih nauka	2005
2,	Ivan Bošnjak	Tehnologija poštanskog prometa 2	Fakultet prometnih znanosti, Zagreb	1999
3,	Časopis	Postal tehnology		2005
4,	Zbornici radova	Simpozijumi o novim tehnol.u pošt. i telekom. saobr. "PosTel"	Saobraćajni fakultet, Beograd	2005
5,	Časopis	Savremena pošta	JP PTT Saobraćaja "Srbija"	2005
6,	Šarac D	Modeli upravljanja poštanskom mrežom	U pripremi - postoji u vidu skripte	2013



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

Study Programme Accreditation

Postal Traffic and Telecommunications



Table 5.2 Course specification

MASTER ACADEMIC STUDIES

Course id: EK521 Information and Communication Theory							
Number of ECTS: 5							
Teachers: Petrović S. Vladimir, Sečujski S. Milan, Šenk I. Vojin, Trpovski V. Željen							
Electiv	e						
Number of active teaching classes (weekly)							
Practical classes	classes: Other teaching types: Study research work: Other classes:						
2	1 0						
	Petrovi Elective ing classes (week	Petrović S. Vladimir, Sečujski S. Milan, Elective ing classes (weekly)	Petrović S. Vladimir, Sečujski S. Milan, Šenk I. Vojin, Trpovski V. Željen Elective ing classes (weekly)				

Precondition courses

1. Educational goal:

Becoming familiar with the theorems of the information theory and reachable limits of communication.

2. Educational outcomes (acquired knowledge):

Students acquire the information theory elements and are able to apply them in the design of communication systems and devices.

3. Course content/structure:

Source coding (statistical coding), AER lemma, Kraft-McMillan lemma, Shannon's first theorem, damaged data source compression; Protection coding (information channel capacity and calculation methods, cascaded channels, optimal docoding). Performance criteria, channel code capacity, features of a binary symetrical channel, Shannon's second theorem, typical sequence access; Cryptographic coding (the unique point, basic cryptographic algorithms), geometrical approach to the design and analysis of transmitters and receivers (vector channels, multivector channels, decision making, wave channels, Gram-Schmidt's process, signal synthesis, geometrical interpretation, corelational receiver, adaptive filter, irrelevant data in adaptive filtering, error probability, error bounds on the error probability, the transmission speed, signal energy per bit of information, the impact of bandwidth. The limiting relationship between signal and noise (-1.6 dB); multi-user information theory.

4. Teaching methods:

Lectures. Practice. Powerpoint.

Thomas

Thomas M. Cover, Joy A.

	Knowledge evaluation (maximum 100 points)										
Pre-examination obligations Mandatory Points Final exam Mandato						Mandatory	Points				
Test			Yes	10.00	Oral part of the exam		Yes	70.00			
Test			Yes	10.00							
Test Yes 10.00											
	Literature										
Ord. Author Title Publisher					Year						

Wiley-Interscience

1991

Elements of Information Theory



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES Postal Traffic and Telecommunications



Table 5.2 Course specification

Course:							
Course id:	S1I593		Elec	tronic postal services			
Number of ECTS:	5						
Teachers: Kranjac M. Mirjana, Kujačić D. Momčilo, Šarac D. Dragana							
Course status:		Elective	Elective				
Number of active tead	ching classe	es (weekly)				
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:		
2	0						
Precondition courses	-		None				

1. Educational goal:

Acquiring knowledge about electronic postal services and their development.

2. Educational outcomes (acquired knowledge):

Knowledge of electronic services that provide efficient postal administration and mastering the technologies that support the development of these services.

3. Course content/structure:

Public Internet access point in post offices Web information on services and tariffs Postal electronic mailbox, Online direct mail, Postal registered electronic mai, Electronic stamp, Customized electronic stamps, Electronic postage stamps, Electronic signature, E-telegram, E-cards, e-delivery confirmation, ON-LINE change of address on shipments, Electronic applications for postal service, postal m-services

4. Teaching methods:

Lectures and practice.

Knowledge evaluation (maximum 100 points)										
Pre-examination obligations Mandatory Points Final exam Mandatory Points										
Lecture attendance Yes 10.00 Written part of the exam - tasks and theory Yes 30.00										
Term paper Yes 20.00 Oral part of the exam Yes 40.00										
Literature										

1,Kujačić MNove tehnologije i usluge u poštanskom saobraćajuFTN Novi Sad20122,časopisPostal Technology International20123,časopisUnion PostalUniversal Postal Union2012	I	Ord.	Author	Title	Publisher	Year
-, tareful		1,	Kujačić M	Nove tehnologije i usluge u poštanskom saobraćaju	FTN Novi Sad	2012
3, časopis Union Postal Universal Postal Union 2012		2,	časopis	Postal Technology International		2012
	ſ	3,	časopis	Union Postal	Universal Postal Union	2012



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Postal Traffic and Telecommunications



Table 5.2 Course specification

Course:								
Course id:	S1I594			E-Business				
Number of ECTS:	5							
Teachers:		Xu Z. Ming, Lalić P. Bojan						
Course status:		Elective	Elective					
Number of active tead	hing classe	es (weekly	r)					
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:			
2	,	1 1 0						
Precondition courses			None					

1. Educational goal:

This course introduces students to principles of e-commerce, models and methods, technologies in e-commerce. Apart from that students will gain experience with current programmes necessary to an engineer in management in the field of e-commerce.

2. Educational outcomes (acquired knowledge):

Active participation in lectures enables students to acquire theoretical and practical knowledge necessary for doing business and taks engineers and managers do in the field of e-commerce. Apart from that students will gain experience with current programmes necessary to an engineer in management in the field of e-commerce.

3. Course content/structure:

Fundamental definitions in the field of e-commerce. Principles and methods of e-business. Business information systems (BIS) as a foundation of e-commerce. Basics of business information systems development. System analysis and design of BIS. Managing business information systems. E-markenting. Methods and procedures in promotions and presentations of products and services. Business models of e-commerce. Internet as an infrastructure.

4. Teaching methods:

Oral presentation, written hand outs for practical classes, laboratory work and visits to modern business systems .

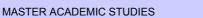
Knowledge evaluation (maximum 100 points)									
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points				
Computer exercise attendance	Yes	5.00	Oral part of the exam	Yes	50.00				
Exercise attendance	Yes	5.00							
Project	Yes	30.00							
Test	Yes	10.00							

		Literature		
Ord.	Author	Title	Publisher	Year
1,	B.Lalić	Elektronsko poslovanje	Fakultet tehničkih nauka	2008
2,	K.C.Laydon, C.G. Traver	E-commerce, business, technology, society		2007
3,	Deitel	E-Business and E-Commerce for Managers	Steinbuhler	2001
4,	E. Turban	Electronic Commerce, A managerial perspective		2006
5,	S.Certo, M. Certo	Finding the eBusiness in your Business		2001
6,	D.Chaffey	E-Business and E-Commerce Management		2004
7,	Davis	E-Commerce Basics, Technology foundations and e- business applications		2003
8,	D.V.Tesone	Hospitality Information Systems and E-commerce		2006
9,	F.Lovelock	Global E-commerce		2003
10,	M. Lutovac, D. Tošić	Internet biznis plan		2007
11,	P.Bocij, D Chaffey, A. Greasley	Business Information Systems, technlogy, development and management for e-business		2006



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

Study Programme Accreditation



Postal Traffic and Telecommunications



Table 5.2 Course specification

Course:		Infor	Information systems for managing Enterprise resource planing				
Course id:	SI593				от от ришину		
Number of ECTS:	5						
Teacher:	Simić S. Dragan						
Course status: Elective							
Number of active tead	hing classe	es (weekly	′)				
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:		
2		1		0	0		
Precondition courses	-		None				

1. Educational goal:

Acquisition of basic knowledge about the importance and role of integrated information systems for company's resources management with special considerations on postal services companies.

2. Educational outcomes (acquired knowledge):

Acquiring theoretical and practical knowledge and skills concerning the role of information systems for planning and management of the resources of the entire company, with special attention on airlines postal services.

3. Course content/structure:

ERP - Enterprise Resource Planning in the company. Business information system. Implementation phase of ERP. Commercial software packages for resource management of large companies. Selection of H / S package. The choice of modules. Adjustment and calibration. Introduction to operations and maintenance. The most common modules in the ERP system. Financial management. Service management. Supply chain management. CRM. HR. Sales. Marketing.

4. Teaching methods:

Lectures, exercises, computer exercises and continuous individual work.

Knowledge evaluation (maximum 100 points)										
Pre-examination obligations Mandatory Points Final exam Mandatory Poir										
Lecture attendance	Yes	5.00	Written part of the exam - tasks and theory	Yes	50.00					
Project	Yes	25.00								
Test										

		Literature		
Ord.	Author	Title	Publisher	Year
1,	Paul Beynon-Davies	Business Information Systems	Palgrave Macmillan	2009
2,	Kamran H. Meer	Best Practices in ERP Software Applications: Accounting, Supply Chain Planning, Procurement, Inventory	iUniverse	2005
3,	Grant Norris, James R. Hurley, Kenneth M. Hartley, John R. Dunleavy, John D. Balls	E-Business and ERP: Transforming the Enterprise	John Wiley & Sons	2000



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES Postal Traffic and Telecommunications



Table 5.2 Course specification

Course:		Studijski istraživački rad na teorijskim osnovama - master rada				
Course id:	SIM01P		,	,		
Number of ECTS:	7					
Teachers:						
Course status:		Mandato	ry			
Number of active teac	hing classe	es (weekly)			
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:	
0	C)	0	7	0	
Precondition courses			None			

1. Educational goal:

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.

2. Educational outcomes (acquired knowledge):

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.

3. Course content/structure:

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.

4. Teaching methods:

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.

	Knowledge evaluation (maximum 100 points)										
	Pre-examination obligations Mandatory Points Final exam						Mandatory	Points			
Term pa	Term paper Yes 50.00 Oral part of the exam						Yes	50.00			
	Literature										
Ord.	Author			Title	•	Publishe	er	Year			
1,	grupa autora	časopisi sa Kobson liste					sve				
2,	2, grupa autora časopisi, diplomski i master radovi						sve				



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES Postal Traffic and Telecommunications



Table 5.2 Course specification

Course:										
Course id:	S0I510		Preparation and Defence of Master Thesis							
Number of ECTS:	15									
Teachers:										
Course status:		Mandatory								
Number of active tead	ching classe	es (weekly	′)							
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:					
0	()	0	0	10					
Precondition courses	•		None							

1. Educational goal:

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.

2. Educational outcomes (acquired knowledge):

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.

3. Course content/structure:

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.

4. Teaching methods:

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.

Knowledge evaluation (maximum 100 points)							
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points		



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Postal Traffic and Telecommunications



Table 5.2 Course specification

Course:										
Course id:	S1595		Geographic	information system in traf	ffic					
Number of ECTS:	4									
Teacher:		Kranjac N	ranjac M. Mirjana							
Course status:		Elective								
Number of active tead	hing classe	es (weekly	′)							
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:					
2	2	2	1	0	0					
Precondition courses	-		None							

1. Educational goal:

The main goal is to acquire the basic knowledge about geo information systems (GIS), to gain knowledge about the development and analysis of GIS related applications, especially in relation to traffic and telecommunications. Additional goal is learning about techniques and tools for processing, managing and controlling geographic data, GIS technology, principles on which global positioning satellite systems and inertial navigation systems work, technology for electronic data exchange in postal traffic, radio frequency identification technology, and other applications in traffic. Understanding the advantages of integrating systems for object positioning with geo information systems.

2. Educational outcomes (acquired knowledge):

Knowledge about basic principles of GIS including structure and quality of data. Theoretical basis and practical experience about GIS in traffic and telecommunications, as well as practical knowledge about GPS functioning related to object positioning and errors in measurement and positioning. Another outcome is the knowledge about new technology for acquisition, collecting, storing and processing images and data, integration of GPS and GIS systems, as well as knowledge about analysis and display of spatial data.

3. Course content/structure:

Introduction to GIS. Applications. Sources of GIS data. Data and image acquisition. Analysis of spatial data (methods, examples). Data types and structures. Representation of geo information data and information with main applications. Sensor information and GIS. Visualization of data with maps. GIS concepts. Use of program software. GIS: maps and spatial information. Interpolation techniques with GIS. Cartography. Cartographic concepts. Thematic mapping. Satellite images and their processing. The role of remote sensing and GPS. Positioning, visibility and availability of satellites in GPS systems. Position determination, signal error, and stochastic models in GPS systems. Formulating a problem of evaluating the state of linear (discrete and continuous) stochastic systems. Kalman filter. Fundamentals of theory of determining the state of nonlinear stochastic systems. Extended Kalman filter. Kalman filtering and its application to real GPS/INS problems. Differential GPS. GPS inertial navigation and integration. Application of GPS in traffic and transportation. Basic GIS theory. Integration of GPS and GIS systems. Electronic data exchange. Radio frequency identification. Optical text recognition.

4. Teaching methods:

Lectures, auditory and computer practice.

Knowledge evaluation (maximum 100 points)										
Pre-examination obligation	Mandatory	Points	Final ex	kam	Mandatory	Points				
Exercise attendance		Yes	5.00	Written part of the exam	- tasks and theory	Yes	60.00			
Lecture attendance		Yes	5.00							
Project task Yes			30.00							
Literature										

ı			Literature		
	Ord.	Author	Title	Publisher	Year
I	1,	T.Bernahrdsen	GIS: an introduction	John Wiley and Sons	2002



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Postal Traffic and Telecommunications



Table 5.2 Course specification

Course:											
Course id:	S1596		Acoustics and	d Audio Engineering in Tra	affic						
Number of ECTS:	4										
Teacher:		Delić D. \	Pelić D. Vlado								
Course status:		Elective									
Number of active tead	ching classe	es (weekly	′)								
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:						
2	,	1	1	0	0						
Precondition courses	· ·		None								

1. Educational goal:

Introduce aspects of acoustics that are essential to understanding the measurement and control of traffic noise, as well as the audio technology used in traffic navigation and radio communication. Describe the nature of sound and present the basic theory of sound generation and propagation of sound waves. Explain what and how people can hear and how they perceive different sound pressure levels and the frequency content of sound, as well as the direction of the sound source. Explain how both the transmission and perception of sound are influenced by enclosed areas such as rooms or car interior. Present the audio signals (speech, music and noise) and audio equipment for recording and playback, as well as transmission of audio signals. Study the standards and regulations on permitted noise levels and introduce the techniques of measurement, monitoring and noise protection.

2. Educational outcomes (acquired knowledge):

Students will learn how sound waves are produced and how they propagate, what a human being can hear and how sound affects humans, as well as how sound is recorded, transmitted and reproduced. They will understand the differences in the behavior of sound both indoors and outdoors. They will be able to evaluate the acoustic environment (in terms of speech intelligibility, quality of listening to music, noise level), and to select and place audio-equipment for recording of speech, music, and noise. Students will learn the standards for measurements and techniques for the suppression of traffic noise, as well as the application of both speech and audio technologies in navigation and digital radio.

3. Course content/structure:

• The physical characteristics of sound (the rules for the production and propagation of sound waves). • Sound perception and its influence on the human being (auditory area; characteristics of speech, music and noise). • Room acoustics (absorption/reverberation and their impact on sound level and intelligibility, acoustical quality of professional rooms). • Electro-acoustic transducers (microphones, loudspeakers and headphones), measurement devices, tools for audio signal analysis and processing. • Recording of audio signals (speech, music, and noise; selection and placement of microphones). • Noise (sources and ways of propagation, noise characteristics, calculating sound pressure level and noise protection methods). • Traffic noise (road, rail, and aircraft noise; noise monitoring and mapping; traffic noise protection). • Instrumentation for noise measurements and analysis (sound level meters, filters, noise spectrum (N-curves), dosimeters, software). • Speech and audio technologies in navigation systems (ASR and TTS, GPS, RDS – digital radio).

4. Teaching methods:

Lectures are conducted using Power Point presentations available to students in .pdf format. Presentations with specially created audio and video clips and animations demonstrate and illustrate key details in the lectures. The first part of the course (acoustics) is followed by auditory exercises. The second part of the course (audio engineering) is followed by exercises either in the Laboratory of Acoustics and Speech Technologies at FTN. A visit to Radio Novi Sad is arranged, where students will learn about the practical audio engineering, music and speech studios, anechoic room and audio-theater complex. The students will write a midterm paper, whose defense is one of the exam prerequisites. Independent student work is supported through the web portal of the Chair of Telecommunications and Signal Processing - www.ktios.net.

_										
Knowledge evaluation (maximum 100 points)										
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points					
Presentation	Yes	10.00	Written part of the exam - tasks and theory	Yes	50.00					
Term paper	Yes	20.00	Coloquium exam	No	20.00					
Test	Yes	10.00		•						
Test	Yes	10.00								

	Literature									
Ord.	Author	Publisher	Year							
1,	Petar Pravica, Dragan Drinčić	"Elektroakustika"	VISER Beograd	2006						
2,	Miomir Mijić	"Audio sistemi"	Akademska misao, Beograd	2011						
3,	Vlado Delić	Skripta sa predavanja	www.ktios.net	2012						

ASTRONO DE LA CONTRACTOR DE LA CONTRACTO

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Postal Traffic and Telecommunications



Table 5.2 Course specification

Course:			Troffic Forescate								
Course id:	S1I591		Traffic Forecasts								
Number of ECTS:	4										
Teacher:		Basarić E	Basarić B. Valentina								
Course status:		Elective	Elective								
Number of active tead	ching classe	es (weekly	r)								
Lectures:	Practical classes:		Other teaching types:	Study research work:	Other classes:						
2	2		0	0	0						
Precondition courses	•		None								

1. Educational goal:

Acquiring knowledge in the field of application of new mathematical 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 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. Alignment methods of transport demand and supply. Computer programs for testing and simulation of the harmonization effects of transport demand and supply.

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 ex	kam	Mandatory	Points				
e attendance		Yes	5.00	Written part of the exam	- tasks and theory	Yes	70.00				
attendance		Yes	5.00	Coloquium exam		No	20.00				
aper		Yes	20.00	Coloquium exam		No	20.00				
Literature											
Author			Title	;	Publishe	er	Year				
M.Maletin	Planira	anje saobraća	aja i prost	ora	Građevinski fakultet Beograd		2004				
Ratomir Vračarević	Planira	anje saobraća	aja -skript	a	Fakultet tehničkih nauka		2002				
D.Banister	Trans	port planning			Spon Press, London&New York		2002				
Michael A.P.T. Peter W.B. William Y	Unde	rstanding Tra	ffic Syste	m	Ashgate, England-	USA	2000				
•	e attendance attendance apper Author M.Maletin Ratomir Vračarević D.Banister Michael A.P.T. Peter W.B.	Author M.Maletin Planira Ratomir Vračarević Planira D.Banister Trans Michael A.P.T. Peter W.B.	Pre-examination obligations e attendance attendance apper Author M.Maletin Ratomir Vračarević D.Banister Michael A.P.T. Peter W.B. Mandatory Mes Author Ples Planiranje saobraća Planiranje saobraća Transport planning	Pre-examination obligations e attendance attendance apper Author Mandatory Yes 5.00 Yes 5.00 Yes 20.00 Liter Author M.Maletin Planiranje saobraćaja i prosto Ratomir Vračarević Planiranje saobraćaja -skripto D.Banister Transport planning Michael A.P.T. Peter W.B. Linderstanding Traffic System	Pre-examination obligations e attendance attendance apper Author Author Planiranje saobraćaja - skripta D.Banister Mandatory Points Final exam Planiranje saobraćaja - skripta Author Transport planning Michael A.P.T. Peter W.B. Mandatory Points Final exam Planitanje saobraćaja (Coloquium exam) Coloquium exam Literature Title Planiranje saobraćaja i prostora Planiranje saobraćaja - skripta Transport planning Michael A.P.T. Peter W.B. Linderstanding Traffic System	Pre-examination obligations e attendance	Pre-examination obligations Mandatory Points Final exam Mandatory e attendance Yes 5.00 Written part of the exam - tasks and theory Yes attendance Yes 5.00 Coloquium exam No Author Title Publisher M.Maletin Planiranje saobraćaja i prostora Građevinski fakultet Beograd Ratomir Vračarević Planiranje saobraćaja -skripta D.Banister Transport planning Michael A.P.T. Peter W.B. Mandatory Points Final exam Mandatory Yes Coloquium exam No Ro				

ASSITAS STUDIOS

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Postal Traffic and Telecommunications



Table 5.2 Course specification

Course:			5							
Course id:	S1I592		Pos	stal logistics centers						
Number of ECTS:	4									
Teacher:		Nikoličić	Nikoličić S. Svetlana							
Course status:	rse status: Elective									
Number of active tead	ching classe	es (weekly)							
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:					
2	2	2	0	0	0					
Precondition courses	-		None							

1. Educational goal:

Acquiring knowledge on postal centers like specific ones, collective-distributive logistics centers.

2. Educational outcomes (acquired knowledge):

By completing the course student will be able to: define structure of logistics processes according to the requirements of postal deliveries and goods; define the structure of logistics systems in postal logistics center; defines key logistics performances; to properly define technology and technical characteristics of the equipment in the postal - logistics flows; to approach properly on dimensioning and tehnological-physical shaping of postal logistics center.

3. Course content/structure:

Basic types and functions of logistics centers. Functions of postal logistics centers in postal network. Criteria and procedure for election of macro, meso and micro location of postal logistics centers. Analysis of postal deliveries flows and goods through postal logistic center. Structure and performances of logistical processes. Structure of functions and subsystems of postal logistics center. Requirement analysis for dimensioning logistics subsystems. Technological-physical features of postal logistics centres. Analysis on implementation of new postal services from the logistics aspect. The 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 e	xam	Mandatory	Points		
Exercis	e 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 pa	aper		Yes	20.00			-			
Literature										
Ord.	Author			Title	;	Publisher		Year		
1,	Slobodan Zečević	Robni	terminali i rol	ono-trans	portni centri	Saobraćajni fakultet Beograd		2006		
2,	Milosav Georgijević	Tehniò	ćka logistika			Zadužbina Andrejev	/ić	2011		
3,	Gordana Radivojević, Momčilo Miljuš, Milorad Vidović	nanse	Saobraćajni fakulte	t, Beograd	2007					



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Postal Traffic and Telecommunications



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, Postal Traffic and Telecommunications 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. Postal Traffic and Telecommunications study programme is comparable and coordinated with:

1. Faculty of Transport and Traffic Engineering, Zagreb



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES Postal Traffic and Telecommunications



Standard 07. Student Enrollment

The Faculty of Technical Sciences, in accordance with social demands and its resources, enrols to master academic studies of Postal Traffic and Telecommunications 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. For all applicants, Quality Commission study of master academic studies Postal Transportation and Telecommunications performance evaluation of study programs that were previously done and decide whether appropriate or not to enroll. Candidates who, in the opinion of the Commission, have completed an appropriate program of study are eligible to enroll in masters studies. Quality Commission decides whether the candidates who are eligible to take entrance examination enrollment. If Quality Commission decision on taking the entrance exam, the candidates take the exam, testing knowledge of the program of study. The final ranking of candidates for admission is based on success in previous studies, the duration of the study and achieved success on the entrance exam, as Book of Rules on Enrolment of Students to Study Programmes.



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Postal Traffic and Telecommunications



Standard 08. Student Evaluation and Progress

The final grade in each course included in this programme is formed by continual monitoring of students' accomplishments throughout the academic year and by passing the final examination.

Students master the study programme by taking examinations and thus obtaining a certain number of ECTS credits, in accordance with the study programme. Each course within the programme is worth a certain number of ECTS credits which students obtain by successfully passing the course examination. The number of ECTS credits is based on the quantity and quality of work students are required to submit during a certain course and on the Faculty of Technical Sciences` unique methodology for all study programmes. Students` success in mastering a certain course is constantly monitored during classes and is expressed in points. The maximum number of points obtained in a course is 100.

Students obtain points from a course through their work during classes, completion of the pre exam duties and taking the examination. The minimum number of points a student can obtain by fulfilling the course prerequisites during classes is 30, the maximum 70.

Each course at the study programme has a clear and transparent mode of obtaining points. The ways of obtaining points during the classes includes the number of points obtained on the basis of each individual activity during the classes or completing pre exam assignments and by passing the course examination.

The final success of students at a course is presented with a grade from 5 (fail) to 10 (excellent). The student's grade is based on the overall number of points obtained by fulfilling pre exam asignments 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.



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Postal Traffic and Telecommunications



Standard 09. Teaching Staff

For the realization of the Postal Traffic and Telecommunications 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.



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Postal Traffic and Telecommunications



Science, arts and professional qualifications

Nam	Name and last name:					Xu Z. Ming					
Acad	lemic title:					Guest Profes	sor				
	e of the inst ng date:	itution v	vhere the te	eacher works full tim	ne and	-					
Scie	ntific or art f	ield:				Proizvodni sis	stemi, organ	izacija i menadžment-strateški menađment			
Acad	lemic carie	er	Year	Institution				Field			
Acad	lemic title e	ection:	2012	Faculty of Technic	cal Sci	ences - Novi S	ad	Proizvodni sistemi, organizacija i menadžment strateški menađment			
PhD	thesis		2000					Engineering Management			
Magi	ster thesis		1993					Engineering Management			
	ichelor's thesis 1982 Glorius Sun School of Buisi Donghua University, Shanc					anghai - Shang	hai	Engineering Management			
List	of courses b	eing he	ld by the te	acher in the accredi	ted stu	udy programme	:S				
	ID Course name						Study pro	ogramme name, study type			
1.	IM1026	E-Bus	iness				(I20) Engi Studies	neering Management, Undergraduate Academic			
2.	IM1104	Strate	gic Manage	ement			(I20) Engir Studies	neering Management, Undergraduate Academic			
3.	IM1319	Platfor	ms and sys	stems for knowledge	e trans	fer	(I20) Engir Studies	neering Management, Undergraduate Academic			
4.	MBA601	Applie	d use of IT	and Internet in busi	ness		Studies	neering Management, Specialised Professional ineering Management - MBA, Specialised			
5.	IM2102	Manuf EFPS)		ategy (KAIZEN, LE <i>l</i>	AN, KA	ANBAN,	(I10) Industrial Engineering, Master Academic Studies (M50) Energy Management, Master Academic Studies (I20) Engineering Management, Master Academic Studies				
6.	IM2103	New to	echnologies	in engineering and	mana	gement	(I10) Indu	strial Engineering, Master Academic Studies neering Management, Master Academic Studies			
7.	S1I594	E-Busi	iness				` ,	stal Traffic and Telecommunications, Master			
Rer	oresentative	reffere	nces (minin	num 5, not more tha	n 10)		71044011110	Ottualoo			
1.	Nikola Zi	/lak, Ma compan	arko Ljubičio ies, TTEM	ć, Ming Xu, Bojan La	alić, Zv			nip between innovation and internationalization in ment, Sarajevo, Bosna and Herzegovina, Vol.7,			
2.	Ming Xu,	et al.: L	abour Turn	over in Apparel Retance 3, Number 1, 201			nternational	Journal of Industrial Engineering and			
3.	Ming Xu,	et al.: T	rend Chan	ging Analysis of the	Relati	onship Betwee		p Structure and the Enterprises' Financial Economic Longitude and Latitude,Vol.3, May, 200			
4.				of customer contact ity Management, Vo				ductivity in Chinese service firms, International pp. 367-389			
5.	Ming Xu,	et al.: T	he Applica	tion of SERVQUAL	Scale,	Journal of Indu	ıstry Engine	eering and Management, December 2001, pp 6-9			
6.	Ming Xu,	et al.: T	he Evaluat	ion of Innovation Ca	pabilit	y in Banks, Mo	dern Busine	ess, Vol.23, August, 2012, pp 49-52			
7.	Ming Xu, 2012, pp		Study on t	he Effect of Micro-B	Bloggin	g Comments o	n Consume	r Purchasing Behavior, China Market, Vol. 40,			
8.				ork to Make Assess ntury Bridge) 3rd 20			ment of Eco	onomic Region Based on the Outlook of Scientific			
9.	Ming Xu,	et al.: A	•	Apparel Consumption			y Students,	Journal of Donghua University (Social Science),			
10.				nt between R and C ent, July, 2006. pp 7		Basic Rule for th	ne Decision-	-making of Corporation's Management, East			
Sur	mmary data	for tead	cher's scien	tific or art and profe	ssiona	l activity:					
Quotation total : 0											
	of SCI(SS		apers :		1		0	Linternational .			
Curre	Current projects : Dome					estic :	0	International: 0			



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

Study Programme Accreditation



Postal Traffic and Telecommunications



Science, arts and professional qualifications

Name and last name:					Basarić B. Valentina					
	lemic title:					Assistant Pro				
Nam	e of the inst	itution v	vhere the te	acher works full tim	ne and	Faculty of Ted		nces -	Novi Sad	
_	ng date:					15.02.2000				
Scie	ntific or art f	ield:				Traffic Systen	ns			
Acad	lemic caries	er	Year	Institution				Field		
Acad	lemic title el	ection:	2011				Traffic Systems			
PhD	PhD thesis 2010 Faculty of Technical Sciences - Nov						ad	Traffi	c Engineering	
Magi	ster thesis		2006	Faculty of Technic	cal Scie	ences - Novi Sa	ad	Traffi	c Systems	
Bach	elor's thesis	3	1999	Faculty of Technic	cal Scie	ences - Novi Sa	ad	Traffi	c Systems	
List of courses being held by the teacher in the accredited study progran							s			
	ID Course name					Study pro	gramm	ne name, study type		
1.	S0324	Funda	mentals in	Traffic Planning			(S00) Traf		Transport Engineering, Ur	ndergraduate
2.	S0329	Traffic	Planning M	lodels			(S00) Traf Academic S		Transport Engineering, Ur s	ndergraduate
3.	S0I594	Traffic	Forecasts				(S00) Traf Studies	fic and	Transport Engineering, Ma	aster Academic
4.	S0MJ4	Planni	ng of Public	transport			(S00) Traf Studies	fic and	Transport Engineering, Ma	aster Academic
5.	S1I591	Traffic Forecasts					(S01) Post Academic S		ffic and Telecommunications	ns, Master
6.	SOP2	Transportation Demand Management					(S00) Traf Studies	fic and	Transport Engineering, Ma	aster Academic
7.	DSIM1	Traffic	Planning				(S00) Traf	fic Eng	ineering, Doctoral Academ	ic Studies
8.	DSSK3A	Resea	rch and sim	nulation of road traff	ic flow		(S00) Traf	fic Eng	ineering, Doctoral Academ	ic Studies
9.	DSSK4	Urban	planning a	nd development of t	ranspo	ort networks	(S00) Traf	fic Eng	ineering, Doctoral Academ	ic Studies
10.	DSSK6	Mainta	inable urba	in transport systems	S		(S00) Traf	fic Eng	ineering, Doctoral Academ	ic Studies
Rep	oresentative	reffere	nces (minin	num 5, not more tha	an 10)					
1.		na pute	vima 2006"						mpozijum "Prevencija saob ı Novi Sad, oktobar 2006, I	
2.				na Basarić "Uticaj na 040-2176, UDK:625			idovnu rasp	odelu r	adnih putovanja", Tehnika	3-separat
3.									gradovima", I Savetovanje 978-86-7892-083-7, UDK:6	
4.	Planiranje	e saobra	aćaja-prakti	kum sa zbirkom zad	dataka					
5.	Planiranje	e saobra	aćaja-prakti	kum sa zbirkom zad	dataka					
6.			vić, Valentir raćaja, Som		raspo	dela: formaliza	cija ili strate	gija", T	ES 2002, 5.Savetovanje o	tehnikama
7.		odnim u							a obrazovanja" IX simpoz sad, 23 i 24 oktobar 2008, I	
8.	Basarić, \	√., Jović	J., 2011.	Target modal split n	node, ⁻	Transport, Print	: ISSN:1648	3-4142,	Online ISSN:1648-3480	
9.	Model up	ravljanja	a raspodelo	m putovanja na vide	ove pre	evoza u funkcij	održivog ra	azvoja,	Fakultet tehničkih nauka N	lovi Sad, 2010
10.	Uticai sis	tema na	rkirania na	raspodelu putovani	a po vi	idovima saobra	ćaia. Fakult	tet tehr	ničkih nauka Novi Sad, 200	6
\vdash				tific or art and profe			j,			
	ation total :	.or touc		· · · · ·	0	wourtig.				
	of SCI(SS	CI) list p	apers :		0					
	ent projects		<u> </u>		Dome	estic :	1		International :	0
	_		_							



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

Study Programme Accreditation



Postal Traffic and Telecommunications



Science, arts and professional qualifications

Nam	e and last r	ama.			Čongradac D. Velimir				
	demic title:	ante.			Assistant Professor				
		titution v	vhere the te	eacher works full time and					
	ing date:	atauon V	viicio uie le	adila works full tillic affu	15.06.1998				
	ntific or art f	ield:				ntrol and Sy	ystem Engineering		
Acad	demic carie	er	Year	Institution		Field			
Acad	demic title e	lection:	2009	Faculty of Technical Scient	ences - Novi S	nces - Novi Sad Automatic Control and System Engi			
PhD	thesis		2009	Faculty of Technical Science	ences - Novi S	ad	Automatic Control and System Engineering		
Magi	ister thesis		2000	Faculty of Technical Science	ences - Novi S	ad	Automatic Control and System Engineering		
Bach	nelor's thesi	s	1998	Faculty of Technical Science	ences - Novi S	ad	Automatic Control and System Engineering		
List	of courses b	eing he	ld by the te	acher in the accredited stu	idy programme	s			
	ID	Course	e name			Study pro	gramme name, study type		
1.	AU43	Funda	mentals of	Biomedical Engineering		Studies	medical Engineering, Undergraduate Academic nputing and Control Engineering, Undergraduate Studies		
2.	AU50	Proces	ss Control b	y Computer		Academic			
							asurement and Control Engineering, uate Academic Studies		
3.	GI005	Intellig	ent Control	Systems		(GI0) Geo Studies	desy and Geomatics, Undergraduate Academic		
4.	Z410A	Geosp	atial techno	ologies and systems		(Z20) Environmental Engineering, Undergraduate Academ Studies			
5.	Z410	Geoinf engles		tehnologije i sistemi(uneti	naziv na	(Z20) Envi Studies	ronmental Engineering, Undergraduate Academic		
6.	BMI112	Biome	dical engine	eering in sport physiology		(BM0) Bio Studies	medical Engineering, Undergraduate Academic		
7.	BMI113	Neuro	engineering	I		(BM0) Bio Studies	medical Engineering, Undergraduate Academic		
8.	BMI120	Equipr disable		stems for helping the elde	erly, ill and	(BM0) Bio Studies	medical Engineering, Undergraduate Academic		
9.	BMI124	Syster	n Modeling	and Simulation		(BM0) Biomedical Engineering, Undergraduate Academic Studies			
10.	BMI125	Biolog	ical Control	Systems		(BM0) Biomedical Engineering, Undergraduate Academic Studies			
11.	E2311	Autom	ation in sm	art office-residential buildi	ngs	(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies		
12.	EMSAU 1	Autom	atic Contro	Systems in Electronics		Èngineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies		
13.	SEAU01	Nonlin	ear prograr	nming and evolutionary co	mputations	Undergrad	tware Engineering and Information Technologies, uate Academic Studies		
14.	SEAU03	Real-ti	me control	algorithms		Undergrad	tware Engineering and Information Technologies, uate Academic Studies		
15.	SEAU04	Softwa	are of BMS			Undergrad (SEL) Sof	tware Engineering and Information Technologies, uate Academic Studies tware Engineering and Information Technologies -		
						(SE0) Sof	ndergraduate Academic Studies tware Engineering and Information Technologies, uate Academic Studies		
16.	SEAU06	Softwa	are of Proce	ess Computers		(SEL) Soft	tware Engineering and Information Technologies - ndergraduate Academic Studies		
17.	ZC037	Autom	ation applie	ed in the industry and build	lings	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies			
18.	AU514	Totally	Integrated	Automatic Control Systen	าร	(E20) Computing and Control Engineering, Master Academic Studies			
19.	S054	Comp	uter Modelli	ng and Simulation		(S01) Pos Academic	tal Traffic and Telecommunications, Master Studies		

TO STUDIO

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation



Postal Traffic and Telecommunications



List o	List of courses being held by the teacher in the accredited study programmes									
	ID	Course name		Study programm	me name, study type					
20.	SEAM01	Intelligent Control Systems		(SE0) Software Engineering and Information Technologies, Master Academic Studies						
21.	SEAM02	Adaptive and advanced control		(SE0) Software Master Academi	Engineering and Informatior c Studies	n Technologies,				
22.	SEAM03	Software Algorithms in Supervisory Acquisition Systems	Control and Data	(SE0) Software Master Academi	Engineering and Informatior c Studies	n Technologies,				
23.	SEAM05	Dynamic Programming, combinatori optimization	al and network	(SE0) Software Master Academi	Engineering and Informatior c Studies	n Technologies,				
24.	DAU017	Selected Topics from Totally Integra Control Systems	ted Automatic	(E20) Computing and Control Engineering, Doctoral Academic Studies						
25.	DAU018	Selected Chapters in Distributed Co	ntrol Systems	(E20) Computin Academic Studie	g and Control Engineering, les	Doctoral				
Rep	Representative refferences (minimum 5, not more than 10)									
1.	1. Čongradac V., Kulić F.: Recognition of the importance of using artificial neural networks and genetic algorithms to optimize chiller operation, Energy and Buildings, 2012, Vol. 47, pp. 651-658, ISSN 0378-7788									
2.		ac V., Jorgovanović N., Stanišić D.: A , 2012, Vol. 48, pp. 146-154, ISSN 03	0 0,	onsumption for he	eating and cooling in hospita	ls, Energy and				
3.		ac V., Bojanić D., Čapko D.: Algorithr and fuzzy logic, Solar Energy, 2012,				a genetic				
4.		ac V., Kulić F.: HVAC system optimiz , 2009, ISSN 0378-7788	ation with CO2 concer	ntration control usi	ing genetic algorithms, Ener	gy and				
5.		ac V.: Control of the lighting system us6, UDK: 621	ising a genetic algorith	m, Thermal Scier	nce, 2012, Vol. 16, No 1, pp.	237-250, ISSN				
6.		ac V.: Business process managemen 2012, Vol. 16, No 1, pp. 269-279, ISS			ment by using the totalobser	ver, Thermal				
Sur	mmary data	for teacher's scientific or art and profe	essional activity:							
Quot	ation total:		0							
Total	of SCI(SS	CI) list papers :	6							
Curre	urrent projects : Domestic : 1 International : 0									



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Postal Traffic and Telecommunications



Science, arts and professional qualifications

Acad Name	e and last n lemic title:	arric.			Delic D. Viau	J			
Name	onno uuo.				Delić D. Vlado Associate Professor				
	Name of the institution where the teacher works full time and						nces - Novi Sad		
startii	e or the inst ng date:	itutiOH V	viicie (ile (e	acijei works juli lilije and	01.09.1989	oui Oole			
	ntific or art fi	ield:				cations and	Signal Processing		
	emic cariee		Year	Institution		Field			
Academic title election: 2008 Faculty of Technical Science									
	thesis		1997	Faculty of Technical Scient			Telecommunications and Signal Processing		
Magi	ster thesis		1993	School of Electrical Engi	neering - Beog	ırad	Telecommunications and Signal Processing		
— Ŭ	elor's thesis	3	1989	Faculty of Technical Scient			Telecommunications and Signal Processing		
List o	of courses b	eing hel	d by the tea	acher in the accredited stu					
			,		7. 0				
	ID	Course	e name			7 .	gramme name, study type		
1.	EK411	Digital	Filters				er, Electronic and Telecommunication g, Undergraduate Academic Studies		
2.	Z413A	Acoust	tics and No	ise Protection		(Z20) Envii Studies	ronmental Engineering, Undergraduate Academic		
3.	BM118B	Acoust	tics and Au	dio Engineering in Medicir	ne	(BM0) Bio Studies	medical Engineering, Undergraduate Academic		
4.	EK312	Acoust	tics and Au	dio Engineering			er, Electronic and Telecommunication g, Undergraduate Academic Studies		
5.	EK312L	Acoust	tics and Au	dio Engineering in Multime	edia	(F10) Eng Studies	ineering Animation, Undergraduate Academic		
6.	EK422	Digital	Audio Sign	al Processing		(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies			
7.	EK451	Audio	and Video ⁻	Technologies		(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies			
8.	EK452	Monito	ring and No	oise Protection		(E10) Pow	er, Electronic and Telecommunication g, Undergraduate Academic Studies		
9.	ETI27	Audio	Engineerin	9			ctronics and Telecommunications, Undergraduate		
10.	ETI29	Monito	ring and No	oise Protection		(E02) Electronics and Telecommunications, Undergraduate Professional Studies			
11.	ETI35	Digital	Sound Pro	cessing		(E02) Elec Profession	ctronics and Telecommunications, Undergraduate al Studies		
12.	DE111S	Algorit	hms for Dig	ital Signal Processing			ver, Electronic and Telecommunication g, Specialised Academic Studies		
13.	DE212S	Select	ed Chapter	s in Acoustics and Audio E	Engineering		ver, Electronic and Telecommunication g, Specialised Academic Studies		
14.	DE512S	Humar	n-Machine S	Speech Communication			ver, Electronic and Telecommunication g, Specialised Academic Studies		
15.	S0151		ation of Dig mmunication	ital Signal Processing in		(S01) Pos Academic	tal Traffic and Telecommunications, Master Studies		
16.	SI037	Teleco	mmunicatio	on Infrastructure of E-Busi	ness		ver, Electronic and Telecommunication g, Specialised Professional Studies		
17.	BMIM2A	Assisti	ve Informat	tion and Communications	Technologies	(BM0)Bio	medical Engineering, Master Academic Studies		
18.	EK422L	Digital	Audio Sign	al Processing		(F20) Eng	ineering Animation, Master Academic Studies		
19.	EK550	Speec	h Technolo	gies			er, Electronic and Telecommunication g, Master Academic Studies		
20.	S1596	Acoust	tics and Au	dio Engineering in Traffic		(S01) Pos Academic	tal Traffic and Telecommunications, Master Studies		
							ver, Electronic and Telecommunication g, Doctoral Academic Studies		
21.	DE111	Algorit	hms for Dig	ital Signal Processing		(H00) Med	chatronics, Doctoral Academic Studies		
						(OM1) Ma Studies	thematics in Engineering, Doctoral Academic		
22.	DE212	Selecte	ed Chapter	s in Acoustics and Audio E	Engineering		ver, Electronic and Telecommunication g, Doctoral Academic Studies		

STAS STUDIO

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES Postal Traffic and Telecommunications



List	List of courses being held by the teacher in the accredited study programmes									
	ID	Course name Study programme name, study type								
23.	DE512 Human-Machine Speech Communication (E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies									
Rep	oresentative	e refferences (minimum 5, not more th	an 10)							
1.	"Zbirka z	adataka iz digitalne obrade signala", \	/. Delić, M. Sečujski, I.	Radić, FTN, 200	7, str. 176, (ISBN 978-86-78	92-082-0)				
2.		k za smanjenje verovatnoće greške k -434/97), 2009	od produženog telefon	skog biranja niza	cifara", V. Delić, V. Šenk; Pa	atent u Srbiji				
3.		er - govorni softver za slepe i slabović čki proizvod u Srbiji 2004. godine (ww		, M. Sečujski, D. F	Pekar, R. Obradović, V. Delid	ć, Najbolji				
4.	"Advertising Monitor - praćenje reklama na osnovu ASR", V. Delić u grupi autora, Novi proizvod, 1. mesto na takmičenju za najbolju tehnološku inovaciju u Srbiji 2006. god.									
5.	"Govorni portal za slepe i slabovide osobe - KONTAKT", V. Delić u grupi autora, Jedinstven proizvod u regionu baziran na dijalogu čovek-mašina, rezultat inovacionog projekta kod Ministarstva nauke (PTR-2078) 2005/2006									
6.	"Speech Signal Processing in ASR&TTS Algorithms", V. Delić, D. Pekar, R. Obradović, M. Sečujski, Facta Universitatis (Niš), Series: Electronics and Energetics, vol. 16, no. 3, (2003), pp. 355-364									
7.		klubova i koncertnih prostora – analiza cija Buka i Vibracije, Tara, 1113.10.2		nih muzičkih signa	ala", M. Stojiljković, V. Delić,	XX				
8.	Gnjatović	nation Capability of Prosodic and Spe 5, M. Sečujski, S.T. Jovičić; Electronic 1, DOI:10.5755/j01.eee.18.9.2806								
9.	"Influence of the Number of Principal Components used to the Automatic Speaker Recognition Accuracy", I. Jokić, S. Jokić, Z. Perić, M. Gnjatović, V. Delić; Electronics and Electrical Engineering, ISSN 1392-1215, No. 7(123), September of 2012, pp. 83-86, DOI:10.5755/j01.eee.123.7.2379									
10.	"Focus Tree: Modeling Attentional Information in Task-Oriented Human-Machine Interaction", M. Gnjatović, M. Janev, V. Delić; Applied Intelligence, Springer-Verlag New York, Inc., ISSN 0924-669X, Volume 37, Issue 3, Page 305-320, (2012) DOI: 10.1007/s10489-011-0329-5									
		for teacher's scientific or art and profe	,							
	ation total :		52							
_		CI) list papers :	14							
Curre	ent projects	:	Domestic :	4	International:	0				

DE STORES

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Postal Traffic and Telecommunications



Science, arts and professional qualifications

Name and last name:			Erdeljan M. Aleksandar					
Acad	demic title:				Associate Professor			
	e of the inst	titution v	vhere the te	acher works full time and	Faculty of Ted 24.07.1989	chnical Scie	nces - Novi Sad	
	ntific or art f	ield:				ntrol and Sy	/stem Engineering	
	demic caries		Year	Institution	Field			
Academic title election: 2011						Automatic Control and System Engineering		
PhD	thesis		2000	Faculty of Technical Sci	ences - Novi Sa	ad	Automatic Control and System Engineering	
Magi	ister thesis		1993	School of Electrical Engi	ineering - Beog	ırad	Automatic Control and System Engineering	
Bach	nelor's thesi	S	1989	Faculty of Technical Sci	ences - Novi Sa	ad	Automatic Control and System Engineering	
List	of courses b	eing he	ld by the tea	acher in the accredited stu	udy programme	s		
	ID	Course	e name			Study pro	gramme name, study type	
1.	E126	Syster	n Control, M	Modeling and Simulation			er, Electronic and Telecommunication g, Undergraduate Academic Studies	
						(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies	
						(ES0) Pow Academic	ver Software Engineering, Undergraduate Studies	
2.	E232	System	n Madalina	and Simulation			chnical Mechanics and Technical Design, uate Academic Studies	
2.	E232	System Modeling and Simulation				(MR0) Me Undergrad	asurement and Control Engineering, uate Academic Studies	
						(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies		
							tware Engineering and Information Technologies - ndergraduate Academic Studies	
3.	GI303A	Distrib	uted Syster	ns in Geomatics		(GI0) Geo Studies	desy and Geomatics, Undergraduate Academic	
4.	H213	Syster	n Modelling	and Simulation 1		(GI0) Geo Studies	desy and Geomatics, Undergraduate Academic	
						(H00) Med	chatronics, Undergraduate Academic Studies	
5.	BMI124	Syster	n Modeling	and Simulation		(BM0) Bio Studies	medical Engineering, Undergraduate Academic	
6.	E2312	Softwa	are design f	or SCADA systems		(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies	
0.	LZJIZ	Oonwe	are design n	or coada systems			tware Engineering and Information Technologies - ndergraduate Academic Studies	
7.	ESI001	Softwa	are Tools in	Power Engineering		Academic		
8.	ESI010	Rasics	of control i	n power systems		(ES0) Pov Academic	ver Software Engineering, Undergraduate Studies	
	201010	Dasios	. 51 551111011	power eyelette		, ,	er, Electronic and Telecommunication g, Undergraduate Academic Studies	
9.	ESI015	Distrib	uted Comp	uter Systems in Power Sy	stems	Académic		
10.	SEAU02	SCAD	A Software			Undergrad	tware Engineering and Information Technologies, uate Academic Studies	
11.	SEAU09	Softwa	are design o	of SCADA systems		Undergrad	tware Engineering and Information Technologies, uate Academic Studies	
	02/1009	CORWE	aro design o	conton toyotomo		(SEL) Soft Loznica, U	tware Engineering and Information Technologies - ndergraduate Academic Studies	
12.	SEI002	Archite	ecture of Dis	stributed Systems in Powe	er Systems	(ES0) Pov Academic	ver Software Engineering, Undergraduate Studies	

TE TO STUDIO

UNIVERSITY OF NOVI SAD

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



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Postal Traffic and Telecommunications

List	List of courses being held by the teacher in the accredited study programmes												
	ID	Course name		Study programi	me name, study type								
13.	AU502	Distributed Control Systems		Academic Studie (MR0) Measure Academic Studie	ment and Control Engineer	ing, Master							
				(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies									
14.	H301	System Modeling and Symulation		(H00) Mechatro	nics, Master Academic Stu	dies							
15.	S054	Computer Modelling and Simulation		(S01) Postal Tra Academic Studie	affic and Telecommunications	ns, Master							
16.	BMIM3D	Development of integrated biomedic	al systems	(BM0) Biomedic	al Engineering, Master Aca	ademic Studies							
17.	E2532	Automatic Control Systems Project N	Management	(E20) Computin Academic Studie	g and Control Engineering, es	Master							
18.	E2533	Discrete event simulation		(E20) Computin Academic Studie	g and Control Engineering, es	Master							
19.	E2535	Software Algorithms in Supervisory (Control and Data	(E20) Computin Academic Studie	g and Control Engineering, es	Master							
19.	E2555	Acquisition Systems			ectronic and Telecommunic ster Academic Studies	ation							
20.	ESI030	Distributed Software Architectures for Grids	or Smart Energy	(ES0) Power So Studies	oftware Engineering, Maste	r Academic							
21.	SEAM06	Integration of Distributed Control Sys	(SE0) Software Engineering and Information Technologies Master Academic Studies										
22.	DAU006	Selected Chapters in Modeling and S Dynamic Systems	Simulation of	(E20) Computing and Control Engineering, Doctoral Academic Studies									
23.	DAU018	Selected Chapters in Distributed Con	ntrol Systems	(E20) Computin Academic Studie	g and Control Engineering, es	Doctoral							
24.	ZRD25A	Selected chapters from Artificial Inge	eligence	(Z01) Safety at	Work, Doctoral Academic S	Studies							
Rep	oresentative	e refferences (minimum 5, not more the	an 10)										
1.	Lendak I. Math. Ap	, Erdeljan A., Popović D.: Algorithm f pl. 61, No. 3, 715-721 (2011). ISSN 0	or cataloguing topolog 398-1221	ies in the Commo	on Information Model (CIM)	, Computers							
2.		rić S., Erdeljan A., Čapko D., Lendak I cal neural network, International Journ 33											
3.	Čapko D. Systems,	., Erdeljan A., Švenda G., Popović M.: Electronics and electrical engineering	Dynamic Repartition g, 2012, No 4(120), pp	ing of Large Data o. 83-88, ISSN 139	Model in Distribution Mana 92-1215	gement							
4.		ıkmirović S., Erdeljan A., Kulić F.: Hyl 2012, Vol. 16, No S, pp. 215-224, ISS		etwork System for	Short-Term Load Forecas	ting, Thermal							
5.		rić S., Erdeljan A., Čapko D., Lendak I engineering, 2011, Vol. 107, No 1, pp			n Model with Virtual Meter,	Electronics and							
6.		., Erdeljan A., Popović M., Švenda G.: f Advances in Electrical and Compute				ment Systems,							
7.		., Erdeljan A., Vukmirović S., Lendak I UTION MANAGEMENT SYSTEMS, Ir											
8.		rić S., Nedić N., Erdeljan A., Lendak I. Scheduling, Information technology a				System							
9.		rić S., Erdeljan A., Lendak I., Čapko D strial Research (JSIR), 2010, Vol. 201				al of Scientific							
10.		., Erdeljan A., Popović M., Švenda G.: 010, str. 555-558, ISBN 978-3-642-15		ship-Based Partiti	oning of Large Datasets, LI	NCS, Springer							
Sur	mmary data	for teacher's scientific or art and profe	essional activity:										
_	ation total:	01) 11 4	1										
	` '	CI) list papers :	9 Domostio :		International :	10							
Curre	ent projects	•	Domestic .	٥	micinalional.	Current projects : Domestic : 3 International : 0							

STAS STUDIO

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Postal Traffic and Telecommunications



Science, arts and professional qualifications

Name and last name:			Kranjac M. Mirjana								
Acad	Academic title:			Assistant Professor							
	Name of the institution where the teacher works full time and starting date:			-							
	Scientific or art field:				Postal Traffic	and Commi	unicati	ons			
Acad	lemic caries	r	Year	Institution				Field			
Acad	lemic title el	ection:	2012	Faculty of Technic	al Sci	ences - Novi Sa	ad	Posta	al Traffic and Commun	ications	
PhD	thesis		2012	Faculty of Technic				Engir	neering Management		
Mast	er's thesis		2010	Faculty of Technic	al Sci	ences - Novi Sa	ad	Engir	neering Management		
Magi	ster thesis		1994	University of Belgr	rade -	Beograd		Infor	mation-Communication	System	าร
Bach	elor's thesis	3	1982	Faculty of Technic	al Sci	ences - Novi Sa	ad	Elect	ronics and Telecommu	unication	ıs
List	of courses b	eing hel	d by the tea	acher in the accredit	ted stu	udy programme	s				
	ID	Course	e name				Study pro	gramn	ne name, study type		
1.	S1I52P	Multim	edia comm	unications					ffic and Telecommunic cademic Studies	ations,	
2.	S1595	Geogra	aphic inforn	nation system in traf	ffic		(S01) Postal Traffic and Telecommunications, Master Academic Studies				
3.	S1I593 Electronic postal services					(S01) Postal Traffic and Telecommunications, Master Academic Studies					
Rep	oresentative	reffere	nces (minim	num 5, not more tha	ın 10)						
1.	Lazić, D.	, Drajić,	D., Krstajić	, P., Obradović, M.	: Desi	gn of block cod	es for pholy	/phase	signals, IEEE ISIT, Ca	anada, 1	983.
2.									ability and availability communications, Budapes		
3.	Kranjac, l			nović, V., Krčo, S.:	The c	oncept of the te	elephone se	rvice q	uality from the view of	the use	r, Relin Com
4.	Kranjac,	M. : Rev	iewal of i20	110 and related docu	ument	s in Serbia, ICT	'2008, Rom	na, 200	8.		
5.									n telephone traffic, Pro 1-25, 1998, Vol. IV, p		
6.			ević, S., Svi Judapest, 1		M. : E	ffectiveness of	telecommu	nicatio	n system as a measure	e of serv	rice quality,
7.				C network Salajka, e Conference - SEEBE				een P	TT "Srbija" and Teleko	m "Srbija	a", South-
8.				az strategije širokop 008, ISBN-99938-62			acionih mre	ža AP	Vojvodine za period od	d 2007. d	do 2010,
9.	Kranjac,	M.: Utica	aj pratećih d	dijagnoza na parame	etre bo	olničkog morbio	liteta				
10.	Kranjac,	M.: Mod	deli za realiz	zaciju projekata uz p	oodršk	cu fondova Evro	pske unije i	na pod	ručju AP Vojvodine		
Sur	nmary data	for teac	her's scient	tific or art and profes	ssiona	l activity:	•		-		
Quot	Quotation total : 0				0						
Tota	of SCI(SS	CI) list pa	apers :		0						
Curre	ent projects	:			Dome	estic :	0		International :	0	



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

Study Programme Accreditation



Postal Traffic and Telecommunications



Science, arts and professional qualifications

Name and last name:				i	Kujačić D. Momčilo				
	e and last ri	and.			Full Professor				
		titution v	there the te	acher works full time and					
	ng date:	ilulion v	viiele tile te	acher works full time and	21.09.2005	<u> </u>			
	ntific or art f	ield:			Postal Traffic and Communications				
Acad	emic carie	er	Year	Institution	Field		Field		
Acad	emic title e	lection:	2012	Faculty of Technical Sci	ences - Novi S	ad	Postal Traffic and Communications		
PhD	thesis		2001	Faculty of Transport and	Traffic Engine	ering -	Traffic Systems		
Magi	ster thesis		1999	Beograd Faculty of Transport and Beograd	Traffic Engine	ering -	Traffic Systems		
Bach	elor's thesi	S	1978	Faculty of Transport and Beograd	l Traffic Engine	ering -	Traffic Systems		
List o	of courses b	eing he	d by the tea	acher in the accredited stu	ıdy programme	s			
	ID	Course	e name			Study pro	gramme name, study type		
1.	S01322	Postal	Traffic				tal Traffic and Telecommunications, uate Academic Studies		
2.	S01327	Postal	Services a	nd Networks			tal Traffic and Telecommunications, uate Academic Studies		
3.	S01330		gic Planning mmunicatio	in Postal Traffic and ons			tal Traffic and Telecommunications, uate Academic Studies		
4.	S01381	Direct	marketing				tal Traffic and Telecommunications, uate Academic Studies		
5.	S01471	1 Change management					tal Traffic and Telecommunications, uate Academic Studies		
6.	S0I323	Technology of postal traffic				(S00) Traf Academic	fic and Transport Engineering, Undergraduate Studies		
7.	S0153	New Technologies and Services in Postal			raffic	(S01) Pos Academic	tal Traffic and Telecommunications, Master Studies		
8.	S1I583	Models of Postal Network Management				(S01) Postal Traffic and Telecommunications, Master Academic Studies			
9.	S1I593		onic postal s				(S01) Postal Traffic and Telecommunications, Master Academic Studies		
10.	DSSP1	manag	ement	from the field of public po		<u> </u>	fic Engineering, Doctoral Academic Studies		
11.	DSSP2	organi	zation	from the field of postal tra		(S00) Traffic Engineering, Doctoral Academic Studies			
12.	DSSP3	marke	research	from the field of postal se		(S00) Traffic Engineering, Doctoral Academic Studies			
13.	DSSP4	Selectin post	ed chapters al traffic	from the field of process	management	(S00) Traffic Engineering, Doctoral Academic Studies			
Rep	oresentative	reffere	nces (minin	num 5, not more than 10)					
1.	Metalurgi	a intern	ational, 201	3, No 3, ISSN 1582-2214			evenue of universal postal service operator,		
2.			jačić M., Ša I 1582-221		uzzy logic app	roach to pre	dicting waiting time, Metalurgia international,		
3.				vić D., Jovanović B.: Prov 1, Vol. 5, No 8, pp. 1158-1			vice in developing countries, African Journal of		
4.				ra D.: Organizational des , Vol. 5, No 10, pp. 1194-			analytic network process (Article), Scientific		
5.		postal s	services in o				costing model on cost accounting of provider of iness Management, 2010, Vol. 4, No 8, pp. 1605-		
6.	Computa	tional &		cal Organization Theory, \			sing Fuzzy Multicriteria decision Making , 2003, Kluwer Academic Publishers,		
7.					al technology i	nternational	, 2007, pp. 62-63, ISSN 1472-5274		
8.	Kujačić M	1., Šarad	D., Jovano	ović B.: Access to the pos	stal network of	the public or	perator, SEETSI, Budva, FMSK Berane, 2012.		
9.				ović B.: Regionalni pristur	o finansiranju u	niverzalne p	poštanske usluge, Saobraćajni fakultet Sarajevo,		
	1. SEETSI, Sarajevo, 2010.								

LAS STUDIO LA ST

Current projects:

Total of SCI(SSCI) list papers :

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Postal Traffic and Telecommunications

International:



0

Rep	presentative reflerences (minimum 5, not more tha	iii 10)
10.	Kujačić M., Jekić M.: Značaj koridora 4B za razv saobraćajnog koridora Bukurešt-Beograd-Bar-Ba	voj poštanskog saobraćaja u regionu, međunarodna konferencija: Strateški razvoj ari (4B).
Sur	mmary data for teacher's scientific or art and profes	ssional activity:
)uot	tation total ·	0

4

6

Domestic:



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Postal Traffic and Telecommunications



Science, arts and professional qualifications

Name and last name:					Lalić P. Bojan			
	Academic title:				Assistant Professor			
Nam	e of the inst	itution v	vhere the te	acher works full time and	Faculty of Technical Sciences - Novi Sad			
starti	ng date:				17.06.2002			
Scientific or art field:					Production Systems, Organization and Management			
Acad	lemic carie	er	Year	Institution			Field	
Acad	lemic title el	ection:	2011				Production Systems, Organization and Management	
PhD	thesis		2011	Faculty of Technical Scient	ences - Novi S	ad	Engineering Management	
Magi	ster thesis		2004	Faculty of Technical Science	ences - Novi S	ad	Engineering Management	
Bach	elor's thesis	3	2001	Faculty of Technical Sci	ences - Novi S	ad	Mechanical Engineering	
List o	of courses b	eing he	ld by the tea	acher in the accredited stu	udy programme	es		
	ID	Course	e name			Study pro	ogramme name, study type	
1.	EOS39	Projek	tni menadž	ment		(E01) Pow Energy, Ur	ver Engineering - Renewble Sources of Electrical indergraduate Professional Studies	
2.	II1017	Produc	ction Syster	n Design			strial Engineering, Undergraduate Academic	
3.	II1019	Projec	t Managem	ent		(I10) Indus Studies	strial Engineering, Undergraduate Academic	
4.	IM1019	Comm	ercial Proce	esses		(I20) Engii Studies	neering Management, Undergraduate Academic	
5.	IM1026	E-Busi	iness			(I20) Engii Studies	neering Management, Undergraduate Academic	
6.	IM1027	Production systems				(120) Engineering Management, Undergraduate Academic Studies (MR0) Measurement and Control Engineering,		
7.	IM1046	Structural and Development Projects				(I20) Engi	uate Academic Studies neering Management, Undergraduate Academic	
8.	IM1104		gic Manage			Studies (I20) Engir Studies	neering Management, Undergraduate Academic	
							strial Engineering, Undergraduate Academic	
9.	IM1106	Busine	ess Process	Simulation			neering Management, Undergraduate Academic	
10.	IM1319	Platfor	ms and sys	stems for knowledge trans	fer	(I20) Engir Studies	neering Management, Undergraduate Academic	
						(M50) Ene	ergy Management, Master Academic Studies	
11.	IM2123	Opera	tions mana	gement		(Z20) Envi	ronmental Engineering, Undergraduate Academic	
12.	IS001	Effectiv	ve manage	ment		(I20) Engii Studies	neering Management, Specialised Professional	
12.	10001	Lilcon	ve manage			(IB0) Engi Profession	neering Management - MBA, Specialised al Studies	
13.	MBA304	Busine	ess Strategi	es		Profession		
14	MBA413	Knowl	edae Svoto	me and Project Managem	ent	(I20) Engi Studies	neering Management, Specialised Professional	
14.	IVIDA413	KHOWI	euge Syste	ms and Project Managem	CIIL	(IB0) Engi Profession	neering Management - MBA, Specialised al Studies	
4-	MDAGG	A := -: "	d CIT	and latence of the book		(I20) Engii Studies	neering Management, Specialised Professional	
15.	MBA601	Applie	a use of 11	and Internet in business		(IB0) Engi Profession	ineering Management - MBA, Specialised al Studies	
16.	PLM05	Manag	gement of P	LM Projects			strial Engineering - Product Lifecycle Management opment, Master Academic Studies	



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

Study Programme Accreditation



Postal Traffic and Telecommunications



List o	st of courses being held by the teacher in the accredited study programmes								
	ID	Course name	Study programme name, study type						
			(I20) Engineering Management, Specialised Professional Studies						
17.	SZP003	Selected Chapters in Applied Management	(IB0) Engineering Management - MBA, Specialised Professional Studies						
18.	RPR005	Project Cycle Management	(RPR) Regional Development Planning and Management, Master Academic Studies						
19.	IM2101	Intelligent Enterprising and Effective Management	(M50) Energy Management, Master Academic Studies (I20) Engineering Management, Master Academic Studies						
20.	IM2123	Operations management	(M50) Energy Management, Master Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies						
21.	IM2124	Production and Service Systems	(H00) Mechatronics, Master Academic Studies (M50) Energy Management, Master Academic Studies						
22.	IM2307	Strategic Project Management	(M50) Energy Management, Master Academic Studies (I20) Engineering Management, Master Academic Studies (Z20) Environmental Engineering, Master Academic Studies						
23.	IM2314	Program and Portfolio management	(I20) Engineering Management, Master Academic Studies						
24.	IM2316	Theory of Constraints	(I10) Industrial Engineering, Master Academic Studies						
24.	IIVIZOTO	Theory of Constraints	(I20) Engineering Management, Master Academic Studies (OM1) Mathematics in Engineering, Master Academic						
25.	IM2319	Project evaluation	Studies (I20) Engineering Management, Master Academic Studies						
26.	IM2922	eHRM	(I20) Engineering Management, Master Academic Studies						
27.	IMDS71	Selected topics of project management	(122) Engineering Management, Specialised Academic Studies						
28.	S1I594	E-Business	(S01) Postal Traffic and Telecommunications, Master Academic Studies						
29.	UP002	Applied Project Cycle Management	(I20) Engineering Management, Specialised Professional Studies (IB0) Engineering Management - MBA, Specialised						
30.	IMDR71	Selected topics of project management	Professional Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies						
31.	ZRD27A	Operations management in the security and occupational	(Z01) Safety at Work, Doctoral Academic Studies						
Rep	oresentative	safety e refferences (minimum 5, not more than 10)							
1.	Lalić, B.,	Ćosić I., Anišić, Z.: SIMULATION BASED DESIGN AND RE anal journal of Simulation Modelling, IJSIMM, issn 1726-452							
2.	R. Maksir	movic, B.Lalić; Flexibility and Complexity of Effective Enterp	rises, Strojniski Vesnik, 2008.						
3.	Cruz-Cur Organiza	nha, P. Goncalves, N. Lopes, E.M. Miranda and G.D. Putnik	communication satisfaction within the organizations. In: M.M., ed. Handbook of Research on Business Social Networking: ork, Business Science Reference (IGI Global), 2011, str. 545-						
4.	challenge	Marjanović U.: Organizational Readiness/Preparedness. In: es and opportunities for SMEs: driving competitiveness., Ner ISBN 978-1-61692-880-3	M.M. Cruz-Cunha and J. Varajao, ed. E-business issues, w York, Business Science Reference (IGI Global), 2011, str.						
5.		vić N., Ćosić I., Radaković N., Lalić B.: The General Work F onal Scientific Book, 2009, str. 281-288, ISBN 987-3-901509							
6.		Palčič I.: Analytical Hierarchy Process as a Tool for Selecti g-IJSIMM, 2009, Vol. 8, No 1, pp. 16-26, ISSN 1726-4529	ng and Evaluating Projects, International journal of Simulation						
7.		Ćosić I., Anišić Z.: SIMULATION BASED DESIGN AND RE onal journal of Simulation Modelling-IJSIMM, 2005, Vol. 4, N							
8.	making p	c M., Moreno Perez J., Lalić B., Todorovic V., Jovanović M.: roject management decisions in construction, Projektna mre), ISSN 1580-0229	Use of cost analysis, estimation and risk management in eza Slovenije - Project Management Review, 2010, Vol. 8, No						
9.		Ćosić I., Poli M.: Project Strategy Matching Project Structur f Industrial Engineering and Management - IJIEM, 2010, Vo							

STUDIO ST

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Postal Traffic and Telecommunications



Representative refferences (minimum 5, not more than 10)

Poli M., Mithiborwala H., Maksimović R., Lalić B.: PROJECT STRATEGY: SELECTING THE BEST PROJECT STRUCTURE, 9.

10. PICMET Conference, Portland: Portland International Center for Management of Engineering and Technology, 2-6 Avgust, 2009, pp. 1276-1281, ISBN 978-1-890843-20/5

Summary data for teacher's scientific or art and professional activity:								
Quotation total: 4								
Total of SCI(SSCI) list papers :	Total of SCI(SSCI) list papers: 2							
Current projects : Domestic : 2 International : 2								



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES Postal Traffic and Telecommunications



Science, arts and professional qualifications

Name and last name:			Lendak I. Imre							
Acad	lemic title:				Assistant Professor					
		itution v	vhere the te	acher works full time and	,	chnical Scie	ences - Novi Sad			
	ng date:				01.02.2005					
	ntific or art f				Automatic Control and System Engineering					
	lemic caries		Year	Institution			Field			
	lemic title el	ection:	2012	Faculty of Technical Sci			Automatic Control and System Engineering			
PhD	thesis		2011	Faculty of Technical Sci			Automatic Control and System Engineering			
<u> </u>	ster thesis		2007	Faculty of Technical Sci			Automatic Control and System Engineering			
Bach	elor's thesis	3	2002	Faculty of Technical Sci	ences - Novi Sa	ad	Automatic Control and System Engineering			
List	of courses b	eing hel	ld by the tea	acher in the accredited stu	udy programme	s				
	ID	Course	e name			Study pro	ogramme name, study type			
						Àcadémic	nputing and Control Engineering, Undergraduate Studies ver Software Engineering, Undergraduate			
							chnical Mechanics and Technical Design,			
1.	E232	Systen	n Modeling	and Simulation		_	luate Academic Studies			
		-,	3				easurement and Control Engineering, luate Academic Studies			
						(SE0) Sof Undergrad	tware Engineering and Information Technologies, luate Academic Studies			
						(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies				
2.	GI303A	Distributed Systems in Geomatics				(GI0) Geo Studies	GI0) Geodesy and Geomatics, Undergraduate Academic Studies			
3.	E2312	Software design for SCADA systems					(20) Computing and Control Engineering, Undergraduate ademic Studies			
J.	LZJIZ	Soliwa	are design in	or south systems			SEL) Software Engineering and Information Technologies - oznica, Undergraduate Academic Studies			
4.	ESI003	Electric	c power sof	tware development		(ES0) Pov Academic	Power Software Engineering, Undergraduate iic Studies			
5.	ESI011	Softwa	are security	and safety in power engir	neering	(ES0) Pov Academic	wer Software Engineering, Undergraduate Studies			
6.	ESI016	Smart	Grid Progra	amming		(ES0) Pov Academic	wer Software Engineering, Undergraduate Studies			
7.	ESI017	Mobile	computing	in power systems		(ES0) Pov Academic	wer Software Engineering, Undergraduate Studies			
8.	SEAU02	SCAD	A Software				tware Engineering and Information Technologies, luate Academic Studies			
						(E20) Con Academic	nputing and Control Engineering, Master Studies			
9.	AU502	Distrib	uted Contro	ol Systems		(MR0) Me Academic	easurement and Control Engineering, Master Studies			
							er, Electronic and Telecommunication ag, Master Academic Studies			
10.	S054	Comp	uter Modelli	ng and Simulation		(S01) Pos Academic	stal Traffic and Telecommunications, Master Studies			
11.	BMIM3D	Develo	pment of ir	tegrated biomedical syste	ems		medical Engineering, Master Academic Studies			
12.	E2533	Discre	te event sin	nulation		(E20) Con Academic	nputing and Control Engineering, Master Studies			
13.	E2535			ms in Supervisory Control	and Data	(E20) Con Academic	nputing and Control Engineering, Master Studies			
13.		Acquis	sition Syster	ms		Èngineerin	er, Electronic and Telecommunication ng, Master Academic Studies			
14.	ESI033	Advan	ced Power	Grid Communication Prot	ocols	(ES0) Pov Studies	wer Software Engineering, Master Academic			

ASTRAS STUDIO

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES Postal Traffic and Telecommunications



List	of courses b	peing held by the teacher in the accredited study programme	es				
	ID	Course name	Study programme name, study type				
15.	ESI037	Smart Grid security and safety (ES0) Power Software Engineering, Master Academic Studies					
16.	ESI038	Service oriented architectures in Smart Grid	(ES0) Power Software Engineering, Master Academic Studies				
17.	SEAM03	Software Algorithms in Supervisory Control and Data Acquisition Systems	(SE0) Software Engineering and Information Technologies, Master Academic Studies				
Rep	oresentative	e refferences (minimum 5, not more than 10)					
1.		., Erdeljan A. & Popović D. (2011), "Algorithm for cataloguin rs and mathematics with applications, February 2011, vol 6					
2.	Vukmirović S., Erdeljan A., Čapko D., Lendak I., Nedić N. (2011), "Optimization of workflow scheduling in Utility Management System with hierarchical neural network", International Journal of Computational Intelligence Systems, 2011, vol 4 (4), pp. 672-679.						
3.	Lendak I., Ivancevic N., Vukmirovic S., Varga E., Nenadic K. & Erdeljan A. (2012), "Client Side Internet Technologies in Critical Infrastructure Systems", International Journal of Computers, Communications & Control (IJCCC), 2012, vol 7 (5), pp. 878-890.						
4.		ric S., Erdeljan A., Lendak I. & Capko D. (2012), "Unifying th Techniques-Serie Electrotechnique et Energetique, 2012, v	ne Common Information Model (CIM)", Revue Roumaine des vol 57 (3), pp. 301-310.				
5.		ric S., Erdeljan A., Lendak I. & Capko D. (2012), "Optimal W etworks", Journal of Applied Research and Technology, 201					
6.		., Erdeljan A., Vukmirović S. & Lendak I. (2011), "A Hybrid G nent Systems", Information Technology and Control, 2011, v	Genetic Algorithm for Partitioning of Data Model in Distribution vol 40 (4), pp. 316-322.				
7.		rić S., Erdeljan A., Lendak I. & Čapko D. (2011), "Extension cs and electrical engineering, ISSN 1392 – 1215, 2011, vol					
8.	Vukmirov Scientific	rić S., Erdeljan A., Lendak I. & Čapko D. (2010), "A novel so & Industrial Research, December 2010, vol 69, pp. 937-94	ftware architecture for smart metering systems", Journal of 1.				
9.		Vukmirović S., Erdeljan A., Lendak I. & Čapko D. (2010), "scheduling", Information technology and control, 2010, vol	A genetic algorithm approach for utility management system 39 (4), pp. 310-319.				
10.	Erdeljan A., Lendak I., Vukmirović S. & Čapko D. (2007), "Otvorena softverska arhitektura za modeliranje, simulaciju i upravljanje distributivnim vodovodnim sistemima", Vodoprivreda, 2007, ISSN 0350-0519, vol 229-230, pp. 291-302.						
Sur	mmary data	for teacher's scientific or art and professional activity:					
Quot	ation total:	25					

Summary data for teacher's scientific or art and professional activity:									
Quotation total: 25									
Total of SCI(SSCI) list papers: 9									
Current projects : Domestic : 1 International : 1									



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

Study Programme Accreditation



Postal Traffic and Telecommunications



Science, arts and professional qualifications

Name and last name: Nike					Nikoličić S. Svetlana				
	lemic title:				Assistant Professor				
_		itution v	vhere the te	eacher works full time and	Faculty of Technical Sciences - Novi Sad				
	ng date:				01.02.1991				
Scie	ntific or art f	ield:		Ī	Integral Transport and Logistics				
Academic carieer Year Institution					Field				
	lemic title el	ection:	2012	Faculty of Technical Sci			Integral Transport and Logistics		
PhD	thesis		2011	Faculty of Technical Sci			Integral Transport and Logistics		
Magi	ster thesis		2001	Faculty of Technical Sci Faculty of Transport and			Integral Transport and Logistics		
Bach	elor's thesis	8	1988	Beograd	i Tranic Engine	ening -	Integral Transport and Logistics		
List	of courses b	eing he	ld by the te	acher in the accredited stu	udy programme	es			
	ID	Course	e name			Study pro	gramme name, study type		
1.	S0221	Comp	any Logisti	cs		(S00) Traf Academic	fic and Transport Engineering, Undergraduate Studies		
						(S00) Traf	ffic and Transport Engineering, Undergraduate		
2.	SO211	Introdu	uction to Lo	gistics		(S01) Pos	tal Traffic and Telecommunications, uate Academic Studies		
3.	S0I597	Shapir	ng Logistics	Processes in Supply Cha	ins	(S00) Traf Studies	fic and Transport Engineering, Master Academic		
4.	LIM01	Funda	mentals of	Logistics			LIM) Logistic Engineering and Management, Master		
5.	LIM07	Interm	odal Trans _l	oort 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) Logi Academic	stic Engineering and Management, Master Studies		
8.	LIM22	Logisti	ic Controllin	ig and Benchmarking		(LIM) Logistic Engineering and Management, Master Academic Studies			
9.	LIM23	Logisti	ic Centers			(LIM) Logistic Engineering and Management, Master Academic Studies			
10.	LIM24	Urban	Logistics			(LIM) Logistic Engineering and Management, Master Academic Studies			
11.	S0ML4	Logisti	ics centers			(S00) Traffic and Transport Engineering, Master Academic Studies			
12.	S1I592	Postal	logistics ce	enters		(S01) Postal Traffic and Telecommunications, Master Academic Studies			
13.	DSSL1		/ chain mar				fic Engineering, Doctoral Academic Studies		
14.	DSSL2			om inventory managemen	t		ffic Engineering, Doctoral Academic Studies		
15.	DSSL5		nable Logis			,	ffic Engineering, Doctoral Academic Studies		
16.	DSSL6		cs outsour	<u> </u>		` '	ffic Engineering, Doctoral Academic Studies		
17.	ZRD232			ecurity Services and Healt	ıı at vvork	(ZUI) Safe	ety at Work, Doctoral Academic Studies		
Rep			•	num 5, not more than 10)	i Darier "	lla Ac-	to i manipulinamia 4/04 ats 7.44 MILLOOM COTO		
1.	4492						ta i manipulisanja, 4/04, str. 7-11, YU ISSM 0350-		
2.	elektro i r	našinsk	e industrije	- DEMI, Banja Luka: Maš	inski fakultet, 2	7-28 Maj, 20			
3.		Manage					Strategic management - Inteniational Joumal of , 2008, No 3, pp. 49-53, ISSN 0354-8414, UDK:		
4.	Nikoličić : 4767	S., Osto	jić T.: Cros	ss-docking kao način racio	nalizacije distri	bucije, Posl	ovna logistika, 2006, No 3, pp. 42-45, ISSN 1452-		
5.	Chains, ii	n Develo	oping Susta	inable Collaborative Supp	oly Chains ,12	2. Internation	Management And Transport Sourcing In Supply nal Symposium on Logistics, Budimpešta: Centre 2007, pp. 579-584, ISBN 978 0853582182		

NEW STUDIOS

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Postal Traffic and Telecommunications



Re	Representative refferences (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.: Logist Romania, Transactions on Mechanics, 2008, V				ty of Timisoara,				
Sur	mmary data for teacher's scientific or art and profe	essional activity:							
Quot	tation total :	0							
Tota	l of SCI(SSCI) list papers :	1	_						
Current projects : Domestic : 1 International : 0									



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

Study Programme Accreditation



Postal Traffic and Telecommunications



Science, arts and professional qualifications

Nam	e and last n	ame:			Petrović S. Vladimir			
Academic title:					Assistant Professor			
Name of the institution where the teacher works full time and								
starti	ng date:							
Scientific or art field:			Telecommuni	cations and	Signal Processing			
	emic caries		Year	Institution			Field	
	emic title el	lection:	2009	Faculty of Technical Sci		ad	Telecommunications and Signal Processing	
	thesis		2001	University of Mancheste	r - Padej		Telecommunications and Signal Processing	
	elor's thesis	S	-				Telecommunications and Signal Processing	
Ŭ	ster thesis	oina ho	-	ashar in the approdited at	ıdı programma		Telecommunications and Signal Processing	
LISU	i courses b	ellig lie	id by the te	acher in the accredited stu	ady programme	:5		
	ID	Course	e name			7 .	gramme name, study type	
1.	EK300	Digital	Modulation	S		Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies	
2.	EK412		Recognitio			Studies	medical Engineering, Undergraduate Academic	
3.	BMI121	Image Imagir		and Computer Vision in N	Medical	Studies	medical Engineering, Undergraduate Academic	
4.	EK463	Patteri	n Recognition	on		Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies	
	EK464 Communication Systems Design						tal Traffic and Telecommunications, uate Academic Studies	
5.					(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies			
6.	EK520	Medical Image Processing				(E10) Pow	er, Electronic and Telecommunication g, Master Academic Studies	
	EKE04	Inform	ation and C	ramana i antiana Thanana			tal Traffic and Telecommunications, Master	
7.	EK521	intorm	ation and C	ommunication Theory		(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies		
8.	H1420	Funda	mentals in l	Mechanical Vision		(H00) Mechatronics, Master Academic Studies		
9.	DE311	Select	ed Chapter	s in Pattern Recognition		(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies		
Rep	oresentative	reffere	nces (minin	num 5, not more than 10)				
1.	Petrović \ Transacti	V., Baba ions on	alola K., Co Pattern Ana	otes T., Twining C., Taylor alysis and Machine Intellig	r C.: Computin ence, 2010, Vo	g Accurate ol. 32, No 11	Correspondences across Groups of Images, IEEE , pp. 1994-2005, ISSN 0162-8828	
2.	Petrović \	V., Coot	es T.: Obje	ectively Adaptive Image Fu	usion, INFORM	FUSION, 2	007, Vol. 8, No 2, pp. 168-176, ISSN 1566-2535	
3.	208-216,	ISSN 1	566-2535				lidation, INFORM FUSION, 2007, Vol. 8, No 2, pp.	
4.				sor noise effects on signa -237, ISSN 1057-7149	ıl-level image fı	usion perfor	mance, IEEE Transactions on Image Processing,	
5.	Petrović \ 183, ISSI			sor noise effects on signa	ıl-level image fı	usion perfor	mance, INFORM FUSION, 2003, Vol. 4, pp. 167-	
6.	Petrović \ 0091-328		eas C.: Obj	ective Evaluation of Signa	ıl-level Image F	usion Perfo	rmance, OPT ENG, 2005, Vol. 44, No 8, ISSN	
7.	Images",	Internat	tional Symp		ging: From Nar		ration and Modelling of Structure in Groups of ISBI2007, pp.1-4; Print ISBN: 1-4244-0672-2;	
8.	and Anal	ysis, MI		o. 1-5; ISBN 1 901725 33 2			of Medical Images", Medical Image Understanding ar, Frédéric Labrosse; University of Wales,	
9.							on", Proceedings of 10th International Conference 09/ICIF.2007.4408120; Quebec, 9-12 July 2007	
10.	British Ma	achine \	ision Confe		sed by the Briti		mable Structure in Groups of Images", 18th Vision Association;; Conference Chairs: Abhir	
Sur	nmary data	for tead	her's scien	tific or art and professiona	l activity:			

THE STUDIOS

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES Postal Traffic and Telecommunications

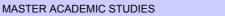


Quotation total :	1359				
Total of SCI(SSCI) list papers :	7				
Current projects :	Domestic :	2	International :	1	



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

Study Programme Accreditation



Postal Traffic and Telecommunications



Science, arts and professional qualifications

Name and last name: Se			Sečujski S. Milan						
Acad	lemic title:				Assistant Professor				
Nam	e of the inst	titution v	vhere the te	acher works full time and	Faculty of Ted	Faculty of Technical Sciences - Novi Sad			
	ng date:				15.06.2000				
Scie	ntific or art f	ield:			Telecommuni	communications and Signal Processing			
Academic carieer Year Institution							Field		
-	lemic title e	lection:	2010	Faculty of Technical Sci			Telecommunications and Signal Processing		
	thesis		2009	Faculty of Technical Sci			Telecommunications and Signal Processing		
─ ─	ster thesis		2002	Faculty of Technical Sci			Telecommunications and Signal Processing		
	elor's thesi		1999	Faculty of Technical Sci			Telecommunications and Signal Processing		
List	of courses b	eing he	ld by the te	acher in the accredited stu	udy programme	es			
	ID	Course	e name			Study pro	ogramme name, study type		
1.	EK314	Digital	Signal Pro	cessing		Undergrad (E10) Pow	asurement and Control Engineering, luate Academic Studies er, Electronic and Telecommunication		
	FK444	Digital	Filtoro				g, Undergraduate Academic Studies er, Electronic and Telecommunication		
2.	EK411	Digital	riilers			Èngineerin	g, Undergraduate Academic Studies		
						(F10) Eng Studies	ineering Animation, Undergraduate Academic		
3.	EK421	Digital Image Processing				(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies			
						, ,	er, Electronic and Telecommunication g, Undergraduate Academic Studies		
4.	Z413A	Acoustics and Noise Protection				(Z20) Envi Studies	ronmental Engineering, Undergraduate Academic		
5.	BM118B	Acoustics and Audio Engineering in Medicine			ne	(BM0) Bio Studies	medical Engineering, Undergraduate Academic		
6.	E137	Basics	of Telecon	nmunications			er, Electronic and Telecommunication g, Undergraduate Academic Studies		
7.	EK312	Acous	tics and Au	dio Engineering			er, Electronic and Telecommunication g, Undergraduate Academic Studies		
8.	EK312L	Acous	tics and Au	dio Engineering in Multime	edia	(F10) Engineering Animation, Undergraduate Academic Studies			
9.	EK422	Digital	Audio Sign	al Processing		(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies			
10.	ETI27	Audio	Engineering	9		1	(E02) Electronics and Telecommunications, Undergraduate Professional Studies		
11.	ETI35	Digital	Sound Pro	cessing		(E02) Elec Profession	ctronics and Telecommunications, Undergraduate al Studies		
10	EKEN	lafoun	ation and C	and the same		(S01) Pos Academic	tal Traffic and Telecommunications, Master Studies		
12.	EK521	iniorm	ation and C	ommunication Theory		(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies			
						(F20) Eng	ineering Animation, Master Academic Studies		
13.	EK522	Comp	uter Vision	Digital Image Processing	2)		er, Electronic and Telecommunication g, Master Academic Studies		
14.	S0151		ation of Dig ommunication	ital Signal Processing in ons		(S01) Pos Academic	tal Traffic and Telecommunications, Master Studies		
15.	SI036	Comp	uter-Teleph	ony Integration			ver, Electronic and Telecommunication g, Specialised Professional Studies		
16.	SI037	Telecommunication Infrastructure of E-Busines			ness	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies			
17.	BMIM2A	Assistive Information and Communications Techn			Technologies				
18.	EK422L	Digital	Audio Sign	al Processing		(F20) Eng	ineering Animation, Master Academic Studies		
Rep	oresentative	reffere	nces (minin	num 5, not more than 10)					



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Postal Traffic and Telecommunications



Re	presentative refferences (minimum 5, not more th	an 10)							
1.	Milan Sečujski, Radovan Obradović, Darko Pe Serbian Language", Lecture Notes in Artificial I ISSN 0302-9743.								
2.	Bojović Ž., Perić Z., Delić V., Šećerov E., Seču a live VoIP network using SIP protocol", Electro								
3.	(2012), pp. 377-389, ISSN 0924-669X								
4.	Delić V., Bojanić M., Gnjatović M., Sečujski M., Jovičić S.: Discrimination capability of prosodic and spectral features for emotional speech recognition DOI: http://dx.doi.org/10.5755/j01.eee.18.9.2806, Electronics and electrical engineering, 2012, Vol. 18, No 9, pp. 51-54, ISSN 1392-1215								
5.	Delić V., Sečujski M., Jakovljević N., Janev M., Obradović R., Pekar D.: "Speech Technologies for Serbian and Kindred South Slavic Languages", 9th Chapter in the book Advances in Speech Recognition, Noam R. Shabtai (Ed.) Available from: http://www.intechopen.com/articles/show/title/speech-technologies-for-serbian-and-kindred-south-slavic-languages, SCIYO, 2010, str. 141-164, ISBN 978-953-307-097-1								
6.	Pekar D., Mišković D., Knežević D., Vujnović Sedlar N., Sečujski M., Delić V.: "Applications of Speech Technologies in Western Balkan Countries", 7th Chapter in the book Advances in Speech Recognition, Noam R. Shabtai (Ed.) Available from http://www.intechopen.com/articles/show/title/applications-of-speech-technologies-in-western-balkan-countries, SCIYO, 2010, str. 105-122. ISBN 978-953-307-097-1								
7.	Sečujski M.: "Development of language resour "Speech and Language: Interdisciplinary Rese 139, UDK: ISBN 978-86-81879-27-6								
8.	Milan Sečujski: A Software Tool for Automatic pp. 97- 103, UDK: 004.934 : 004.4, ISSN 1451		ng in Serbian Lanç	guage, Primenjena lingvistika	a, 2008, No. 9,				
9.	Vlado Delić, Darko Pekar, Radovan Obradović Universitatis (Niš), Series: Electronics and Ene				s", Facta				
10.	Jakovljević N., Sečujski M., Delić V.: Vocal Tra EUROCON, Sankt Peterburg: IEEE, 18-23 Maj				erion, 8.				
Sur	mmary data for teacher's scientific or art and profe	essional activity:							
Quot	ation total :	0							
Tota	of SCI(SSCI) list papers :	4							
Current projects : Domestic : 2 International : 0									



Quotation total:

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

Study Programme Accreditation



Postal Traffic and Telecommunications



Science, arts and professional qualifications

Nam	e and last n	ama.			Simić S. Drag	nan .		
Academic title:					Assistant Professor			
		titution	vhere the to	eacher works full time and	Faculty of Technical Sciences - Novi Sad			
-	ng date:	V		Jasher Works full tillic allu	01.03.2009			
Scie	ntific or art f	ield:			Integral Transport and Logistics			
Academic carieer Year Institution						Field		
Acad	lemic title e	lection:	2009	Faculty of Technical Sci	ences - Novi S	ad	Integral Transport and Logistics	
PhD	thesis		2004	Faculty of Sciences - No	ovi Sad		Informatics and Computing	
Magi	ster thesis		2001	Faculty of Technical Sci	ences - Novi S	ad	Informatics and Computing	
Bach	elor's thesi	S	1987	Faculty of Technical Sci	ences - Novi S	ad	Electronics and Telecommunications	
List	of courses b	eing he	ld by the te	acher in the accredited stu	udy programme	es		
	ID	Course	e name			Study pro	ogramme name, study type	
1.	S01321	Inform	ation techn	ology basics			tal Traffic and Telecommunications, uate Academic Studies	
2.	S024N	Inform	ation techn	ologies in transport		(S00) Traf Academic	ffic and Transport Engineering, Undergraduate Studies	
3.	S0I598	E-Logi	stics			(S00) Traf Studies	ffic and Transport Engineering, Master Academic	
4.	BMIM4E	Data a	nalysis in c	linical research		 ` 	medical Engineering, Master Academic Studies	
5.	S0M22	PROJI	ECT MANA	GEMENT		(S00) Traf Studies	ffic and Transport Engineering, Master Academic	
6.	SI593	Information systems for managing Enterprisiplaning			se resource	(S01) Postal Traffic and Telecommunications, Master Academic Studies		
7.	DSA00	Logistics of Heterogeneous Intensive Proces			esses	(S00) Traf	ffic Engineering, Doctoral Academic Studies	
8.	DSIM9	E-logistics				(S00) Traf	ffic Engineering, Doctoral Academic Studies	
9.	DSN1	Logistics Systems				(OM1) Ma Studies	thematics in Engineering, Doctoral Academic	
10.	DSSL2	Select	ed topics fr	om inventory managemen	it		ffic Engineering, Doctoral Academic Studies	
11.	DSSL3		ause and s				ffic Engineering, Doctoral Academic Studies	
12.	DSSL4			ion systems		(S00) Traf	ffic Engineering, Doctoral Academic Studies	
Rep			•	num 5, not more than 10)				
1.				ć, Svetlana Simić, "Insolve 36-549 (2012) ISSN 1367-		for assessi	ng corporate financial health". Logic Journal of the	
2.				iić, Milan Cvijanović. "Clini MED – Vol. 6, Num. 4, 2			c characteristics of tension type headache in : 1840-2991	
3.				an: "Relationship between (2010) pp. 21-28	sociodemogra	aphic charac	steristics and migraine in working women".	
4.							em for financial prediction", In: Mu-Yen Chen (ed.) lag, Berlin Heidelberg (2007). ISSN 1432-7643	
5.	Ali, Floria	ına Espo		"Innovations in Applied Ar			Reasoning for Financial Prediction, In: Moonis vol. 3533, pp. 839-841. Springer-Verlag, Berlin	
6.	Distribution	on","Hyb	orid Artificia				cle Routing Problem in Logistics Springer-Verlag Berlin Heidelberg (2012), DOI:	
7.		". "Hybri					ient Classification System in Nursing Logistics pringer-Verlag, Berlin Heidelberg (2011). ISSN	
8.							Applications in Clinical Neurology", "Hybrid lin Heidelberg (2011). ISSN 0302-9743	
9.	AND SOI	T COM	iputing",				n in Logistics", "ADVANCES IN INTELLIGENT '26, ISSN 1867-5662, ISBN 978-3-642-20319-0,	
10.							kov: "Markovian Ants in a Queuing System", g, Berlin Heidelberg (2010). ISSN 0302-9743	
Sur	mmary data	for teac	her's scien	tific or art and professiona	l activity:			
				1 2				

Datum: 18.12.2012 Strana 51

0

ASTRAS STUDIOS

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Postal Traffic and Telecommunications



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



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Postal Traffic and Telecommunications



Science, arts and professional qualifications

Nam	Name and last name:					Stefanović D. Čedomir			
	demic title:				Assistant Professor				
Nam	e of the inst	itution v	vhere the te	eacher works full time and			nces - Novi Sad		
	ing date:				22.06.2004				
Scie	ntific or art f	ield:			Telecommunications and Signal Processing				
Academic carieer Year Institution				Institution			Field		
Acad	demic title el	ection:	2012				Telecommunications and Signal Processing		
PhD	thesis		2011	Faculty of Technical Sci	ences - Novi S	ad	Telecommunications and Signal Processing		
Mag	ister thesis		2006	Faculty of Technical Sci	ences - Novi S	ad	Telecommunications and Signal Processing		
Bach	nelor's thesis	3	2001	Faculty of Technical Sci	ences - Novi S	ad	Telecommunications and Signal Processing		
List	of courses b	eing he	ld by the te	acher in the accredited stu	udy programme	s			
	ID	Course	e name			Study pro	gramme name, study type		
1.	EK300	Digital	Modulation	ns .			er, Electronic and Telecommunication g, Undergraduate Academic Studies		
2.	SK300	Princip	oles of Digit	al Communications		Undergrad	tal Traffic and Telecommunications, uate Academic Studies		
3.	BM119B	Wirele	ss sensor r	etworks		(BM0) Bio Studies	medical Engineering, Undergraduate Academic		
4.	BMI102	Comm	unication S	ystems		(BM0) Bio Studies	medical Engineering, Undergraduate Academic		
5.	EK320	Principles of digital communications					E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
6.	EK453	SCAD	A Systems	Design			E10) Power, Electronic and Telecommunication ingineering, Undergraduate Academic Studies		
7.	EK459	Wireless sensor networks					er, Electronic and Telecommunication g, Undergraduate Academic Studies		
8.	ETI11	Communication systems				(E02) Elec Profession	ctronics and Telecommunications, Undergraduate al Studies		
9.	ETI33	Wirele	ss sensor r	networks			E02) Electronics and Telecommunications, Undergraduate Professional Studies		
10.	S1328P	Princip	les of digita	al modulations		(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies			
11.	DE110S	Stocha	astic Proces	sses in Telecommunication	ns	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies			
12.	DE111S	Algorit	hms for Dig	ital Signal Processing		(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies			
13.	DE512S	Humar	n-Machine S	Speech Communication			ver, Electronic and Telecommunication g, Specialised Academic Studies		
14.	S0152	Next C	Generation ⁻	Felecommunication Netwo	orks	(S01) Pos Academic	tal Traffic and Telecommunications, Master Studies		
15.	SI027	Advan	ced IP Com	nmunications		(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies			
Re	presentative	reffere	nces (minin	num 5, not more than 10)					
1.	Stefanovi ad-hoc ne	ć Č., Vι etworks,	ıkobratović Ad Hoc Ne	D., Stanković V., Fantacc etworks, 2012, ISSN 1570	i R.: Packet-ce -8705	entric approa	ach for distributed sparse-graph coding in wireless		
2.				the Search for a Sequenc on Communications, 201			Sequences in Random and Framed Data 97, ISSN 0090-6778		
3.	Dissemin	ation Us	sing UEP R				rban Infrastructure-to-Vehicle Traffic Data Communications, 2011, Vol. 29, No 1, pp. 94-102,		
4.	Sensor N	etworks		rnal on Selected Areas in			ket Approach for Data Gathering in Wireless ol. 28, No 7, pp. 1169-1179, ISSN 0733-8716,		
5.	Internatio	nal Con	ference on	D., Crnojević V., Stankov Wireless On-demand Net 26-28 Januar, 2011, pp. 1	work Systems	and Service			



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Postal Traffic and Telecommunications



Rep	oresentative r	efferences (minimum 5, not more th	an 10)					
6.	Notes in Co	Č., Bajić D.: Acquisition Times of Computer Science, LNCS, 2010, pp. 9, 2010, pp. 55-66, ISBN 978-3-642-	55-66, 6. Sequences a					
7.	Computer	efanović Č.: Statistical Analysis of S Science, LNCS, 2010, pp. 320-332, 20-332, ISBN 978-3-642-15873-5						
8.	Vukobratović D., Stefanović Č., Stankovic V.: Fireworks: A Random Linear Coding Scheme for Distributed Storage in Wireless Sensor Networks, 2. IEEE Information Theory Workshop ITW, Dablin: IEEE, 30-3 Avgust, 2010, pp. 1-5, ISBN 978-1-4244-8262-, UDK: 10.1109/CIG.2010.5592800							
9.	Rateless C	Č., Crnojević V., Vukobratović D., Noding with Constrained Data Gatheraen: ACM, 5-8 Jul, 2010, pp. 671-67	ring, 6. ACM Internatio	nal Wireless Con	•			
10.	Stefanović Č., Vukobratović D., Karabenč T., Rovčanin M., Crnojević V.: On Energy Efficiency of Rateless Packet Scheme for							
Sur	nmary data fo	or teacher's scientific or art and profe	essional activity:					
Quot	ation total:		57					
Total	of SCI(SSCI) list papers :	4					
Curre	ent projects :		Domestic :	2	International:	2		



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

Study Programme Accreditation



Postal Traffic and Telecommunications



Science, arts and professional qualifications

Name and last name:						Šarac D. Dragana				
Academic title:					Assistant Professor					
Name of the institution where the teacher works full time and				ull time and	Faculty of Te	Faculty of Technical Sciences - Novi Sad				
starti	ng date:					01.08.2011				
Scie	Scientific or art field:					Integral Transport and Logistics				
Academic carieer Year Institution								Field		
Acad	lemic title e	lection:	2011			ences - Novi S		Integral Transport and Logistics		
PhD	thesis		2009			ences - Novi S		Postal Traffic and Communications		
Magi	ster thesis		1999	Faculty of Tr	ansport and	d Traffic Engine	eering -	Postal Traffic and Communications		
Bach	elor's thesi	S	1992	Faculty of Ed	conomics - S	Subotica		Economic Science		
List	of courses b	eing he	ld by the te	acher in the ac	credited stu	udy programme	es			
	ID	Course	e name				Study pro	ogramme name, study type		
1.	S01433	Financ	cial Operati	ons in Postal T	raffic			tal Traffic and Telecommunications, uate Academic Studies		
2.	S01361	Busine	ess decision	n making				tal Traffic and Telecommunications, luate Academic Studies		
3.	S01381	Direct	marketing				, ,	tal Traffic and Telecommunications, luate Academic Studies		
4.	S01471	Change management						tal Traffic and Telecommunications, luate Academic Studies		
5.	S020N	Economics of traffic				, ,	Postal Traffic and Telecommunications, graduate Academic Studies			
6.	S0153	New Technologies and Services in Postal Traffi				raffic		(S01) Postal Traffic and Telecommunications, Master Academic Studies		
7.	S1I583	Models of Postal Network Management				(S01) Pos Academic	tal Traffic and Telecommunications, Master Studies			
8.	S1I593	Electronic postal services				(S01) Pos Academic	tal Traffic and Telecommunications, Master Studies			
9.	DSSP1	management					ffic Engineering, Doctoral Academic Studies			
10.	DSSP2	organi	zation	s from the field				ffic Engineering, Doctoral Academic Studies		
11.	DSSP3	marke	t research	s from the field	•		(S00) Traffic Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies			
12.	DSSP4	in post	tal traffic				(300) 11ai	inc Engineering, Doctoral Academic Studies		
Rep			•	num 5, not mo	•					
1.				arac D.: Activi I3, No 3, ISSN			costs and re	evenue of universal postal service operator,		
2.	2013, No	3, ISSN	N 1582-221	4, in press		, , , , , ,	<u>'</u>	edicting waiting time, Metalurgia international,		
3.						viding universa 1165, ISSN 199		vice in developing countries, African Journal of		
4.								ion of Universal Postal Service, 15. International 5 Septembar, 2011, pp. 29-37, ISBN 978-86-7892-		
5.						ork and optimiz 2010, pp. 66-6		urces at the level of municipalities in Serbia, 12.		
6.		Kujačić	6 M., Jovan					područjima Republike Srbije, Tehnika, 2010, pp.		
7.						kovima u pošta 11, ISSN 1450-		raćaju primenom ABC (Activity based costing)		
8.			: Konkurer 978-86-739		kih operator	ra sa stanovišta	a efikasnosti	, 28. PosTel, Beograd, 14-15 Decembar, 2010,		
9.				čić M.: The sy mOrg, Zlatibor			partnerships	in providing the universal postal service, 13.		
10.	Ožegović	S., Šar	ac D., Dum		portance of		mentation a	nd categorization in key account management in		
	-									

RESTRAS STUDIOS

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Postal Traffic and Telecommunications



				_				
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				
•								



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

Study Programme Accreditation



Postal Traffic and Telecommunications



Science, arts and professional qualifications

Nam	e and last n	ame:				Šećerov E. Emil			
Acad	Academic title:					Assistant Professor			
		titution v	vhere the te	eacher works full time	e and	Faculty of Technical Sciences - Novi Sad			
-	ing date:					01.09.1987			
Scie	ntific or art f	ield:		Ť		Telecommunications and Signal Processing			
Acad	demic caries	er	Year	Institution		Field			
Acad	demic title e	lection:	2009					Telecommunications and Sig	nal Processing
PhD	thesis		1998	Faculty of Technic	cal Sci	ences - Novi Sa	ad	Electrical and Computer Engi	
-	ister thesis		1993	Faculty of Technic				Electrical and Computer Engi	
Bacl	nelor's thesi	S	1987	Faculty of Technic	cal Sci	ences - Novi S	ad	Electrical and Computer Engi	ineering
List	of courses b	eing he	ld by the te	acher in the accredit	ted stu	udy programme	s		
	ID	Course	e name				Study pro	ogramme name, study type	
1.	EK458	Teleco	mmunication	on networks				er, Electronic and Telecommur g, Undergraduate Academic S	
2.	S1329P	Introdu	uction to Co	mmunication Netwo	orks		Ùndergrad	tal Traffic and Telecommunica uate Academic Studies	
3.	S1437P	Teleko	munikacio	ne mreže i saobraćaj	ij		Ùndergrad	tal Traffic and Telecommunical uate Academic Studies	
4.	DE111S	Algorit	hms for Dig	ital Signal Processir	ng		Engineerin	ver, Electronic and Telecommung, Specialised Academic Studi	es
5.	EK532	32 Telecommunication System Software				(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies			
6.	EK535	Computer Telephone Integration				(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies			
7.	S0152	Next Generation Telecommunication Networks			orks	(S01) Pos Academic	tal Traffic and Telecommunica Studies	tions, Master	
						(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies			
0.	8. DE111 Algorithms for Digital Signal Processing				(OM1) Mathematics in Engineering, Doctoral Academic Studies				
Representative refferences (minimum 5, not more than 10)									
1.	Kovačevi Science	ć V., Po Journal,	pović M., Š Vol 17, No	sećerov E., "Require . 1, 1991, pp 61-65.	ments	for Operating	Systems inc	cluded in Virtual Machine Syste	m", System
2.	Kovačović V. Popović M. Čećarov E. "Dogwiromenta for Operating Systems included in Virtual Machine Systems" International						m", International		
3.	Šećerov	E., Tesli	ić N., Popo	vić M., "Efficient kerr	nel for	real-time syste	ms operatir	ng in non-deterministic envirom Poland, 1995, pp 104-111.	ent", Procedeengs
4.								g Protocol in Telephone Excha 3, Wroclaw, Poland, 1995, pp	
5.								ssing Elements in Strored Progronics, Budapest, 1995, pp 263	
6.	Kovačević V., Popović M., Šećerov E., Manojlović Z., Škrbić M., "Software Concept apllied in subscriber digital concentrator ACK								
7.	Pender M. Čećerav E. Čenk V. Penav S.: "Application Cataway between Open and Legacy Systems" Europea 2005. The						con 2005, The		
8.	Popović M. Kovačević V. Šećerov E. "Merenje ansolutnog vremena u VMS". VIII Simpozijum o informacjonim tehnologijama								
9.				rca Ž., Djordjević S., /III, Novi Sad, 1989,			uslova za u	ključivanje OS u VMS", XXXIII	Jugoslovenska
10.	Potković M. Popović M. Šeđerov E. "Segmentiranje magnetnog medijuma sa direktnim pristupom kan podrška sistemu virtuslnih								
Su	mmary data	for teac	her's scien	tific or art and profes	ssiona	l activity:			
Quo	tation total :				0				
Tota	of SCI(SS	CI) list p	apers :		1			·	
Curr	ent projects	:			Dome	estic :	0	International :	0



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

Study Programme Accreditation





Science, arts and professional qualifications

Name and last name.								
Name and last name: Academic title:					Šenk I. Vojin Full Professor			
		itution v	whore the te	eacher works full time and				
	ng date:	itution v	viiere ure te	acher works full tillle and	01.01.1987	orii iloai oolo	Hoos How out	
	ntific or art f	ield:			Telecommunications and Signal Processing			
Acad	emic carie	r	Year	Institution			Field	
Acad	emic title el	ection:	2003	Faculty of Technical Sci	ences - Novi Sa	ad	Telecommunications and Signal Processing	
PhD	thesis		1992	School of Electrical Engi			Telecommunications and Signal Processing	
Magi	ster thesis		1989	School of Electrical Engi	ineering - Beog	rad	Telecommunications and Signal Processing	
Bach	elor's thesis	3	1981	Faculty of Technical Sci	ences - Novi Sa	ad	Telecommunications and Signal Processing	
List c	of courses b	eing hel	ld by the tea	acher in the accredited stu	udy programme	s		
	ID	Course	e name			Study pro	gramme name, study type	
1.	EK310	Introdu	uction to Infe	ormation Theory		Studies	medical Engineering, Undergraduate Academic	
							er, Electronic and Telecommunication g, Undergraduate Academic Studies	
2.	EK462	Entrep	reneurship	in ICT		(E10) Pow	er, Electronic and Telecommunication g, Undergraduate Academic Studies	
3.	EK464	Comm	unication S	vstems Design		(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies		
		Communication Systems Design				(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
4.	DE310S	Encoding and Signal Transmission Techniqu			ques	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies		
5.	DE510S	Algorithms of Signal Detection and Estimation			on	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies		
6.	EK521	Information and Communication Theory			Academic Studies (E10) Power, Electronic and Telecommunication			
						Engineerin	g, Master Academic Studies er, Electronic and Telecommunication	
7.	EK533	Detection and Estimation				Engineerin	g, Master Academic Studies	
8.	EK534	Crypto	graphy Sys	stem for Data Protection		Studies	thematics in Engineering, Master Academic er, Electronic and Telecommunication	
							g, Master Academic Studies	
9.	EK536	Coding	g Technique	es		(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies		
10.	RPR004		reneurship, versities	, Innovation, Knowledge R	Regions - Role	(RPR) Regional Development Planning and Management, Master Academic Studies		
		Selected Chapters in Telecommunications at Processing		and Signal	(E20) Computing and Control Engineering, Doctoral Academic Studies			
11.	DAU001			anu oignai	(H00) Med	chatronics, Doctoral Academic Studies		
						(OM1) Mathematics in Engineering, Doctoral Academic Studies		
12.	DE310	Encod	ding and Sig	gnal Transmission Technic	ques	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies		
13.	DE510	Algorit	hms of Sigr	nal Detection and Estimati	on	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies		
Rep	resentative	reffere	nces (minin	num 5, not more than 10)				
1.							g ACE Spectrum, IEEE Transactions on 0.1109/TCOMM.2009.08.070548	
2.	2. Sejdinović D., Vukobratović D., Doufexi A., Šenk V., Piechocki R.: Expanding Window Fountain Codes for Unequal Error Protection, IEEE Transactions on Communications, 2009, Vol. 57, No 9, pp. 2510-2516, UDK: 10.1109/TCOMM.2009.09.070616							
3.	3. Vukobratović D., Šenk V.: Generalized ACE Constrained Progressive Edge-Growth LDPC Code Design , IEEE Communications Letters, 2008, Vol. 12, No 1, pp. 32-34, ISSN 1089-7798, UDK: 10.1109/LCOMM.2008.071457							



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Postal Traffic and Telecommunications

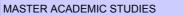


Re	Representative refferences (minimum 5, not more than 10)						
4.	V. Crnojević, V. Šenk, Ž. Trpovski, "Advanced Impulse Detection Based on Pixel-Wise MAD", IEEE Signal Processing Letters, vol.11, no. 7, 2004, pp. 589-593.						
5.	D. Bajić, V. Šenk, M. Despotović, "Subsets of the STM-1 frame-alignment signal: a monitoring analysis", IEE Proc. Commun., vol. 149, no. 5, Oct. 2002. pp. 242-248.						
6.	Miroslav Despotović, Vojin Šenk, Bartolomeu F. Uchôa Filho,"DISTANCE SPECTRA OF CONVOLUTIONAL CODES OVER PARTIAL-RESPONSE CHANNELS", IEEE Transactions on Communications, vol. 49, no.7, pp. 1121-1124, July 2001.						
7.	Kovačević M., Šenk V.: On Possible Dependence Structures of a Set of Random Variables, Acta Mathematica Hungarica, 2012, Vol. 135, No 3, pp. 286-296						
8.	Bojović Ž., Perić Z., Delić V., Šećerov E., Sečujski M., Šenk V.: "Comparative Analysis of the Performance of Different Codecs in a live VoIP network using SIP protocol", Electronics and electrical engineering, 2012, Vol. 117, No 1, pp. 37-42, ISSN 1392-1215						
9.	Bojović Ž., Šećerov E., Dobromirov D., Šenk V.: Maximizing the Profit of Telecom Telcos by a Novel Traffic Scheduling Policy, Electronics and electrical engineering, 2011, Vol. 7, No 113, pp. 67-73, ISSN 1392-1215						
10.	Bojović ž., Šenk V., Dobromirov D., Bojović P.: Intervendor working of VOIP networks , Journal of the Institute of Telecommunications Professionals, 2011, Vol. 5, No 3, pp. 26-32, ISSN 1755-9278						
Sur	Summary data for teacher's scientific or art and professional activity:						
Quotation total : 141							
Total of SCI(SSCI) list papers : 18							
Curre	ent projects :	Domestic :	3	International :	3		



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

Study Programme Accreditation



Postal Traffic and Telecommunications

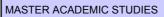


Science, arts and professional qualifications

Name and last name:					Trpovski V. Željen			
Academic title:					Associate Professor			
		titution v	vhere the te	eacher works full time and		chnical Scie	nces - Novi Sad	
	ing date:				01.02.1985			
	ntific or art f				Telecommuni	Telecommunications and Signal Processing		
	demic carie		Year	Institution			Field	
	demic title e	lection:	2009	Faculty of Technical Science			Telecommunications and Signal Processing	
	thesis		1998	Faculty of Technical Science			Telecommunications and Signal Processing	
Ť	ister thesis		1991	School of Electrical Engi			Telecommunications and Signal Processing	
	nelor's thesi		1981	Faculty of Technical Science			Telecommunications and Signal Processing	
List	of courses b	eing he	ld by the tea	acher in the accredited stu	idy programme	es I		
	ID	Course	e name			Study pro	ogramme name, study type	
1.	EK310	Introdu	action to Inf	ormation Theory		Studies	medical Engineering, Undergraduate Academic er, Electronic and Telecommunication	
							g, Undergraduate Academic Studies	
2.	EK435	Optica	l Communio	cations			tal Traffic and Telecommunications, luate Academic Studies	
3.	EK201	Signal	s and Syste	ems			er, Electronic and Telecommunication g, Undergraduate Academic Studies	
4.	EK451	Audio	and Video ⁻	Technologies		(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
5.	ETI08	Telecommunication systems and signals				(E02) Electronics and Telecommunications, Undergraduate Professional Studies		
6.	S1215P	Analysis of Telecommunication signals				(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies		
7.	S1220P	Analysis of Telecommunication Systems				(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies		
8.	DE110S	Stochastic Processes in Telecommunications			าร		ver, Electronic and Telecommunication g, Specialised Academic Studies	
9.	DE412S	Digital image processing algorithms					ver, Electronic and Telecommunication g, Specialised Academic Studies	
10.	E1SO01	Modern technologies in electrical engineering			ng		ver, Electronic and Telecommunication g, Specialised Professional Studies	
11.	EK521	Inform	ation and C	Communication Theory		Academic		
						(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies		
12.	DE110	Stocha	astic Proces	sses in Telecommunication	าร		ver, Electronic and Telecommunication g, Doctoral Academic Studies	
	52110	Stochastic Processes in Telecommunications				(OM1) Ma Studies	thematics in Engineering, Doctoral Academic	
13.	DE412	Digital	Image Pro	cessing Algorithms			ver, Electronic and Telecommunication g, Doctoral Academic Studies	
13.	DE412 Digital Image Processing Algorithms					(OM1) Mathematics in Engineering, Doctoral Academic Studies		
Rep	presentative	reffere	nces (minin	num 5, not more than 10)				
1.	Ispitivanj	e statisti	čkih osobin	na digitalnog prenosa u Uk	T FM radio dif	uziji primeno	om sistema RDS	
2.	Uniformn	e i neun	iformne filta	ar banke i njihova primena	u kompresiji s	ignala slike		
3.	Ž Trnovski. "Poliability Toeting Method for PDS Pased on the PL Code Statistics". IEEE Trans. on Consumer Floatronics. Vol 37							
4.		ki, "Con			ted lapped trar	nsforms", El	ectronics Letters, Vo.33, No. 24, November 1997,	
5.	Vesna Ze	eljković,				of Building	Images in Video Sequences", IEE Electronics	
Щ	Letters, Vol. 40, No. 3, 5th February 2004, pp. 169-170.							

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





Postal Traffic and Telecommunications



Re	Representative refferences (minimum 5, not more than 10)								
6.	V. Crnojević, V. Šenk, Ž. Trpovski, "Advanced Impulse Detection Based on Pixel-Wise MAD", IEEE Signal Processing Letters, Vol.11, No. 7, July 2004, pp.589-592.								
7.	M.Temerinac, A.Kozarev, Z.Trpovski, B.Šimšić, An Efficient Image Compression Algorithm Based on Filter Bank Analysis and Fractal Theory, Proc. of EUSIPCO-92, Sixth European Signal Processing Conference, Brussels, Vol.III, pp.1373-1376.								
8.	J.Knezevic, V.Katic, Z.Trpovski, D.Graovac: "Modulated Lapped Transforms Filter Bank Technique Application For AC/DC Converter Power Quality Analysis", Power Quality Conference - PCIM-PQ 2000, Nuremberg (Germany), June 2000, published on CD-ROM.								
9.	T.Lončar-Turukalo, V.Crnojević, Ž.Trpovski, Image Compression by Decomposition into Bit Planes, 5th International Conference on Telecommunications in Modern Satelite, Cable and Broadcasting Services, TELSIKS 2001, Niš.								
10.	V.Zeljković, Ž.Trpovski, V.Šenk, Improved Illumination Independent Moving Object Detection in Real World Video Sequences, 4t International Conference on Video-Image Processing and Multimedia Communications, Zagreb, Croatia, July 2003.								
Summary data for teacher's scientific or art and professional activity:									
Quot	ation total :	14							
Tota	of SCI(SSCI) list papers :	4							
Curr	ent projects :	Domestic :	1	International :	1				



Datum: 18.12.2012

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

Study Programme Accreditation



Postal Traffic and Telecommunications



Strana 62

Science, arts and professional qualifications

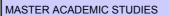
Nam starti Scie	ing date:	titution v								
starti Scie	ing date:	titution v			Vukobratović V. Dejan Assistant Professor					
Scie			vhere the te	eacher works full time and	Faculty of Technical Sciences - Novi Sad					
	ntific or art f	starting date:					01.11.2003			
٨٠٠٠	Scientific or art field:					Telecommunications and Signal Processing				
Acac	demic cariee	er	Year	Institution			Field			
Acad	demic title el	lection:	2009	Faculty of Technical Sci	ences - Novi S	ad	Telecommunications and Signal Processing			
PhD	thesis		2008	University of Novi Sad -	Novi Sad		Telecommunications and Signal Processing			
Mag	ister thesis		2005	Faculty of Technical Sci	ences - Novi Sa	ad	Telecommunications and Signal Processing			
Bach	nelor's thesis	S	2001	Faculty of Technical Sci	ences - Novi Sa	ad	Telecommunications and Signal Processing			
List	of courses b	eing he	ld by the tea	acher in the accredited stu	udy programme	s				
	ID	Course	e name			Study pro	gramme name, study type			
1.	BM119B	Wirele	ss sensor n	networks		(BM0) Bio Studies	medical Engineering, Undergraduate Academic			
2.	BMI102	Comm	unication S	ystems		(BM0) Bio Studies	medical Engineering, Undergraduate Academic			
3.	EK200			ls for Communications an	d Signal		asurement and Control Engineering, uate Academic Studies			
J.	LINZOO	Proces	ssing 2			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies				
4.	EK203	Modelling and Simulation of Communication Systems			n Systems	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies				
5.	EK321	IP technology				(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies				
6.	ETI21	Communication Protocols				(E02) Electronics and Telecommunications, Undergraduate Professional Studies				
7.	ETI23	Wireless Communications				(E02) Electory (E02) Profession	ctronics and Telecommunications, Undergraduate al Studies			
8.	ETI31	Video Technology				(E02) Electronics and Telecommunications, Undergraduate Professional Studies				
9.	S1329P	Introdu	ıction to Co	mmunication Networks		(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies				
10.	DE414S	Moder	n Coding T	heory			ver, Electronic and Telecommunication g, Specialised Academic Studies			
11.	DE514S	Multim	edia Proce	ssing and Communication	ıs	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies				
12.	S0152	Next G	Seneration 7	Telecommunication Netwo	orks	(S01) Postal Traffic and Telecommunications, Master Academic Studies				
13.	SI015	Integra	ated Service	es Digital Network (ISDN)		(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies				
14.	SI016	Advan	ced ISDN N	letworks		(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies				
15.	SI027	Advanced IP Communications			(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies					
16.	BMIM2D	Information theory in biosystems				medical Engineering, Master Academic Studies				
17.	DE414	Mode	rn Coding T	heory		Èngineerin	ver, Electronic and Telecommunication g, Doctoral Academic Studies			
18. DE514 Multimedia Processing and Communications (E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies										
Re	presentative	reffere	nces (minin	num 5, not more than 10)						
1.	Vukobratović D., Stanković V., Sejdinović D., Fagoonee-Stankovic L., Xiong Z.: Scalable Video Multicast Using Expanding Window Fountain Codes, IEEE Transactions on Multimedia, 2009, Vol. 11, No 6, pp. 1094-1104, ISSN 1520-9210, UDK: 10.1109/TMM.2009.2026087									

Stefanović Č., Vukobratović D., Stanković V., Fantacci R.: Packet-centric approach for distributed sparse-graph coding in wireless ad-hoc networks, Ad Hoc Networks, 2012, ISSN 1570-8705



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

Study Programme Accreditation



Postal Traffic and Telecommunications



Re	Representative refferences (minimum 5, not more than 10)							
3.	Stefanović Č., Vukobratović D., Chiti F., Niccolai L., Crnojević V., Fantacci R.: Urban Infrastructure-to-Vehicle Traffic Data Dissemination Using UEP Rateless Codes, IEEE Journal on Selected Areas in Communications, 2011, Vol. 29, No 1, pp. 94-102, ISSN 0733-8716, UDK: 10.1109/JSAC.2011.110110							
4.	Vukobratović D., Stefanović Č., Chiti F., Crnojević V., Fantacci R.: Rateless Packet Approach for Data Gathering in Wireless Sensor Networks, IEEE Journal on Selected Areas in Communications, 2010, Vol. 28, No 7, pp. 1169-1179, ISSN 0733-8716, UDK: 10.1109/JSAC.2010.100921							
5.	Sejdinović D., Vukobratović D., Doufexi A., Šenk V., Piechocki R.: Expanding Window Fountain Codes for Unequal Error Protection, IEEE Transactions on Communications, 2009, Vol. 57, No 9, pp. 2510-2516, UDK: 10.1109/TCOMM.2009.09.070616							
6.	Vukobratović D., Šenk V.: Design and Evaluation of Irregular LDPC Codes Using ACE Spectrum, IEEE Transactions on Communications, 2009, Vol. 57, No 8,, pp. 2272-2279, ISSN 0090-6778, UDK: 10.1109/TCOMM.2009.08.070548							
7.	Dejan Vukobratovic, Vojin Senk: "Generalized ACE Constrained Progressive-Edge-Growth LDPC Code Design", IEEE Communications Letters, Vol.12, No.1, pp. 32-34, January 2008.							
8.	Stefanović Č., Vukobratović D., Stanković V., Fantacci R.: Packet-centric approach for distributed sparse-graph coding in wireless ad-hoc networks, Ad Hoc Networks, 2012, ISSN 1570-8705							
9.	Vukobratović D., Vladimir S.: Unequal Error Protection Random Linear Coding Strategies for Erasure Channels, IEEE Transactions on Communications, 2012, Vol. 60, No 5, pp. 1243-1252							
10.	Vukobratović D., Clavier L., Matthias W., Werner T., Andreas C., Kimmo K.: Adaptive Coding, Modulation and Signal Processing - in Pervasive Mobile and Ambient Wireless Communications, Heidelberg, Springer, 2012							
Sui	Summary data for teacher's scientific or art and professional activity:							
Quo	tation total :	0						
Total of SCI(SSCI) list papers: 9								
Curr	ent projects :	Domestic :	0	International :	2			



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Postal Traffic and Telecommunications



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 Postal Traffic and Telecommunications 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 more than 100 library units relevant to the performance of Postal Traffic and Telecommunications study programme. All the courses of the study programme 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.



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES Postal Traffic and Telecommunications



Standard 11. Quality Control

The quality control of the study programme is performed regularly and systematically through selfevaluation 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.

ASTRAS STUDIO

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES Postal Traffic and Telecommunications



Standard 12	Distance Educ	ation
Statiualu 12.	Distance Educ	auon

Distance learning is not provided for.