STUDY PROGRAMME ACCREDITATION MATERIAL:

POWER SOFTWARE ENGINEERING

UNDERGRADUATE ACADEMIC STUDIES

Novi Sad

2012.

Prevod sa srpskog jezika:

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Programme name	Power Software Engineering
Independent higher education institution where the programme is being executed	University of Novi Sad
Higher education institution where the programme is being executed	Faculty of Technical Sciences
Educational-scientific/educational-art field	Technical-Technological Science
Scientific, proffesional or art field	Electrical and Computer Engineering
Type of studies	Undergraduate Academic Studies
Study scope, expressed in ECTS	240
Academic degree, abbreviation	Bachelor with Honours in Electrical and Computer Engineering, B.El.Comp.Eng.
Study length	4
Programme implementation starting year	
Future course implementation starting year (for new programme)	2013
Number of students attending this programme	0
Planned number of students to be enrolled in this programme	240
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	
Web address containing programme information	http://www.ftn.uns.ac.rs

Standard 00. Introduction

The study program of Undergraduate Academic Studies of Power Software Engineering has the purpose to educate the students who will work on the design and development of software as support to power systems. It has been formed on the basis of long-lasting development of the study programs of Power, Electronic and Telecommunication Engineering and Computing and Control Engineering at the Faculty of Technical Sciences in Novi Sad. It is the result of the need for more profound research of the problem of designing specialized software for power systems representing the functioning base of the society in general.

Power Software Engineering is the field of studies intended for students who are interested, within their future professional orientation, in development of software for planning, organization, managing, monitoring and control of power systems.

Unlike the study programs dealing with the computer science in general, the Power Software Engineering applies a domain oriented approach with the intention to use the properties and problems of power systems as a context to introduce the methods and techniques of software engineering. In this way, the general skill of software engineering is obtained, but at the same time, specific knowledge about the design of specialized software for power systems is acquired.

The study program of Power Software Engineering is a result of practical needs – lack in experts qualified for development of specialized software which has become a necessity in a well-functioning modern society. Thisstudy program at the level of Undergraduate Academic Studies provides the students with general theoretical and practical knowledge, and upon opting for the subjects of interest, they are able to further their practical knowledge into skills necessary for the work in target area of application.

Standard 01. Programme Structure

The name of the study program is Power Software Engineering. The academic title earned is Bachelor in Electrical and Computer Engineering. The outcome of the learning process is theoretical knowledge, practical skills providing Bachelor Engineers of this professional orientation with the possibility of dealing with the software intended for the power systems. The application of such acquired knowledge and skills to the problems occurring in the field of expertise enables not only the successful professional activity, but also the continuance of education at the level of Master Studies.

Requirements for the enrolment in the study program are finished high school.
At the studies of Power Software Engineering, lasting for four years, all the eight semesters are in common for all the students, but optional subjects enable students to shape their studies in a specific way, according to their personal inclination and wishes.

The teaching methods are lectures, auditory, calculation and computer practice. Special forms of teaching activities are homework, seminar papers, projects – all intended for the practical case studies in the corresponding research field. Special attention is paid to practical work in the utilities. Depending on the type of practice, the size of groups is determined. The number of acquired ECTS is formulated on the basis of a uniquemethodology and shows the engagement of students in all forms of teaching activities. Studies are considered finished when a student fulfills all its obligations prescribed by the study program, passes the exams, writes and defends the final – graduation paper and acquires at least 240 ECTS.

Standard 02. Programme Objectives

The purpose of the study program of Power Software Engineering is educating the students for the profession of Bachelor in Electrical and Computer Engineering in accordance with the society's needs.

The study program of Power Software Engineering is conceived so that holders of Bachelor Degree in ElectricalandComputer Engineering acquire the competence in the field of software development in general, as well as the software for power systems, in this way providing the basis for social justification and usefulness of this program and its perspective. The Faculty of Technical Sciences in Novi Sad has defined basic assignments and goals in order to provide the education to highly competent resources in the field of engineering, technology, organizationmanagement. The purpose of the study program of Power Software Engineering is in full compliance with thementioned basic assignments and goals of the Faculty of Technical Sciences in Novi Sad.

The realization of such a conceived study program means the education to holders of Bachelor Degree in Electrical and Computer Engineering and providing them with the competence in line with both European and world educational standards.

Standard 03. Programme Goals

The goal of the study program of Power Software Engineering is the acquisition of knowledge in all the relevant disciplines of modern information technologies and gaining specific practical skills required for design and development of software for power systems. This includes fostering of creativity in the problem solving process andthe ability of critical thinking, but also the encouragement of team work.

Specific goals, which are in accordance with the goals of Undergraduate Academic Studies at the Faculty of Technical Sciences in Novi Sad, are to raise awareness of the need for constant personal advancement as well as to foster the ability of presenting and communicating one's knowledge and results not only to colleagues, but also to both professional and general public. Another goal is to raise awareness of the problems and responsibilities of professional practice among which are the questions of safety, ethics and ecology and social growth as well.

Standard 04. Graduates` Competencies

Upon completing the study program of Power Software Engineering, holders of Bachelor Degree in Electrical and Computer Engineering are capable of analyzing the professional problems, synthesizing the solutions to the problems, making critical evaluation of advantages or disadvantages of the solutions, as well as making expert decisions. They have the capacity to continue with their education at the level of Master Studies.

Specific skills – knowledge and skills of holders of Bachelor Degree in Electrical and Computer Engineering, acquired in this study program include detailed knowledge and understanding of disciplines relevant for this study program as the basis for successful dealing with practical problems with the application of appropriatemethods and procedures. The ability to relate the basic theoretical knowledge in various fields with their practical application is specially emphasized. Holders of Bachelor Degree in Electrical and Computer Engineering are capable of formulating, elaborating and presenting of the results of their work in an appropriate way.
Holders of Bachelor Degree in Electrical and Computer Engineering have the competence to apply the acquired knowledge and skills in the practice and to continually make innovations to the knowledge and skills. In addition, they become qualified for any cooperation in local and international social, public and professional environment.

Finally, holders of Bachelor Degree in Electrical and Computer Engineering are capable of participating in team work and application of the principle of professional and business ethics.

Standard 05. Curriculum

The curriculum of Undergraduate Academic Studies of Power Software Engineering meets all the set requirements.The structure of the study program includes about 15% of courses of academic and general education subjects,about 20% of courses of theory and methodology subjects, about 35% of courses of scientific expertise subjects and 30% of courses of expertise application subjects. The standard requiring that the optional subjects are included with at least 20% of ECTS credits is fulfilled.

In addition to the mentioned global structure, the subjects constituting this study program are classified in the following groups:
- Group of Academic and General Education subjects
- Group of Electrical Engineering subjects
- Group of Control Engineering subjects
- Group of Power Engineering subjects
- Group of Computer Engineering subjects
- Group of Computer Science Application in Power Engineering subjects

The first three years include the basic, general and common education of all students in this study program and at the fourth year students opt for one of the study groups, in accordance with their inclination and wishes.
All the subjects are one-semester and carry a certain number of ECTS credits where a point approximately corresponds to 30 classes of students' activities. The sequence of subjects within the study program is such thatthe knowledge required for the subjects that follow is acquired in the preceding subjects. The curriculum includes descriptions of each subject with the name and type of subject, year and semester of the studies, number of ECTS credits, lecturer's name, requirements for passing of the exams, objective of the subjects with anticipated outcome and competence, content of the subjects, teaching methods, knowledge verification and evaluation, recommended literature and other information.

The study program is in accordance with European standards regarding the entrance requirements, duration of studies, requirements for enrolment in the following year of studies, diploma acquiring and the concept of studies.

The integral part of the curriculum of the study program of Power Software Engineering is an internship – practical work with the duration of 45 classes which is completed in appropriate scientific and research oriented institutions, in organizations performing innovations related activities, in organizations giving infrastructure related support to innovation activities and in commercial organizations and public utilities.

The students finish the studies by writing a graduation paper consisting of theoretical and methodology preparation necessary for more profound understanding of the expert field the paper relates to and completing a final graduation paper representing the application of acquired knowledge and skills on the basis of a concretepractical case.

Prior to the defense of the graduation paper the students pass the theoretical and methodology base before the mentor to the paper. The final grade of the graduation paper is derived from the grade of theoretical and methodology preparation and the paper grade formed on the basis of the quality of the submitted paper, its presentation and answers given to the questions of the committee present at the defense of the paper consisting of at least 3 lecturers.

Table 5.2 Course specification

Course:		Discrete Mathematics
Course id:	E101	
Number of ECTS:	9	
Teachers:		Doroslovački D. Rade, Lukić J. Tibor
Course status:		Mandatory

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
4	4	0	0	0

Precondition courses: None

1. Educational goal:

Enabling students to think abstractly and gain new knowledge in the field of elementary, general, abstract and linear algebra, as well as in the fundamentals of classic combinatorics.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in further education and professional courses. Mathematical models are designed and solved in professional courses using the material from this course.

3. Course content/structure:

Lectures (Theoretical lectures). Logic, relations, functions, Boolean algebra, groups, rings, fields, polynomials, complex numbers, finite fields, free vectors, analytical geometry in space (vector!), determinants, systems of linear equations, vector space, matrices, characteristic roots and vectors. Practice lectures (lab): In laboratory exercises adequate examples and tests from the theoretical lectures are done in order to exercise lectured theory where exercises contribute to understanding of the theory.

4. Teaching methods:

Lectures; Computing practice. Consultations. Lectures are dynamic and interactive. In lectures theoretical part of the course is presented accompanied by characteristic and representative examples in order to better understand the matter. In practice, which follows lectures, typical problems are solved and lectured theory is deepened. Besides lectures and practice, regular consultations and group consultations are also held. Part of the course, which is a logical unit, can be passed within the teaching process in the following 2 modules (the first module: relations, functions, Boolean algebra, groups, rings, fields, polynomials, complex numbers, finite fields, free vectors, analytical geometry in space (vector!); the second module: determinants, system of linear equations, vector space, matrices, characteristic roots and vectors. Theoretical part is passed through the test (elimination and basic), Practical part is passed through solving five serious problems.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Computer exercise attendance	Yes	5.00	Written part of the exam - tasks and theory	Yes	20.00
Lecture attendance	Yes	5.00	Theoretical part of the exam	Yes	40.00
Test	Yes	15.00			
Test	Yes	15.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Rade Doroslovački	Elementi opšte i linearne algebre	ALFA-GRAF NS	2006
2,	Rade Doroslovački i Nedović Ljubo	Zbirka ispitnih zadataka iz diskretne matematike 1985-2006	ALFA-GRAF, Novi Sad	2006
3,	Rade Doroslovački i Ljubo Nedović	Testovi iz diskretne matematike i linearne algebre	ALFA-GRAF NS	2005
4,	Rade Doroslovački	Principi algebre, opšte, diskretne i linearne	ALFA GRF NOVI SAD	2008

Table 5.2 Course specification

Course:		Software Tools in Power Engineering
Course id:	ESI001	
Number of ECTS:	9	
Teachers:		Bekut D. Duško, Gavrić M. Milan
Course status:		Mandatory

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
3	0	2	0	1

Precondition courses: None

1. Educational goal:

The goal of the course is to introduce software tools that are used in power engineering.

2. Educational outcomes (acquired knowledge):

Education outcomes are competence in use of software tools that are applied in power engineering.

3. Course content/structure:

Usage of computers and user interaction (desktop PC, tablet). Fundamentals of operating systems (Windows, Unix / Linux, etc.): user interface, applications: types, running, installation, data organization and working with files and folders, multiuser work, user groups and user roles and shared data. Remote access to data and applications: access to the Internet, privacy and data protection mechanisms, the use of web browsers and web applications (search engines). Communication via the Internet: messenger applications, social networking, work in groups, email, forums, video-audio conferencing. Using email: email client usage. Creation and processing of documents: work with business applications, text editing, formulas, tables, image editing basics, working with video and audio data, preparation of technical drawings and diagrams; work with presentations. Basic usage of programs for numerical calculations and data processing (MATLAB): using arrays and matrices, working with polynomials, programming basics, interactive work and writing scripts, program flow control, writing functions, basics of graphical data representation. Examples of the use of power systems data. Linking and embedding applications and data.

4. Teaching methods:

Teaching is conducted through lectures and computer exercises. During the exercises the student is required to apply their knowledge in practice.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Homework	Yes	5.00	Oral part of the exam	Yes	30.00
Homework	Yes	5.00			
Project	Yes	30.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Duane Hanselman, Bruce Littlefield	Mastering MATLAB 6 - A Comprehensive Tutorial and Reference	Prantice Hall	2001
2,	-	Štampani materijal koji pokriva predavanja i vežbe	FTN	-

Table 5.2 Course specification

Course:		Programming Languages and Data Structures
Course id:	E214	
Number of ECTS:	9	
Teachers:		Malbaški T. Dušan, Popov B. Srđan
Course status:		Mandatory

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
4	0	4	0	0

Precondition courses: None

1. Educational goal:

Introducing students to principles and techniques of creating programme procedures with a special emphasis on data structures.

2. Educational outcomes (acquired knowledge):

Students should be trained to design programmes in a specific programme language.

3. Course content/structure:

An overview of programme languages. Programming language syntax.: BNF, EBNF and sytax diagrams. Basic and derived data types. Operations. Sequences. Selections. Cycles. Jumps. Modules. Files. Algorithms and algorithm structures. Turing machine. Markov normal algorithms. Recursive functions. Algorithm analysis and structural programming. Data structures. Abstract data types. Program testing. User interface. Program documentation.

4. Teaching methods:

Lectures. Computer practice. Consultations. 70 out of 100 points are awarded during the lectures, and 30 points in theoretical part of the examination. Pre-exam assignment include two small projects (15 points each) and four tests (10 points each) which amounts to 70 points. In order to pass the examination, student must collect at least 55 points. Students who don't collect 25 points during the lectures (theoretical minimum) have to take written examination.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Computer excersise defence	Yes	70.00	Theoretical part of the exam	Yes	30.00

Literature

Ord.	Author	Title	Publisher	Year
1,	Kraus L.	Programski jezik C sa rešenim primerima	Mikro knjiga, Beograd (knjiga je više puta preštampavana)	1994
2,	Malbaški D., Obradović D.	Osnovne strukture podataka	Univerzitet u Novom Sadu	1995
3,	Malbaški D.	Odabrana poglavlja metoda programiranja	Univerzitet u Novom Sadu	2005
4,	Hotomski D., Malbaški D.	Matematička logika i principi programiranja	Univerzitet u Novom Sadu	2003

Table 5.2 Course specification

Course:		English Language - Elementary
Course id:	EJ1Z	
Number of ECTS:	3	
Teachers:		Bogdanović Ž. Vesna, Gak M. Dragana, Katić M. Marina, Ličen S. Branislava, Mirović Đ. Ivana, Šafranj F. Jelisaveta
Course status:		Elective

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
3	0	0	0	0

Precondition courses: None

1. Educational goal:

Mastering the basics of the English language: pronunciation of English sounds, acquisition of vocabulary related to everyday situations, mastering the basics of English morphology and syntax.

2. Educational outcomes (acquired knowledge):

Students are able to use spoken and written English in simple, everyday situations.

3. Course content/structure:

The use of articles, nouns (nouns in Plural), adjectives (types of adjectives, possessive adjectives, comparison of adjectives), pronouns (personal and possessive pronouns), auxiliary verbs (be, do, have), modal verbs. The use and construction of tenses (Present Simple, Present Continuous, Present Perfect, Past Simple, future forms). Question and negative form of the sentence. Vocabulary related to everyday topics: introduction, family, free time, work, food and beverages, naming and description of everyday objects, description of people and places etc.

4. Teaching methods:

Communicative method is used, since the objectives and contents of the course are aimed at communication which is very complex. The emphasis is placed on communication between students and teachers and students among themselves, as well as balanced development of all language skills.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Test	Yes	10.00	Written part of the exam - tasks and theory	Yes	70.00
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	John and Liz Soars	New Headway Elementary	Oxford University Press	2000
2,	N. Coe, M. Harrison, K. Peterson	Oxford Practice Grammar	OUP	2000
3,	grupa autora	Oxford Serbian-English Dictionary	OUP	2006

Table 5.2 Course specification

Course:		English Language – Intermediate
Course id:	EJ2Z	
Number of ECTS:	3	
Teachers:		Bogdanović Ž. Vesna, Gak M. Dragana, Katić M. Marina, Ličen S. Branislava, Mirović Đ. Ivana, Šafranj F. Jelisaveta
Course status:		Elective

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
3	0	0	0	0

Precondition courses: None

1. Educational goal:

Knowledge about the basics of English for Specific Purposes related to students' future profession. Students read a selection of engineering and scientific texts covering different areas of computing and control engineering in order to learn professional terms in accordance with definitions, classifications, terms and notions adopted by contemporary European and international standards. The knowledge of the English language is expanded by including new vocabulary, compounds, use of prefixes and suffixes, grammatical and syntax structures characteristic of English for specific purposes in this area.

2. Educational outcomes (acquired knowledge):

Students acquire enough knowledge and skills to use professional English in simple communication with clients, colleagues and employers.

3. Course content/structure:

A selection of texts from professional engineering areas. Systematization of verb tenses, conditional sentences, direct and indirect speech, passive.

4. Teaching methods:

Teaching is done using communicative method of language learning. After a short introduction about a topic, the students read the text and find new words in a dictionary. This is followed by a discussion about the topics mentioned in the text and the conclusions offered there. A part of the class is devoted to learning and practicing new vocabulary through oral and written exercises as well as to revision and expansion of knowledge related to certain grammar structures. Students are encouraged to communicate in English through group discussions and pair work.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Test	Yes	10.00	Written part of the exam - tasks and theory	Yes	40.00
Test	Yes	10.00	Oral part of the exam	Yes	30.00
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Eric H. Glendinning, John McEwan	Basic English for Computing	Oxford University Press, Oxford	2003
2,	Edita Čavić	English in Architecture	Naučna knjiga, Beograd	2001
3,	John and Liz Soars	New Headway Pre-Intermediate	Oxford University Press, Oxford	2003
4,	N. Coe, M. Harrison, K. Paterson	Oxford Practice Grammar - Basic	Oxford University Press, Oxford	2006

Table 5.2 Course specification

Course:		Mathematical Analysis 1
Course id:	E102	
Number of ECTS:	9	
Teachers:		Kovačević M. Ilija, Mihailović P. Biljana
Course status:		Mandatory

Number of active teaching classes (weekly)

Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
4	4	0	0	0

Precondition courses: None

1. Educational goal:

Enabling students to think abstract and gain basic knowledge in the field of Mathematical analysis (limiting processes, differential and integral calculus, ordinary differential equations).

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in further education and student designs and solves mathematical models in professional courses using the knowledge from Mathematical Analysis 1.

3. Course content/structure:

Theoretical lectures: Field of real and complex numbers. Metric space. Series (convergence of series, real and complex sequences, complete metric space). Limits, continuity and uniform continuity of functions. Real functions of a real variable (limit, continuity, uniform continuity, differential calculus and application, indefinite integral; definite integral and application; improper integral). Real functions of several real variables (limits, continuity, uniform continuity, differential calculus and application). Ordinary differential equations of first and higher order. Linear differential equations of n-th order. Practice (Exercises): Corresponding examples from theoretical lectures are done in exercises, thus practicing the taught lectures and understanding them better.

4. Teaching methods:

Lectures; Numeric computing practice. Consultations. Lectures are combined. Theoretical part of the lectures is accompanied by typical examples in order to better understand the matter taught in lectures. In practice, which accompanies lectures, typical problems are solved and the knowledge from the lectures is deepened. Besides lectures and practice, consultations are held on a regular basis. Part of the lectures, which presents one logical whole, can be passed during the teaching process in the form of the following 5 modules (the first module: limiting processes; the second module: differential calculus of real functions of a real variable, the third module: differential calculus of real functions of several variables; the fourth module: integral calculus: the fifth module: ordinary differential equations).

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance	Yes	3.00	Final exam - part one	No	50.00
Lecture attendance	Yes	2.00	Final exam - part two	No	50.00
Test	Yes	5.00	Written part of the exam - tasks and theory	Yes	70.00
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Ilija Kovačević, Nebojša Ralević,V.Marić,B.Carić, S.Medić, M.Novković	Matematička analiza 1 - uvodni pojmovi i granični procesi	FTN (Edicija tehničke nauke-udžbenici), Novi Sad	2012
2,	I. Kovačević,V.Marić, M. Novković,B.Carić,N.Ralević,S .Medić	Matemarička analiza 1 - integralni i diferncijalni račun, obične diferencijalne jednačine	FTN (Edicija tehničke nauke-udžbenici), Novi Sad	2012
3,	M. Novković, B. Carić,S.Medić,V.Ćurić, I.	Zbirka rešenih zadataka iz Matematičke analize 1	FTN (Edicija tehničke nauke-udžbenici), Novi Sad	2012
4,	I.Kovačević,B.Carić,S.Medić, V.Ćurić	Testovi ispita iz Matematičke analize 1	FTN (Edicija tehničke nauke-udžbenici), Novi Sad	2012

Table 5.2 Course specification

Course:		Fundamentals of Electrical Engineering
Course id:	E216	
Number of ECTS:	9	
Teachers:		Bajović M. Vera, Đurić M. Nikola, Pekarić-Nađ M. Neda
Course status:		Mandatory

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
4	4	0	0	0

Precondition courses: None

1. Educational goal:

Course objective is to teach students to solve simple electric circuits of direct current and time variable currents, as well as to calculate impedance and basic physical parameters of the loads in such networks, resistance of resistors, inductance of coils and capacitance of capacitors. Also, the objective is to teach the students how to solve single phase circuits as well as simple balanced three-phase circuits.

2. Educational outcomes (acquired knowledge):

Students who successfully complete the course are able to calculate capacitance of a simple homogeneous symmetric structures, to calculate resistance of homogeneous multilayer structures, to solve simple electric circuit of direct current, to calculate magnetic field of simple symmetrical current caring structures, to calculate inductance of simple structures with windings, to solve simple electric and magnetic circuits with alternating currents and to calculate instantaneous, active, reactive and apparent power in single phase and balanced three phase circuits.

3. Course content/structure:

Electrostatics (Electric field strength vector, Gauss's law, Electric potential and voltage, Conductors in electrostatic field, Capacitance and capacitors, Dielectrics in electrostatic field, Boundary conditions, Energy and forces in electrostatic field). Electric circuits of DC- direct current, (Current density vector and current intensity, Ohm's law and resistors, Joule's law, Kirchhoff's Laws, Generators, Maximum power transfer, Power conservation theorem, Methods for circuit analysis, Superposition Theorem, Thevenin's and Norton's theorem, Compensation theorem), DC magnetic field (Magnetic flux density vector, Biot-Savart Law, Magnetic flux, Ampere's Law, Ferromagnetic materials, Magnetic properties of materials, Boundary conditions, Magnetic circuits). Low frequency time harmonic electromagnetic field (Electromagnetic induction, Faraday's Law, Lentz's Law, Eddy currents, Skin effect and proximity effect, Self inductance and mutual inductance, Transformers, Energy and forces in magnetic field). Electric circuits of AC-alternating current (Simple sinusoidal current circuits, Impedance, Circuit analysis in complex domain, Complex power, Maximum average power transfer, Power factor correction, Simple resonant circuits, Magnetically coupled circuits, Balanced three-phase systems) .

4. Teaching methods:

The teaching process consists of lectures, problem solving and lab work, with occasional video presentations. The inductive method is applied. The students' knowledge grows gradually, trough many simple problems solving.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Test	Yes	10.00	Written part of the exam - tasks and theory	Yes	70.00
Test	Yes	10.00			
Test	Yes	10.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	Neda Pekarić – Nađ, Dejana Herceg	Osnovi elektrotehnike za računarstvo	FTN, Novi Sad	2000
2,	Neda Pekarić-Nađ, Vera Bajović	Zbirka rešenih ispitnih zadataka iz osnova elektrotehnike	Građevinska knjiga, Beograd	1987

Table 5.2 Course specification

Course:		Computer Architecture
Course id:	E217	
Number of ECTS:	9	
Teachers:		Hajduković P. Miroslav, Živanov S. Žarko
Course status:		Mandatory

Number of active teaching classes (weekly)

Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
4	0	4	0	0

Precondition courses

1. Educational goal:

Students learn about principles of computer operation, architecture of its commands, organization and implementation of computer. They acquire beginner's level knowledge of assembler programming.

2. Educational outcomes (acquired knowledge):

Beginner's level knowledge of computer architecture and of assembler programming.

3. Course content/structure:

Notion of computer architecture. Computer model. Machine data representation. Architecture of instructions, assembler languages and assembler programming (subrprogram, macro, stack). Principles of computer organization (memory, processor, coding and formats of machine instructions, processor organization, input-output devices, bus, interrupts). System programs (editor, assembler, macro pre-processor, linker, louder, debugger, operating system), Evolution of computer architecture (CISC, RISC, scalar and vector processors; memory hierarchy: main, peripheral, associative, cache and virtual memory, input-output devices, bus, multiprocessors and multicomputers, parallelism at the level of instruction at the level of instruction rows.

4. Teaching methods:

Lectures, computer practice. Consultations. Pre exam assignments include four tests and one course project. The final examination test the theoretical part of the course material. The number of points for obtaining a signature is 30.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	30.00	Theoretical part of the exam	Yes	30.00
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	M. Hajduković, Ž. Živanov	Arhitektura računara - pregled principa i evolucije	FTN Izdavaštvo, Novi Sad	2013

Table 5.2 Course specification

Course:		Sociological Aspects of Technical Development
Course id:	E251A	
Number of ECTS:	3	
Teacher:		Radivojević D. Radoš
Course status:		Mandatory

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
2	0	0	0	0

Precondition courses: None

1. Educational goal:

Enabling engineers to understand social importance and role of technical sciences in the society development, positive and negative implications of technical sciences to the development of society and men, as well as their own social importance and responsibility in the creation of humane society.

2. Educational outcomes (acquired knowledge):

Acquisition of social knowledge about features, sources, social functions of technology and creators of technical knowledge; knowledge about the impact of the nature of social systems on technical development and the impact of technology on the development of a society; knowledge about impact of technology on processes and changes in modern society: globalization, changes in the work content and forms of work organization, changes in communication, culture, education, democracy, way of life and thinking, knowledge about the negative aspects of technological development, nature destruction, work alienation, creation of risky society.

3. Course content/structure:

Technical knowledge: features and social functions of technology, sources of technical knowledge, creators of technical knowledge, dissemination of technical knowledge, scientific-technical potential, science and technology relationship. Relationship between technology and society: the impact of society on technical development and the impact of technical sciences on the development of society. Industrial and information society. The impact of technology on life, awareness and culture. Technology and globalization: causes and dimensions of globalization, technological gap, brain drain; Technology and work organization: flexible production, network organizations, knowledge economy, electronic economy. Technical sciences and work: reduction of working hours, change of work content, decline of the work importance. Technology and alienation at work: the impact of technology, forms of alienation, humanization of labour. Mass media and communications; global television, the impact of television on society, media theories, mobile telephony and the internet, the impact of internet on society, media imperialism, mass culture, cyber criminal. Technology and education: education and new communication technologies, education and technological gap, virtual universities, intelligence and educational success. Technology and democracy: global media and liberal democracy, media and virtual reality, resistance and alternatives to global media. Technology and ecological crisis: global warming, genetically modified food, technical risks, technical society as risky. Technical intelligence: social status and impact, engineering ethics.

4. Teaching methods:

The problem is presented in lectures, and then a discussion is opened in which students may ask questions, give objections and contribute to the presented matter.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Homework	Yes	5.00	Oral part of the exam	Yes	50.00
Lecture attendance	Yes	5.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Radoš Radivojević	Tehnika i društvo	Fakultet tehničkih nauka	2004
2,	Radoš Radivojević	Sociologija nauke	Stylos	1997
3,	Entoni Gidens	Sociologija	Ekonomski fakultet	2003
4,	Friedrics, G. Schaff. A,	Mikroelektronika i društvo	Globus	1987
5,	James Stevin	The Internet and Society	Camridge, Polity	2000
6,	Chris Barker	Television,Globaliization and Cultural Identities	Open University Press	1999
7,	Eugene Loos, Enid Mante-Meijer, Leslie Haddon	The Social Dynamics of Information and Communication Technology	Ashgate	2008
8,	Wenda K. Bauchspies, Jennifer Croissant, Sal Restivo	Science, Technology and Society: A Sociological Approach	John Wiley & Sons	2005

Literature

Ord.	Author	Title	Publisher	Year
9,	Jan L. Harrington	Technology and Society	Jones & Bartlett	2011
10,	Deborah G. Johnson, Jameson M. Wetmore	Technology and Society: Building our Sociotechnical Future	MIT Press	2009

Table 5.2 Course specification

Course:		Power Engineering Systems
Course id:	E129A	
Number of ECTS:	7	
Teacher:		Strezoski C. Vladimir
Course status:		Mandatory

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
3	2	0	0	1

Precondition courses: None

1. Educational goal:

Place of electricity in the power sector. The basic orientation in the power engineering (DC or AC, single phase or three-phase electrical energy, frequency and voltage). Structure and elements of power systems. The idea of reactive power and two-dimensional power balance.

2. Educational outcomes (acquired knowledge):

Basic knowledge about alternating three-phase electrical energy and power engineering systems (transmission, manufacturing and distributive networks).

3. Course content/structure:

Fundamentals of power. Fundamentals of power engineering: historical development, fundamentals of power engineering systems, three-phase power systems. Basic elements of power engineering systems: consumers, lines, transformers, alternating machines, dis tribution systems. Electric power balance: regulation of electric power systems, the setting and solution of power balance problems-problems of power flow.

4. Teaching methods:

Lectures; Auditory Practice; Consultations.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance	Yes	5.00	Written part of the exam - tasks and theory	Yes	70.00
Lecture attendance	Yes	5.00			
Term paper	Yes	20.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	V.C.Strezoski:	Osnovi elektroenergetike	FTN, Novi Sad	1996

Table 5.2 Course specification

Course:		Object Programming
Course id:	E223A	
Number of ECTS:	8	
Teachers:		Malbaški T. Dušan, Kupusinac D. Aleksandar
Course status:		Mandatory

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
4	0	3	0	1

Precondition courses: None

1. Educational goal:

Knowledge about the principles, techniques and ways of using object methodology and technologies for software development.

2. Educational outcomes (acquired knowledge):

Students should know how to use object approach for developing programs on a concrete object programming language.

3. Course content/structure:

Problem domain, model, implementation. Basic notions and terminology. Abstraction and information hiding. Class implementation. Operation classification. Constructors and destructors. Notion and types of polymorphisms. Operator overlaping. Association. Aggregation. Inheritance. Usage connections. Other dependancy connections. Generic classes.

4. Teaching methods:

Lectures, Computer practice. Consultations. Of the overall 100 points, 70 points are gained during the course and 30 at the theoretical examination. Pre examination assignments include: two small projects (15 points each) and four tests (10 points each) which makes a total of 70 points. In order to pass the examination a student must achieve min 55 points. Students who do not achieve 25 points during the course (which is a theoretical minimum) take the written examination.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Computer excersise defence	Yes	70.00	Theoretical part of the exam	Yes	30.00

Literature

Ord.	Author	Title	Publisher	Year
1,	Kraus L.	Programski jezik C++	Mikro knjiga, Beograd (knjiga je više puta preštampavana)	1994
2,	Malbaški D.	Objekti i objektno programiranje	Univerzitet u Novom Sadu (u štampi)	2007
3,	Malbaški D.	Internet programiranje, deo 1: Programski jezik java	Univerzitet u Novom Sadu, Tehnički fakultet "Mihajlo Pupin"	2007

Table 5.2 Course specification

Course:		Fundamentals of Computer Networks 1
Course id:	E23B	
Number of ECTS:	4	
Teachers:		Bašičević V. Ilija, Samardžija M. Dragan
Course status:		Mandatory

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
2	0	1	0	1

Precondition courses

1. Educational goal:

Students gain fundamental knowledge about computer networks and are able to design and realize simple communication programs.

2. Educational outcomes (acquired knowledge):

Knowledge about basic notions, standards and technologies in the field of computer networks, and the ability design and realize simple communication programs.

3. Course content/structure:

Basic notions and definitions (structure of computer network, types of networks, network typologies, the Internet). Communication controllers in a computer system. Network connectivity components. Software for managing network connectivity components. Physical architecture of network connectivity processors (access, passage and combined). Network connectivity processor software. Open system architecture (application layer, adjustment layer, communication layer, transport layer, network layer, channel layer, physical layer).

4. Teaching methods:

Lectures: Tutorials. Computer practice. Consultations.
Students work during the semester at computer practice classes on developing their examination paper.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Complex exercises	Yes	20.00	Coloquium exam	No	20.00
Computer exercise attendance	Yes	5.00	Theoretical part of the exam	Yes	40.00
Lecture attendance	Yes	5.00	Practical part of the exam - tasks	Yes	30.00

Literature

Ord.	Author	Title	Publisher	Year
1,	V. Kovačević, M. Popović i Ž. Jurca	Osnovi računarskih mreža, skripta.		2007

Table 5.2 Course specification

Course:		Logic Design of Computer Systems 1
Course id:	E227A	
Number of ECTS:	6	
Teachers:		Teslić Đ. Nikola, Pjevalica U. Nebojša
Course status:		Mandatory

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
3	0	2	0	1

Precondition courses: None

1. Educational goal:

Knowledge about the basics of digital system design.

2. Educational outcomes (acquired knowledge):

Knowledge about the basic techniques for designing and testing digital systems. The acquired knowledge provides the basis for understanding engineering courses which will follow.

3. Course content/structure:

Switching functions (analytical methods of representation, Functionally complete system and minimization). Finite automata (methods, time behaviour of synchronous sequential systems and minimum number of states). sequential system design. Combinational networks (standard modules and programmable combinational networks). Standard sequential networks (memory elements and registers). The notion of complex digital systems (AHPL, RTL and basic VHDL). Programmable combinational and sequent ional networks (PAL, PLD, CPLD, FPGA). Design of arithmetic logic unit. Logic design of processor control unit. Micro program control unit (description and realization with VHDL). Hypothetical processor (description and realization with VHDL).

4. Teaching methods:

Lectures, Tutorials. Computer practice. Consultations.
Students attend lectures, auditory practice and laboratory practice classes. Each laboratory practice is graded. There are three colloquia taken at laboratory practice classes. A colloquium consists of a test which checks students' theoretical knowledge and practical tasks at the computer.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Homework	Yes	5.00	Test	Yes	10.00
Homework	Yes	5.00	Coloquium exam	No	20.00
Homework	Yes	5.00	Coloquium exam	No	20.00
Homework	Yes	5.00	Theoretical part of the exam	Yes	30.00
			Practical part of the exam - tasks	Yes	40.00

Literature

Ord.	Author	Title	Publisher	Year
1,	V. Kovačević	Logičko projektovanje računarskih sistema, Projektovanje digitalnih sistema	Univerzitet Novi Sad	2009
2,	M. Katona, N. Teslić, V. Kovačević	Zbirka rešenih zadataka iz projektovanja digitalnih sistema	Univerzitet Novi Sad	2010

Table 5.2 Course specification

Course:		Optimization Methods in Power Engineering
Course id:	ESI043	
Number of ECTS:	5	
Teachers:		Pavlica N. Vladimir, Švenda S. Goran
Course status:		Mandatory

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
3	2	0	0	1

Precondition courses: None

1. Educational goal:

The main course objective is acquiring knowledge on classic optimization methods, algorithms for their solution and possibilities of their application in power systems.

2. Educational outcomes (acquired knowledge):

Knowledge on classic optimization methods in modelling and solving classic problems of transmission and distribution network.

3. Course content/structure:

Fundamentals in numeric analysis: functions, matrix algebraic, finding eigenvalues and eigenvectors. Solving systems of linear algebraic equations. Solving nonlinear algebraic equation: methods of correction of current solution, methods of bracketing and combined methods. Solving systems of nonlinear algebraic equations: Newton-Rapson and Gauss-Saidel methods. Optimization fundamentals: stating and classification of optimization problems. Graphic optimization methods. Linear and network programming: linear programming, primary and dual Simplex method, transport problem, assignation method, etc. Nonlinear programming: gradient and conjugate gradient methods, Lagrange method, Hook-Jeeves method, etc.
Application of optimization methods in power systems.

4. Teaching methods:

Lectures - auditory

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Term paper	Yes	20.00	Written part of the exam - tasks and theory	Yes	35.00
Test	Yes	10.00	Oral part of the exam	Yes	35.00

Literature

Ord.	Author	Title	Publisher	Year
1,	B.P.Demidovich, I.A.Maron	Computation Mathematics	Mir Publishers, Moscow	1973
2,	V.Levi, D.Bekut	Primena računarskih metoda u elektroenergetici	Stylos, Novi Sad	1997
3,	S.S.Rao	Engineering Optimization – Theory and Practice	John Wiley & Sons, New York, USA	2009
4,	A.D.Belegundu, T.R.Chandrupatla	Optimization Concepts and Applilcations in Engineering	Cambridge, University Press	2011

Table 5.2 Course specification

Course:	Operating Systems
Course id: E225	
Number of ECTS: 8	
Teachers:	Hajduković P. Miroslav, Suvajdžin Rakić B. Zorica
Course status:	Mandatory

Number of active teaching classes (weekly)

Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
4	0	3	0	1

Precondition courses

1. Educational goal:

Students learn about principles of operating systems, their organization, structure and implementation. They acquire beginner's level knowledge of concurrent programming.

2. Educational outcomes (acquired knowledge):

Knowledge of operating systems principles, their organization, structure and implementation. Beginner's level knowledge of concurrent programming.

3. Course content/structure:

Notion of operating system. Concurrency and synchronization (concurrent processes, cooperation and synchronization of processes, shared variables, message passing, mutual exclusion, synchronization, means of process cooperation and synchronization, deadlock, concurrent programming languages and their implementation, typical problems of concurrent programming, producers and consumers, philosophers, readers and writers, disk management, …) Operating system tasks (command interpretation, process management, data management, main memory management, management of devices, process scheduling). Operating system interface (scripts and system calls), Security and protection, Types of operating systems (operating systems of shared and real time, distributed operating systems), Parallel programming.

4. Teaching methods:

Lectures, Computer practice. Consultations. Pre exam assignments include four tests and one course project. The final examination test the theoretical part of the course material. The number of points for obtaining a signature is 30.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	30.00	Theoretical part of the exam	Yes	30.00
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	M. Hajduković	Operativni sistemi - problemi i struktura	FTN Izdavaštvo, Novi Sad	2013

Table 5.2 Course specification

Course:		Logic Design of Computer Systems 2			
Course id:	E230				
Number of ECTS:	8				
Teacher:		Atlagić S. Branislav			
Course status:		Mandatory			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
4	0	3	0	1	
Precondition courses					

1. Educational goal:

Students learn about the basics of computer systems and are trained to design a central processor and realize simple assembler programs.

2. Educational outcomes (acquired knowledge):

Knowledge about basic notions, standards and technologies in the field of computer systems as well as ability to design and realize simple computer structures.

3. Course content/structure:

Introduction (definition of structure, single processor and multiprocessor structures, functional units, methods of connecting functional units). Central processor design (signal timing, address regimes, machine language, description of processor in VHDL, processor management). Memory design (RAM, DRAM, FLASH memory, methods for increasing memory reliability, associative memory, fast memory, hidden memory, memory management) Input- Output subsystem (methods and techniques of U/I subsystem communication with CPU, peripheral units, input output management). Transmission lines between functional units (standards, ISA, PCI, etc). Computer systems with multiple functional units. Local area networks as multiprocessor structures. Examples of computer structure design with VHDL (microcontroller, ALU) Assembler language, Macroassembler language, Machine –program connection. Examples of practical programming of devices.

4. Teaching methods:

Lectures. Tutorials. Computer practice. Consultations.
Students attend lectures and computer practice classes. At the end of the semester the acquired practical knowledge is assessed at the regular examination. The examination is taken using computer and suitable literature.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Laboratory exercise defence	Yes	30.00	Coloquium exam	No	40.00
			Theoretical part of the exam	Yes	40.00
			Practical part of the exam - tasks	Yes	30.00

Literature

Ord.	Author	Title	Publisher	Year
1,	V.Kovačević	LOGIČKO PROJEKTOVANjE RAČUNARSKIH SISTEMA	Univerzitet u Novom Sadu	1996
2,	Branislav Atlagić	PROJEKTOVANjE RAČUNARSKIH SISTEMA, skripta		1996
3,	Zoran Krajačević	PRAKTIKUM LABORATORIJSKIH VEŽBI		1996

Table 5.2 Course specification

Course:		Architecture of Distributed Systems in Power Systems
Course id:	SEI002	
Number of ECTS:	5	
Teachers:		Erdeljan M. Aleksandar, Švenda S. Goran
Course status:		Mandatory

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
3	0	2	0	1

Precondition courses: None

1. Educational goal:

The goal of the course is to introduce software architecures of distributed systrems in power systems.

2. Educational outcomes (acquired knowledge):

Educational outcome is competences in using software tools used in power engineering.
Outcomes are the knowledge, skills and abilities required for the design and organization of distributed systems in power systems.

3. Course content/structure:

Software architecture overview. Architectural styles: layered architectures, object-oriented architectures, data-centered architectures, event-based architectures. Service-oriented architecture (SOA) fundamentals: definition, requirements, design principles, interfaces, protocols, functionalities, elements of SOA; service types and layers. Services and description of services. SOA types in power systems: fundamental, service composition architecture, service inventory architecture, service-oriented enterprise architecture; Technologies for SOA implementation; Web services and protocols. Enterprise service-bus (ESB); ESB infrastructure, enterprise application integration via services; examples of ESB based application integrations in power systems. XML based technologies used for interfacing with SOA services. .

4. Teaching methods:

Teaching is conducted through lectures and computer exercises. During the exercises the student is required to apply their knowledge in practice.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	30.00	Theoretical part of the exam	Yes	30.00
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	***	Service-Oriented Architecture: Concepts, Technology, and Design	www.soaprinciples.com	2005
2,	Dirk Krafzig, Karl Banke, Dirk Slama	Enterprise SOA: Service-Oriented Architecture Best Practices	Pearson Education	2005

Table 5.2 Course specification

Course:		Computer Network Fundamentals 2
Course id:	E23B1	
Number of ECTS:	4	
Teachers:		Samardžija M. Dragan, Bašičević V. Ilija
Course status:		Mandatory

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
2	0	2	0	0

Precondition courses: None

1. Educational goal:

Students gain fundamental knowledge about computer networks and are able to design and realize simple communication programs.

2. Educational outcomes (acquired knowledge):

Knowledge about basic notions, standards and technologies in the field of computer networks, and the ability design and realize simple communication programs.

3. Course content/structure:

Standards in intercomputer communications. Designing a topology of computer networks. Flow control in computer networks. Network direction and identification. Intercomputer communication devices. Network operating systems (administration, supervision and operational management) Internet (architecture and services).

4. Teaching methods:

Lectures: Tutorials. Computer practice. Consultations.
Students work during the semester at computer practice classes on developing their examination paper.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project task	Yes	30.00	Coloquium exam	No	40.00
			Theoretical part of the exam	Yes	30.00
			Practical part of the exam - tasks	Yes	40.00

Literature

Ord.	Author	Title	Publisher	Year
1,	V. Kovačević, M. Popović i Ž. Jurca	Osnovi računarskih mreža, skripta	FTN	2007

Table 5.2 Course specification

Course:		Probability and Stochastic Processes
Course id:	E224A	
Number of ECTS:	5	
Teachers:		Stojaković M. Mila, Mihailović P. Biljana
Course status:		Mandatory

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
2	1	0	0	1

Precondition courses: None

1. Educational goal:

Enabling students to develop abstract thinking and acquire basic knowledge in the field of probability and random processes.

2. Educational outcomes (acquired knowledge):

Ability to use the acquired knowledge in further education in engineering subjects so as to postulate and solve mathematical models in the field of probability and random processes.
.

3. Course content/structure:

Basic definitions in probability, conditional probability and Bayes' formula. Random variable of continuous and discrete type, distribution function. Two-dimensional random variable. Conditional distribution. Numerical properties – expectation, dispersion, covariance, correlation. Random processes – general terms. Markov chains and processes, the processes of birth and death, mass servicing systems.

4. Teaching methods:

Lectures; Numerical calculation practice. Consultations. Lectures are combined. In lectures, theoretical part of the course is taught followed by typical examples for better understanding. In practice, which accompanies lectures, typical problems are solved and knowledge from the lectures is deepened. Besides lectures and practice, consultations are held on a regular basis. Part of the course, presenting a logical whole, can be passed during the teaching process in the form of the following 3 modules (the first module: theory of probability, the second module: random variable, the third module: random processes). Oral part of the examination is optional.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance	Yes	5.00	Coloquium exam	No	20.00
Homework	Yes	5.00	Coloquium exam	No	20.00
Test	Yes	10.00	Oral part of the exam	Yes	30.00
Test	Yes	10.00	Practical part of the exam - tasks	Yes	40.00

Literature

Ord.	Author	Title	Publisher	Year
1,	Mila Stojaković	Slučajni procesi	Symbol, Novi Sad	2004
2,	Tatjana Grbić, Ljubo Nedović	Zbirka rešenih zadataka sa pismenih ispita iz verovatnoće	FTN	2002

Table 5.2 Course specification

Course:		Compilers
Course id:	E234	
Number of ECTS:	4	
Teacher:		Suvajdžin Rakić B. Zorica
Course status:		Mandatory

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
2	0	2	0	0

Precondition courses

1. Educational goal:

Students gain knowledge about translating one programming language into another, principles of compiler operation, tools for their development and their implementation. Beginner level knowledge of constructing compilers.

2. Educational outcomes (acquired knowledge):

The acquired knowledge forms a basis for the future engineering courses.

3. Course content/structure:

Compiler task. Types of computer programs and compilers. Formal languages. Grammars and automata. Lexical, syntax and semantic analysis, (Intermediate) code generation, Memory control and table of symbols, (Intermediate) code optimization, Types, Intermediate code interpretation, Compiler structure, Compiler generators.

4. Teaching methods:

Lectures, computer practice, consultations. Pre examination assignments include four tests and one course project. Final examination checks the theoretical knowledge of the subject. The number of points necessary for obtaining a signature is 30.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	30.00	Theoretical part of the exam	Yes	30.00
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	M. Hajduković, Z. Suvajdžin	Praktični uvod u programske prevodioce	u pripremi	2008

Table 5.2 Course specification

Course:		Databases 1
Course id:	RI43A	
Number of ECTS:	8	
Teachers:		Luković S. Ivan, Mihajlović R. Dragan
Course status:		Mandatory

Number of active teaching classes (weekly)

Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
4	1	2	0	1

Precondition courses

1. Educational goal:

Basic students' education in databases. Students gain fundamental knowledge in databases and learn basic techniques of implementation, use and maintenance of databases.

2. Educational outcomes (acquired knowledge):

The acquired knowledge is used in practice and in future engineering courses: Databases 2, Software Specification and Modeling, Information System Engineering, Business Informatics, Database Systems.

3. Course content/structure:

Databases and their role in the development and exploitation of information systems. Basic notions and concepts in databases, Database management system. Data models. ER data model; Relational data model. Relational algebra. Types of database constraints in relational data model. Functional dependency and the relation scheme key. Fundamentals of database design. The database management system language SQL. Physical data structures and file systems. Methods and process of file organization. Pile, Sequential, Hash, Index-Sequential and Index B-tree file organization. Transaction data processing.

4. Teaching methods:

Teaching is performed through lessons, oral and computer exercises (in the computer classroom), as well as consultations. Through the teaching process, students are constantly motivated to an intensive discussion, problem oriented reasoning, independent study work and active participation in the whole lecturing process. The prerequisite to enter final exam is to complete all the pre-exam assignments by earning at least 30 points.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Complex exercises	Yes	10.00	Oral part of the exam	Yes	30.00
Complex exercises	Yes	10.00			
Complex exercises	Yes	10.00			
Complex exercises	Yes	10.00			
Complex exercises	No	10.00			
Project task	Yes	15.00			
Project task	Yes	15.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Mihajlović Dragan	Informacioni sistemi i projektovanje baza podataka	FTN, Novi Sad	1998
2,	Mogin Pavle	Strukture podataka i organizacija datoteka, III izdanje	CET Beograd	2008
3,	Mogin Pavle, Luković Ivan	Principi baza podataka	Fakultet tehničkih nauka i MP Stylos, Novi Sad	1996
4,	Groff, James R., Weinberg, Paul N., Oppel, Andrew J.	SQL: The Complete Reference, 3rd Edition	McGraw Hill, Inc.	2009
5,	Date C. J.	An Introduction to Database Systems (8th Edition)	Addison Wesley	2004

Table 5.2 Course specification

Course:		System Modeling and Simulation
Course id:	E232	
Number of ECTS:	8	
Teachers:		Erdeljan M. Aleksandar, Čapko Lj. Darko, Vukmirović M. Srđan
Course status:		Mandatory

Number of active teaching classes (weekly)

Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
4	0	3	0	1

Precondition courses

1. Educational goal:

Mastering theoretical and practical basics of system modeling and simulation.

2. Educational outcomes (acquired knowledge):

Acquired knowledge can be used in solving specific engineering problems, and also present a basis for further understanding of professional courses

3. Course content/structure:

Place and role of modelling and simulation, practical applications. Theory of modelling and simulation. Mathematical models of time continuous systems. Examples of model forming: mechanical, thermal, hydrodynamic, electrical and electro-mechanical systems. Analogies between size and parameters. Electromechanical analogies. Model linearization. Simulation on analogue / hybrid computer. Simulation languages. Simulation on digital computer (Matlab/Simulink); Mathematical and simulation models of time discrete systems. System identification. Parameter identification. Example artificial neural networks.

4. Teaching methods:

Lectures; Numerical – calculation practice. Computer practice. Laboratory practice. consultations.
The examination is written and oral. The written part consists of at least four tasks, in order to pass the examination a students must successfully complete at least 50% of each task. The course material can be divided into two colloquia. The oral part of the examination is based on a list of examination questions. The colloquia, tests and examination are written. The written part is eliminating. The final grade is formed on the basis of colloquia, homework assignments, 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	Coloquium exam	No	20.00
Complex exercises	Yes	5.00	Coloquium exam	No	20.00
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
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	A. Erdeljan, D. Čapko	Štampani materijal koji pokriva predavanja i vežbe		2005
2,	Latinka Ćalasan, Menka Petkovska	MATLAB i dodatni moduliControl System Toolbox i SIMULINK	Mikro knjiga, Beograd	1995
3,	Duane Hanselman, Bruce Littlefield	Mastering MATLAB 6 - A Comprehensive Tutorial and Reference	Prantice Hall, ISBN: 0-13-019468-9	2001
4,	C.M.Close, D.K.Frederick, J.C.Newell	Modeling and Analysis of Dynamic Systems	John Wiley & Sons, Inc.	2002

Table 5.2 Course specification

Course:		Analysis of PES 1
Course id:	EE303	
Number of ECTS:	6	
Teacher:		Strezoski C. Vladimir
Course status:		Mandatory

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
3	1	0	0	0

Precondition courses: None

1. Educational goal:

The nature of the three-phase power electrical systems. Mathematical modeling of balanced elements of power electrical systems.

2. Educational outcomes (acquired knowledge):

Modeling and calculation of the power electrical system elements.

3. Course content/structure:

Mathematical Basis. Fundamentals of power electrical systems: basic laws and theorems, symmetrical components and the system of relative values. Element models of power electrical systems: consumers, alternating machines, transformers, cables, capacitors, conductors.

4. Teaching methods:

Lectures; Auditory Practice; Consultations.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance	Yes	5.00	Written part of the exam - tasks and theory	Yes	30.00
Lecture attendance	Yes	5.00	Oral part of the exam	Yes	30.00
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	V.C.Strezoski	Analiza elektroenergetskih sistema	FTN	2007

Table 5.2 Course specification

Course:		Human-Computer Interaction
Course id:	E0243	
Number of ECTS:	4	
Teachers:		Ivetić V. Dragan, Mihajlović R. Dragan
Course status:		Mandatory

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
3	0	2	0	1

Precondition courses

1. Educational goal:

Students learn to design and implement basic forms of human computer interaction.

2. Educational outcomes (acquired knowledge):

The acquired knowledge and skills are the basis for developing software of high utility capacity in the future courses and professional life.

3. Course content/structure:

HCI development and problems. User-centered and participated design. Essential knowledge in cognitive psychology, heuristics and MVC/MVP/MVVM architectures. Human channels, memory, attention, knowledge and skills acquiring. Requirements gathering, interpretation and analysis. Understanding users, tasks and context of use. HCI notations. HCI prototypes and their evolution. UI Development Tools. HCI design spaces: GUI, web, mobile, embedded, ubiquitous. Representation and visualization. Interaction devices. Usability and evaluation.

4. Teaching methods:

Lectures, computer practice, consultations. The course material is divided into two parts and is tested in two tests during the duration of the course. During the practice classes interfaces of different complexity and minimal functionality are implemented. The quality of the Practice work is evaluated. Successfully completed practice tasks are a prerequisite for taking final examination. The final examination is written. The final grade is based on the number of points on the examination, tests and practice tasks.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Complex exercises	Yes	50.00	Theoretical part of the exam	Yes	30.00
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	D. Ivetić	Interakcija čovek računar		2012
2,	Ben Shneiderman	Designing the User Interface - Strategies for Effective Human - Computer Interaction, 2nd Ed		1998
3,	Alan Dix, Janet Finlay, Gregory Abowd	Human-Computer Interaction, 2nd Ed		1998
4,	Jenny Preece, Yvone Rogers, Helen Sharp, Benyon	Human Computer Interaction		1995
5,	M. van Harmelen (Ed.)	Object Modeling and User Interface Design	Addison-Wesley	1997
6,	Marry B. Rosson, John M. Carroll	Usability Engineering - Scenario-Based Development of HCI		2002

Table 5.2 Course specification

Course:		Electric power software development
Course id:	ESI003	
Number of ECTS:	6	
Teachers:		Varga D. Ervin, Gavrić M. Milan, Lendak I. Imre, Malbaša V. Vuk, Pavlica N. Vladimir, Švenda S. Goran
Course status:		Mandatory

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
3	0	1	0	2

Precondition courses: None

1. Educational goal:

The aim of the subject is prepartion to electric power software development.

2. Educational outcomes (acquired knowledge):

The result of education is ability to take part in electric power software development team.

3. Course content/structure:

Electric power software requirements engineering (classification of requirements; elicitation, analysis, specification and validation of requirements; use cases). Introduction to UML. Electric power software design strategies, methods and techniques. Electric power software construction, documentation and testing. Electric power software configurations, release management, delivery and version control. Electric power software development process. Software product line (SPL) centered component-based electric software development process. Electric power software development tools.

4. Teaching methods:

The teaching is conducted through lectures and computer practice. During the exercises the student is required to complete practice –oriented tasks.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	30.00	Theoretical part of the exam	Yes	30.00
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	I. Sommerville	Software Engineering, 9th Edition	Addison-Wesley	2007
2,	Steve McConnell	Code Complete, 2nd Edition	Microsoft Press	2004
3,	Paul Clements, Linda Northrop	Software Product Lines: Practices and Patterns	Addison-Wesley	2002

Table 5.2 Course specification

Course:		Cloud Computing in power systems
Course id:	ESI004	
Number of ECTS:	6	
Teachers:		Vukmirović M. Srđan, Gavrić M. Milan, Varga D. Ervin
Course status:		Mandatory

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
3	0	1	0	2

Precondition courses: None

1. Educational goal:

The aim of this course is to acquiring fundamental knowledge in the field of Cloud Computing in power systems.

2. Educational outcomes (acquired knowledge):

The educational outcome is introducing students to the fundamental concepts of Clout Computing in power systems, with a special emphasis on the Smart Grid Systems.

3. Course content/structure:

Introduction to basic consepts of Cloud Computing, advantages and disadvantages in relation to other types of distributed systems; types of Cloud systems (public, community, hybrid, private), logical levels of Cloud services PaaS, IaaS, SaaS; key advantages of Cloud systems (unlimited resources, pay as you go) and key challenges ahead of this type of systems (privacy, security, availability, performance). Applications of Cloud Computing in power grid.

4. Teaching methods:

Teaching is conducted through lectures and laboratory excercises. The lectures have a theoretical focus with a number of characteristic examples enforcing easier understanding. The laboratory excercises are linked to the lectures with more practical exmaples, and the topics covered in lectures are further expanded. Students is required to complete practical tasks during laboratory excercises. Apart from lectures and laboratory excercises, consultations are held regularly.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	30.00	Theoretical part of the exam	Yes	30.00
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Sriran Krishnan	Programming Windows Azure	O Reilly Media	2010
2,	Srđan Vukmirovć	Cloud Computing u elektroenergetskim sistemima - skript u pripremi	O Reilly Media	2010

Table 5.2 Course specification

Course:		Introduction to critical mission software for power grids
Course id:	ESI006	
Number of ECTS:	6	
Teachers:		Atlagić S. Branislav, Katić A. Nenad, Pavlica N. Vladimir
Course status:		Mandatory

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
3	0	2	0	1

Precondition courses: None

1. Educational goal:

The aim of the subject is to to develop knowledge of basic concepts of critical mission software systems applied in power grids.

2. Educational outcomes (acquired knowledge):

The outcome of the subject is acquiring necessary knowledge, skills and abilities required for understanding structures and tasks of critical mission software systems.

3. Course content/structure:

Introduction to the real time systems and their classification. Real time operating systems. Real time communication infrastructure. Real time clock handling. Protocols for time synchronization between distribution working stations. Software techniques for synchronization and cooperation of distributed program components. Architecture and functionality of SCADA systems. Process IO and measurement data processing. SCADA program model of controlled system and implementation of control procedure. Development of components and applications of so-called "Scholar SCADA", simplified but functional SCADA system designed for educational purposes. Examples of power grid applications.

4. Teaching methods:

Teaching is conducted through the lectures and computer practice. Throughout the computer practice student is obliged to complete practically oriented tasks.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	30.00	Theoretical part of the exam	Yes	30.00
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	L.Wang, K.C. Tan	Modern Industrial Automation Software Design	John Wiley & Sons	2006
2,	B.Atlagić	Uvod u akviziciono upravljačke sisteme - skripta	FTN	2004

Table 5.2 Course specification

Course:		Web Programming
Course id:	E239A	
Number of ECTS:	6	
Teachers:		Sladić S. Goran, Vidaković P. Milan
Course status:		Mandatory

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
3	0	2	0	1

Precondition courses: None

1. Educational goal:

Students learn to solve problems in the field of Web programming, which covers knowledge of HTTP protocols, Server and JSP technology as well As organization and architecture of web applications.

2. Educational outcomes (acquired knowledge):

The acquired knowledge forms the basis for the future engineering courses.

3. Course content/structure:

Fundamentals of HTML. Fundamentals of JAVA programming language. Input/output subsystem. Concurrent programming. Network programming. Client – server architecture. HTTP protocol fundamentals. Fundamentals of servlet technology. Session management. POST method and file upload. JSP basics. JSP expressions. JSP scriptlets. JSP declarations. JSP directives. JavaBeans. Component visibility.

4. Teaching methods:

Lectures. Computer practice. Consultations. Theoretical part of the course if examined orally. Practical part of the examination is taken in the computer laboratory.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	50.00	Oral part of the exam	Yes	50.00

Literature

Ord.	Author	Title	Publisher	Year
1,	B. Milosavljević, M. Vidaković	Java i Internet programiranje	Grupa za informacione tehnologije, Novi Sad	2002
2,	B. Eckel	Misliti na Javi	Mikro knjiga, Beograd	2002
3,	C. Horstmann, G. Cornell	Core Java 2V	Sun Microsystems Press, Santa Clara	2005
4,	Danilo Obradović	Osnovi računarstva	Stylos	2003

Table 5.2 Course specification

Course:		Multi-tier applications development in power systems
Course id:	ESI013	
Number of ECTS:	6	
Teachers:		Malbaša V. Vuk, Strezoski C. Vladimir, Čapko Lj. Darko
Course status:		Mandatory

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
3	0	2	0	1

Precondition courses: None

1. Educational goal:

The aim of the subject is detail study of multi-tier application development applied in power systems.

2. Educational outcomes (acquired knowledge):

The outcome of the subject is capacity to develop multi-tier applications in power systems.

3. Course content/structure:

Multi-tier architecture in power systems: two-tier, three-tier and N-tier software architecture. (Physically) two-tier client-server applications. Three-tier architecture: the patterns of components division in layers - logical organization of applications. Communication between the components of the multi-tier applications. Middleware (WCF, Corba, DCOM, MPI), standardization. Examples of multi-tier applications. Project: Development of multi-tier applications in power systems.

4. Teaching methods:

Teaching is conducted through the lectures and computer practice. Throughout the computer practice student is obliged to complete practically oriented tasks.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	30.00	Theoretical part of the exam	Yes	30.00
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Fowler, Martin	Patterns of Enterprise Application Architecture	Addison Wesley	2002
2,	Andrew S.Tanenbaum, Maarten Van Steen	Distributed systems: principles and paradigms I	Pearson Prentice Hall	2007
3,	Vukmirović, S., Čapko, D., Lendak, I.	Distribuirani upravljački sistemi – skripta za računarske vežbe	-	2010

Table 5.2 Course specification

Course:		Electrical Installations and Industrial Power Engineering
Course id:	EE407	
Number of ECTS:	6	
Teacher:		Gušavac J. Strahil
Course status:		Elective

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
3	3	0	0	0

Precondition courses: None

1. Educational goal:

The main course objective is to train students for electrical installation design based on the knowledge of electrical properties of devices and mastering the systems of protection from the excessive voltage. Students are also trained about power supply principles of different categories of structures and consumers, about compensation of reactive energy and load management and protection of structures against lightning.

2. Educational outcomes (acquired knowledge):

Knowledge of the design methods of residential installations. Knowledge of the design methods on installations in industry. Forming technical parts of the conceptual design.

3. Course content/structure:

Types of electrical installations, their design and coordination. Electrical device properties. Dimensioning and protection from circuits in electrical installations. Protection from over-voltage contact. Protection from the weather discharge. High and low voltage power network in industry and large buildings. Reactive compensation of energy and power. Load management.

4. Teaching methods:

Lectures; Auditory Practice; Computer Practice; Laboratory Practice.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance	Yes	5.00	Written part of the exam - tasks and theory	Yes	35.00
Lecture attendance	Yes	5.00	Oral part of the exam	Yes	35.00
Term paper	Yes	20.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	M. Jovanović	Električne instalacije I, II i III	Beograd	1996
2,	G. G. Seip	Electrical Installations Handbook	Siemens, Berlin	1987
3,	M. Kostić	Teorija i praksa projektovanja električnih instalacija	Akademska misao, Beograd	2002
4,	Lj. Gerić, M. Savić, Č. Vujović	Zaštita objekata od atmosferskih pražnjenja	FTN, Novi Sad	2001

Table 5.2 Course specification

Course:		Exploitation of PES
Course id:	EE411B	
Number of ECTS:	6	
Teacher:		Sarić T. Andrija
Course status:		Elective

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
3	0	2	0	1

Precondition courses: None

1. Educational goal:

The course objective is to give students insight into the fundamental aspects of power energy systems (PES), methods and algorithms for optimizing exploitation problems of production and transmission capacities in PES. Apart from that, the objective is to enable students to solve practical problems of managing PES through dispatching management and make decisions on plant optimization. Since most of the PES exploitation problems are mathematically very complex, one of the objectives is also to teach students how to use available ready-made programme packages for plant optimization through PES management (EMS – Energy Management System). Also one of the objectives is examination of the influence of power energy market deregulation on the process of optimal PES exploitation.

2. Educational outcomes (acquired knowledge):

In the end of the course, students will be able to: Consider the fundamental technical and economical characteristics of the most important elements of PES: production units (hydro and thermal power plants), transmission and distribution network (lines and transformers), consumption areas and new and renewable sources of energy; Model certain physical effects which happen under some exploitation conditions; Formulate and solve basic analytical functions of PES exploitation; Use programme packages for optimization and simulation of dispatching management in real production and transmission networks; Reach necessary conclusions on the basis of the obtained results for the purpose of PES exploitation optimization.

3. Course content/structure:

- Energy and exploitation features of consumers:
Diagrams and curves of load duration. Diagram division. Characteristic indicators. Approximation of duration curve. Weekly, monthly and annual diagrams and curves of load duration.
-Energy and exploitation features of hydro power plants.
Hydrograph and curve of discharge duration. Modelling of hydro turbines and hydro power units. Plant limitations. Energy features of hydro power units. Calculations of power and hydro power plants energy. Possible production. Costs of production in hydro power plants (investments and exploitation, costs of the plant, maintenance and fuel).
- Energy and exploitation features of thermal power plants.
Fundamental energy features of thermal power plants, gas-turbine power plants, combined cycle plants. Production costs in thermal power plants (investment, exploitation, costs of plant, maintenance and fuel).
-New renewable power sources.
Wind power plants. Photo voltage power plants. Biomass power plants. Other new and renewable power sources.
-PES safety.
Failure classification. Models for approximate evaluation of failure effects. Sensitivity method in failure analysis. Calculation of sensitivity coefficient by DC model.
-Economic aspects of PES exploitation.
Specification of problems related to operation of power units. Function of plant costs. Limitations. Optimal load distribution in thermal and hydro-thermal systems (economic dispatching). Loss coefficients and loss formula. Hydro-thermal coordination.
-Optimal power flow.
Specification of goal and limitation function. Solution method: 1) Researching method, 2) Gradient method, 3) Newton method and 4) Method of separable linear programming
-Basic definitions on regulation of frequency and active powers.
Types of regulation. Requirements for keeping frequency. Time decomposition of functions. Primary regulation of frequency and active powers. Stationary error of frequency divergence in primary regulation. Notion of automatic second

4. Teaching methods:

Teaching: classic lectures and board exercises. Knowledge testing: Partial examinations and the final examination. Final examination: written part (students who successfully pass two partial examinations are exempt from the written part of the final examination) and oral part of examination.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Lecture attendance	Yes	5.00	Written part of the exam - tasks and theory	Yes	65.00
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	M. S. Ćalović, A. T. Sarić i P. Č. Stefanov	Eksploatacija elektroenergetskih sistema u uslovima slobodnog tržišta	Tehnički fakultet, Čačak	2005
2,	M. S. Ćalović i A. T. Sarić	Zbirka rešenih zadataka iz eksploatacija elektroenergetskih sistema, Drugo dopunjeno i prošireno izdanje	Tehnički fakultet, Čačak	2006
3,	D. Popović, D. Bekut i V. Treskanica	Specijalizovani DMS algoritmi	DMS grupa, Novi Sad	2004
4,	G. Švenda	Osnovi elektroenergetike – matematički modeli i proračuni	Fakultet tehničkih nauka i Stylos, Novi Sad	2008

Table 5.2 Course specification

Course:		Development of Cloud application in power systems
Course id:	ESI008	
Number of ECTS:	6	
Teacher:		Vukmirović M. Srđan
Course status:		Elective

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
3	0	3	0	0

Precondition courses: None

1. Educational goal:

The aim of this course is tacquiring knowledge and skills in the field of Cloud Computing and development of application in such environment.

2. Educational outcomes (acquired knowledge):

The educational outcome is the ability of students to realize application in Cloud environment with a special emphasis on Smart Grid systems.

3. Course content/structure:

In this exam students will learn how to create software projects that will run in Cloud environment. Based on the basic knowledge of components of Cloud environment students acquired in the exam „Cloud computing in power systems“ they will develop applications for Smart Grid that useall components of Cloud environment.
In practical part of lectures students will acquire practical knowledge for developing applications which include: compute, storage components (blob, table, queue) and Cloud based service bus.

4. Teaching methods:

Teaching is conducted through lectures and laboratory excercises. The lectures have a theoretical focus with a number of characteristic examples enforcing easier understanding. The laboratory excercises are linked to the lectures with more practical exmaples, and the topics covered in lectures are further expanded. Student s required to complete practical tasks during laboratory excercises. Apart from lectures and laboratory excercises, consultations are held regularly

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	30.00	Theoretical part of the exam	Yes	30.00
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Srđan Vukmirović	Razvoj Cloud aplikacija u elektroenergetskim sistemima – skripta u pripremi		-
2,	Microsoft Power and Utilities Group	Smart Energy Reference Architecture	Microsoft Press	2009

Table 5.2 Course specification

Course:		Databases 2
Course id:	0RI43B	
Number of ECTS:	6	
Teachers:		Luković S. Ivan, Mihajlović R. Dragan
Course status:		Elective

Number of active teaching classes (weekly)

Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
3	0	2	0	0

Precondition courses

1. Educational goal:

Adopting the techniques and methods of database design and advanced techniques of implementation, use and maintenance of databases.

2. Educational outcomes (acquired knowledge):

The acquired knowledge is used in future engineering courses, as well as in industry practice, in all application domains and projects where design, implementation and exploitation of database systems is included.

3. Course content/structure:

Functional dependencies and algorithms for generating relation scheme keys. Multivalued and join dependencies. Normal forms and design criteria for structuring relational database schema. Decomposition method. Synthesis method. Transformations of ER database schemas into relational data model. Methodological approaches to database schema design process. Techniques of database schema implementation at the level of database management systems. CASE tools for database schema design and implementation.

4. Teaching methods:

Teaching is performed through lessons, oral and computer exercises (in the computer classroom), as well as consultations. Through the teaching process, students are constantly motivated to an intensive discussion, problem oriented reasoning, independent study work and active participation in the whole lecturing process. The prerequisite to enter final exam is to complete all the pre-exam assignments by earning at least 30 points.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Complex exercises	Yes	10.00	Oral part of the exam	Yes	30.00
Complex exercises	Yes	10.00			
Complex exercises	Yes	10.00			
Exercise attendance	Yes	5.00			
Project	Yes	20.00			
Project task	Yes	15.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Mogin Pavle, Luković Ivan, Govedarica Miro	Principi projektovanja baza podataka, II izdanje	Fakultet tehničkih nauka, Novi Sad	2004
2,	Mogin P., Luković I.	Principi baza podataka	Fakultet tehničkih nauka i MP Stylos, Novi Sad	1996
3,	Date C. J.	An Introduction to Database Systems (8th Edition)	Addison Wesley	2004
4,	Groff, James R., Weinberg, Paul N., Oppel, Andrew J.	SQL: The Complete Reference, 3rd Edition	McGraw Hill, Inc.	2009

Table 5.2 Course specification

Course:		Exploitation of Distribution Systems / Networks
Course id:	EE420	
Number of ECTS:	6	
Teachers:		Popović N. Željko, Popović S. Dragan
Course status:		Elective

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
3	3	0	0	0

Precondition courses: None

1. Educational goal:

The main objective is acquiring knowledge on operative management of distribution systems in normal and disaster states and on operative planning and optimization of distribution system.

2. Educational outcomes (acquired knowledge):

Knowledge on business processes in distribution systems. Knowledge on methods, approach and tools applied in operation management and optimization of distribution system work.

3. Course content/structure:

Power flow calculation in distributive system. State estimation. Operational management in distributive systems. Management in normal conditions: Tools (software and hardware) for determination, implementation and surveillance of optimal state in distribution systems. Systems for surveillance, data acquisition and equipment management (SCADA) in distribution network. Telecommunication infrastructure. Contemporary software systems for distribution management system (DMS). Control of voltage and reactive states in distribution system: mathematical models, optimization techniques, possible implementation ways. Management in disaster states: tools, models and optimization procedures for detection and isolation of failures and supply restorations in current distribution systems. Systems for manipulation automatization in distribution systems. Management systems (OMS). Operational planning and optimization: management of planned cuts, short term forecast of consumption/production, models and optimization procedures for determination of optimal configuration of distribution networks in contemporary distribution systems. Assets management and maintenance: tools and models for surveillance and state estimation of distribution system elements, maintenance strategies: maintenance based on equipment condition, maintenance based on risk assessment. Tools and approaches to measurements and risk assessment. A part of the classes are carried out through independent study and research work in the field of planning and optimization of distribution network. Study and research work includes active informing from scientific resources, organization and performance of experiments and statisitical data processing, numeric simulations

4. Teaching methods:

Lectures or mentor work (consultations). Study and research work.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Lecture attendance	Yes	5.00	Oral part of the exam	Yes	65.00
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	D. Popović, D. Bekut i V. Treskanica	Specijalizovani DMS algoritmi	DMS Group, Novi Sad	2004
2,	J. A. Momoh	Electric Power Distribution Automation Protection an Control	CRC Press	2007
3,	J. Northcote-Green and R. Wilson	Control and automation of electric power distribution systems	CRC Press	2007
4,	C. Strauss	Practical Electrical Network Automation and Communication Systems	Newnes	2003
5,	T. Gonen	Electric Power Distribution System Engineering	McGraw Hill	1986
6,	H. L. Willis	Power Distribution Planning Reference Book	Marcel Dekker	2004

Table 5.2 Course specification

Course:		Smart Grid Communication Protocols
Course id:	ESI009	
Number of ECTS:	6	
Teacher:		Atlagić S. Branislav
Course status:		Elective

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
3	0	3	0	0

Precondition courses: None

1. Educational goal:

The aim of the subject is acquiring necessary knowledge for understanding industrial communication protocols applied in power grids.

2. Educational outcomes (acquired knowledge):

The outcome of the subject is capacity to use software systems based on industrial communication protocols applied in power grids

3. Course content/structure:

Industrial communications and characteristics of industrial communication networks. Networks used for process control (purpose, technology topology). Specifics and constrains of use in industrial plants (robustness, determinism, compatibility). Telecommunication technologies and standards (Frame Relay, ADSL, GSM, WiMax). Security and data protection. Standards and protocol specifications. Process control protocols (Modbus, Profibus). Introduction to smart grid protocols (IEC 61870, DNP3). Basics of SCADA integration protocols (OPC, ICCP).

4. Teaching methods:

Teaching is conducted through the lectures and computer practice. Throughout the computer practice student is obliged to complete practically oriented tasks.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	30.00	Theoretical part of the exam	Yes	30.00
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	G.Clarke, D.Reynders, E.Wright	Practical Modern SCADA Protocols: DNP3, 60870.5 and Related Systems	Elsevier	2004

Table 5.2 Course specification

Course:		Basics of control in power systems
Course id:	ESI010	
Number of ECTS:	6	
Teachers:		Erdeljan M. Aleksandar, Bekut D. Duško, Malbaša V. Vuk
Course status:		Elective

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
3	0	3	0	0

Precondition courses: None

1. Educational goal:

The goal of this course is to acquire the necessary knowledge about the basics theoretical foundations of control systems ?nd their implementation in power systems.

2. Educational outcomes (acquired knowledge):

Outcomes are the acquired knowledge, skills and abilities necessary for understanding the complexities of control systems and solving practical engineering problems in power systems.

3. Course content/structure:

Introduction: The purpose of automatic control systems, applications, basic concepts and principles of automatic control systems. Theoretical basis for modeling and mathematical models. Mathematical models of continuous linear and nonlinear systems. The elements of control systems: sensors, control elements, actuators. The elements of the control system in power systems. Control methods: open-loop control, the concept of feedback and closed-loop control, hierarchical control. Analysis and simulation of system behavior: stationary and transient response, the performance of the system. Stability and stability analysis. Elements of digital control systems. Introduction to the use of computers in control. Types of algorithms and software implementation: programable logic controllers, industrial controllers, PID controllers, complex control algorithms. Examples of control applications in power systems and smart grid systems.

4. Teaching methods:

Teaching is conducted through lectures and computer exercises. During the exercises the student is required to apply their knowledge in practice.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project task	Yes	15.00	Theoretical part of the exam	Yes	30.00
Project task	Yes	15.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	M. Stojić	Kontinualni sistemi automatskog upravljanja	Naučna Knjiga, Beograd	1978
2,	B. Kovačević, Ž. Đurović	Sistemi automatskog upravljanja- zbornik rešenih zadataka	Nauka, Beograd	1995
3,	D. Kukolj i ostali	Osnove klasične teorije automatskog upravljanja kroz rešene primere	Somel, Sombor	1995
4,	Projektovanje sistema automatskog upravljanja u prostoru stanja	Projektovanje sistema automatskog upravljanja u prostoru stanja	Univerzitet u Novom Sadu, Novi Sad	1995
5,	Richard C. Dorf; Robert H.Bishop	Modern Control Systems	Addison-Wesley	1974

Table 5.2 Course specification

Course:		Software security and safety in power engineering
Course id:	ESI011	
Number of ECTS:	6	
Teachers:		Lendak I. Imre, Popović S. Dragan
Course status:		Elective

Number of active teaching classes (weekly)

Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
3	0	3	0	0

Precondition courses: None

1. Educational goal:

The aim of this course acquiring necessary knowledge in the field of secure information systems, with a special emphasis on power systems.

2. Educational outcomes (acquired knowledge):

The educational outcome is the acquired knowledge in security and safety of information systems with a spedial emphasis on power systems.

3. Course content/structure:

Introduction and basic definitions. A short history of securtiy in information systems. Securing workstations, data, databases, computer networks and complex computer systems. Privacy, authentication (single sign-on), authorization. Cryptography, algorithms and standards in data encryption, digital signatures and certificates. Intrusion detection, computer viruses, intrusion techniques and defense mechanisms. The future of security in information systems. Security and safety case studies in power engineering.

4. Teaching methods:

Teaching is conducted through lectures and laboratory excercises. The lectures have a theoretical focus with a number of characteristic examples enforcing easier understanding. The laboratory excercises are linked to the lectures with more practical exmaples, and the topics covered in lectures are further expanded. Student are is required to complete practical tasks during laboratory excercises. Apart from lectures and laboratory excercises, consultations are held regularly

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	30.00	Theoretical part of the exam	Yes	30.00
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	A.S.Tanenbaum, M.van Steen	Distributed Systems: Principles and Paradigms	Pearson	2006
2,	R.J.Anderson	Security Engineering: A Guide to Building Dependable Distributed Systems	John Wiley & Sons	2008
3,	C.F.Pfleeger, S.L.Pfleeger	Security in Computing	Prentice Hall	2006

Table 5.2 Course specification

Course:		Smart Grid Networks
Course id:	ESI012	
Number of ECTS:	6	
Teachers:		Gavrić M. Milan, Katić A. Nenad, Pavlica N. Vladimir
Course status:		Elective

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
3	0	2	0	1

Precondition courses: None

1. Educational goal:

The main course objective is acquiring knowledge on modern management methods in power engineering networks. Advanced systems of automation, remote controlling and operation optimization and plant planning, together with smart systems for consumption and production management are the basis of “smart grids”. The objective is to obtain knowledge on models of the stated smart grid components.

2. Educational outcomes (acquired knowledge):

Knowledge on models of smart grid components. Knowledge on integrated management systems of power networks (SCADA, DMS, OMS, EMS), remote systems, systems o power consumption (Demand Response) and system for optimal management of distributed generators on renewable energy sources.

3. Course content/structure:

Integrated management systems (SCADA, DMS, OMS, EMS), remote systems, systems for consumption management (Demand response) and systems for optimal management of distributed generators for renewable energy sources (Distributed Generators). Business analysis, investment costs and smart grid using, benefits of using smart grids and technical and economic analysis.
Part of the course is based on the independent study and research work in the field of regulation of electric power industry in the free market economy.
Study and research work is based on the primary scientific sources, organization and conduction of experiments as well as statistical analysis of data, numerical simulations, and writing a paper on the narrow scientific area in which doctoral dissertation is based.

4. Teaching methods:

Lectures. Consultation. Study and research work.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Lecture attendance	Yes	10.00	Oral part of the exam	Yes	70.00
Term paper	Yes	20.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	***	Pisani materijal koji se dobija od predavača		2013

Table 5.2 Course specification

Course:		Integration of power systems
Course id:	ESI014	
Number of ECTS:	6	
Teachers:		Popović S. Dragan, Pavlica N. Vladimir, Varga D. Ervin
Course status:		Elective

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
3	0	2	0	1

Precondition courses: None

1. Educational goal:

The aim of the course is introduction to integration technologies and patterns used for power systems and their applications integrations.

2. Educational outcomes (acquired knowledge):

The outcome of the course is working knowledge of standards-based architecture and methodology for the integration of applications and systems related to power grids.

3. Course content/structure:

Distributed systems integrations. Integration patterns. Integration use cases in power grids. Message payload definition in compliance with IEC 61968 standard. Message exchange – periodic, on request, on event. Characteristics of modern ESB architecture as standard for system integration. CIM/XML message defined with XSD schema. Interface definition – WSDL. Integration frameworks - Spring Integration, Mule ESB. Messaging systems - WCF, JMS, MSMQ. OPC UA. Multispeak specification.

4. Teaching methods:

Teaching is conducted through lectures and computer exercises. During the exercises the student is required to apply their knowledge in practice.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	30.00	Theoretical part of the exam	Yes	30.00
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Erl, T.	SOA Principles of Service Design	Prentice Hall	2008
2,	Gregor Hohpe, Bobby Woolf	Enterprise Integration Patterns: Designing, Building, and Deploying Messaging Solutions	Pearson Education	2003
3,	Martin Fowler	Patterns of Enterprise Application Architecture	Pearson Education	2003
4,	PM: L. King	The Common Information Model for Distribution: An Introduction to the CIM for Integrating Distribution Applications and Systems - 1016058	EPRI	2008
5,	PM: L. King	Enterprise Service Bus Implementation Profile - Integration Using IEC 61968 - 1018795	EPRI	2009
6,	PM: J. Simmins	Distribution Operations Guide to Enterprise Service Bus Suites - 1020102	EPRI	2010
7,	Mahnke, Wolfgang, Leitner, Stefan-Helmut, Damm, Matthias	OPC Unified Architecture	Springer	2009
8,	Gary McNaughton, Waren McNaughton, Cornice Engineering, Inc.	http://www.multispeak.org/about/Specification/Documents/MultiSpeak_V3_UserGuideFinal_013006.pdf	NRECA	2006

Table 5.2 Course specification

Course:		Computer Graphics
Course id:	RI4A	
Number of ECTS:	6	
Teachers:		Ivetić V. Dragan, Mihajlović R. Dragan, Hajduković P. Miroslav
Course status:		Elective

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
3	0	2	0	0

Precondition courses: None

1. Educational goal:

Students learn about development and manipulation of elements of computer graphics in 3D space.

2. Educational outcomes (acquired knowledge):

The acquired knowledge and skills are used for specific visualization information software using DirectX and/or Open GL, digitalization and processing of graphic materials - Photoshop, CorelDraw and Matlab.

3. Course content/structure:

Introduction. Hardware and software architecture ((OpenGL, DirectX, X3D) of graphic computer systems. Overview of 3D grapihcs pipeline. 3D modeling techniques. Model/view transformations. Colors. Local illumination and shading Clipping. Projection. Rasterisation. Hidden surface removal. Texture mapping and effects. Global Illumination. Graphics user interface and devices.

4. Teaching methods:

Lectures. Computer practice Consultations. Course material is divided into two parts and is examined in the form of two tests during the course. In practice classes 3D primitives are presented and manipulated using OpenGL or DirecX depending on the student's choice. The quality of the Practice work is evaluated. Successfully completed practice is a prerequisite for taking the final examination. The examination is written. the final grade is based on the sum of points achieved on examination, tests and practice tasks.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Complex exercises	Yes	50.00	Theoretical part of the exam	Yes	30.00
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	D. Ivetić	Računarska grafika	-	2012
2,	J. F. Hughes , A.van Dam, M. McGuire, D. Sklar, J. D. Foley, S.K. Feiner, K. Akeley	Computer Graphics: Principles and Practice (3rd Edition)		2013
3,	Peter Shirley, Steve Marschner, with ...	FUNDAMENTALS OF COMPUTER GRAPHICS		2009
4,	Akenine-Möller T., Heines E. and Hoffman N	REAL-TIME RENDERING, 3rd Ed.		2008

Table 5.2 Course specification

Course:	Real Time System Programming 2
Course id: E23M	
Number of ECTS: 6	
Teacher:	Popović V. Miroslav
Course status:	Elective

Number of active teaching classes (weekly)

Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
2	0	3	0	1

Precondition courses

1. Educational goal:

Educating students in design and parallel programming of real time system's software components with focus on real time operating systems and complex parallel software architectures.

2. Educational outcomes (acquired knowledge):

Ability to design and implement parallel programs for real time system's software components with focus on real time operating systems and complex parallel software architectures.

3. Course content/structure:

Introduction. Part 1: Operating system design (Management of resources. Management of processor: process planning algorithms, deadlocks of processes, time driven software, example of time driven system. Memory management: memory allocation in multiprogramming conditions, virtual memory. Input-output management: input-output units, interrupts and I/O processes, program independence of I-O units, communication programs. Examples of RTOS.). Part 2: Parallel programming of complex parallel software architectures (Examples of architectures. Parallelization methodology.).

4. Teaching methods:

Lectures, tutorials, computer practice classes, consultations. During the semester students first complete laboratory practice tasks and then a course project. This is completed during the computer practice classes.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Computer excersise defence	Yes	20.00	Theoretical part of the exam	Yes	30.00
Computer exercise attendance	Yes	5.00			
Lecture attendance	Yes	5.00			
Project	Yes	40.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	V. Kovačević i M. Popović	Sistemska programska podrška u realnom vremenu 2: Operativni sistemi za rad u realnom vremenu	FTN Izdavaštvo, Novi Sad	2011

Table 5.2 Course specification

Course:		Distributed Computer Systems in Power Systems
Course id:	ESI015	
Number of ECTS:	6	
Teachers:		Erdeljan M. Aleksandar, Malbaša V. Vuk, Varga D. Ervin
Course status:		Elective

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
3	0	2	0	1

Precondition courses: None

1. Educational goal:

The goal of this course is to acquire the necessary knowledge about the concepts and paradigms of distributed systems and their implementation in the power systems.

2. Educational outcomes (acquired knowledge):

Outcomes are the knowledge, skills and abilities necessary for understanding the complexity of distributed systems and solve practical engineering problems in power systems.

3. Course content/structure:

Introduction: definition, types and characteristics of distributed system. Examples of distributed systems in power systems. The need for distributed operating systems and applications; emphasizing high-level protocols and distributed state sharing as the key technologies. Topics: architecture, styles, distributed shared memory, object-oriented distributed system design, distributed services and data, distributed directory services. Communication subsystem. Synchronization: atomic transactions and time synchronization. Data replication and consistency: consistency models and application-sufficient consistency; access to remote data, file access. Processes: process scheduling ?nd process migration. Scalability and storage/communication abstractions on distribution. Robustness in the face of failure. Security. Openness and integrations in power systems.

4. Teaching methods:

Teaching is conducted through lectures and computer exercises. During the exercises the student is required to apply their knowledge in practice.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	30.00	Theoretical part of the exam	Yes	30.00
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	A. Erdeljan	Štampani materijal koji pokriva predavanja i vežbe	FTN	-
2,	Andrew S. Tenenbaum, Maarten Van Steen	Distributed Systems, Principles and Paradigms	Pearson Education, inc.	2007

Table 5.2 Course specification

Course:		Data structures and algorithms in power systems
Course id:	ESI020	
Number of ECTS:	6	
Teachers:		Čapko Lj. Darko, Nimrihter D. Miroslav
Course status:		Elective

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
3	0	2	0	1

Precondition courses: None

1. Educational goal:

The aim of this course is the detailed study of data structures and algorithms applied in power systems.

2. Educational outcomes (acquired knowledge):

The outcome of this course is the candidates' capacity to develop software with data structures and algorithms for power systems.

3. Course content/structure:

Data structures applied in power systems: steaksand queues, lists, trees, hash tables. Graph representation of power energy network. Sorting. Graph algorithms in power energy networks: Breadth-first search, Depth-first search, Shortest Paths, Maximum Flow. NP-Completeness. Approximation algorithms: graph partitioning, graph coloring, set covering problem.

4. Teaching methods:

Teaching is conducted through lectures and computer exercises. Throughout the computer exercises students are obliged to complete compulsory practically oriented tasks.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	30.00	Theoretical part of the exam	Yes	30.00
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	T. H. Cormen, C. E. Leiserson, R. L. Rivest,C. Stein	Introduction to Algorithms, Third Edition	MIT Press	2009

Table 5.2 Course specification

Course:		Intercomputer Communications and Computer Networks 1
Course id:	RT41	
Number of ECTS:	6	
Teacher:	Bašičević V. Ilija	
Course status:	Elective	

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
3	0	2	0	0

Precondition courses

1. Educational goal:

Students are able to design, realize and test communication protocols and learn about the basics of TCP/IP Internet technologies.

2. Educational outcomes (acquired knowledge):

Students are able to design, realize and test communication protocols and know about the basics of TCP/IP Internet technologies.

3. Course content/structure:

Introduction. Protocol design (the notion of protocol, languages for formal specification of protocols - SDL, MSC, TTCN, UML). Methodology of protocol realization (core, design pattern, class library for realization of protocols). Examples of protocol realization: OSI LAPB and X.25 network level. The Internet (Structure of the Internet, component of the Internet physical architecture, Commutation elements). TCP/IP Internet (Internet services, history). Internet concepts (Internet address, ARP, RARP, Internet protocol IP, ICMP, UDP, TCP). Transparent protocol converters, subnetwork addressing and supranetwork addressing. Domain name system. Protocols and applications of remote interactive operation (telnet). Database transmission (TFTP and FTP). Electronic mail protocols and applications (e-mail, SMTP and POP3)

4. Teaching methods:

Lectures. Tutorials. Computer practice. Consultations.
The teaching is divided into two blocks. In the first block students attend theoretical classes during the mornings. In the afternoon they attend computer practice classes. During the second block students work on their examination papers.

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

Literature

Ord.	Author	Title	Publisher	Year
1,	D. Komer	TCP/IP Internet		2005
2,	M. Popović	Međuračunarske komunikacije i računarske mreže I, skripte.		2005

Table 5.2 Course specification

Course:		Stručna praksa			
Course id:	ESI021				
Number of ECTS:	3				
Teachers:					
Course status:		Mandatory			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
0	0	0	0	3	
Precondition courses		None			
1. Educational goal:					
2. Educational outcomes (acquired knowledge):					
3. Course content/structure:					
4. Teaching methods:					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Literature					
Ord.	Author	Title	Publisher	Year	

Table 5.2 Course specification

Course:					
Course id:	ESI044				
Number of ECTS:	3				
Teachers:					
Course status:	Mandatory				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
0	0	3	0	0	
Precondition courses	None				
1. Educational goal:					
2. Educational outcomes (acquired knowledge):					
3. Course content/structure:					
4. Teaching methods:					

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Homework	Yes	50.00	Theoretical part of the exam	Yes	50.00

Literature				
Ord.	Author	Title	Publisher	Year
1,		Aktuelna literatura		2013

Table 5.2 Course specification

Course:		Preparation and Defence of Graduate Thesis
Course id:	E1DR1	
Number of ECTS:	12	
Teachers:		
Course status:	Mandatory	

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
0	0	0	0	10

Precondition courses: None

1. Educational goal:

Application of basic acquired knowledge and methods in solving practical problems within the selected area. Students investigate the problem, its structure and complexity, and based on conducted analysis, they draw conclusions on the possible modes of solving. Researching the literature, students are introduced to the methods for solving similar tasks, and the practice in their solving. Obtaining the knowledge on modes, structure and form of writing a report after the conducted analyses and other activities within the set topic of the final thesis. By elaborating the final thesis, students acquire experience for writing their theses where it is necessary to describe problems, conducted methods and procedures, as well as results obtained. Furthermore, the objective of elaborating and defending the final thesis is to develop the ability to use the results of individual work and prepare it in an adequate form to be publicly presented.

2. Educational outcomes (acquired knowledge):

Enabling students for individual application of the previously obtained knowledge in diverse fields being studied in order to observe the structure of the set problem and approach the systematic analysis to draw conclusions on possible directions of its solving. By individually using the literature, students expand their knowledge in the selected field and research diverse methods and theses related to similar problems. By individually researching and solving tasks in the given area, students acquire knowledge on the complexity of the problems in their professional field. By elaborating the graduate thesis, students acquire certain experiences that can be applied in practice while solving problems in their professional field. By preparing the results for public defence, in the public defence and on answering questions and comments presented by the committee, students acquire necessary experience on the manners of practically presenting results of an individual or team work.

3. Course content/structure:

Formed for each student in particular, in accordance with the demands and the area enclosed within the set task of the final thesis. The student, in agreement with the mentor, completes the final thesis in the written form in accordance with the regulations of the Faculty of Technical Sciences. The student prepares and defends the written final thesis in public, in agreement with the mentor and in accordance with the prescribed standards. Student researches the professional literature, specialization and final thesis dealing with the same topic, performs analyses in order to find the solution to the concrete task defined in the task of the final thesis.

4. Teaching methods:

The mentor of the final thesis sets the task of the final thesis and presents it to the student. Student is obliged to elaborate the final thesis within the set task defined in the task of the graduate thesis. During the elaboration of the final thesis, mentor can provide additional instructions to the student, direct to certain literature and additionally direct in order to have a more qualitative final thesis. Within the theoretical part of the final thesis, student has consultations with the mentor, and if needed, with other teachers dealing with the topics related to the topic of the graduate thesis. Within the set topic, if needed, student can conduct certain measuring, researching, counting, surveying and the like, if it is predicted by the final thesis task. Student completes the final thesis and on obtaining the agreement of the committee for evaluation and defence, provides bounded copies to the committee. The defence of the graduate thesis is public, and the student has the o

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Writing the final paper with theoretic basis	Yes	50.00	Final exam defence	Yes	50.00

Table 5.2 Course specification

Course:		GIS in power systems
Course id:	ESI018	
Number of ECTS:	6	
Teachers:		Sarić T. Andrija, Malbaša V. Vuk, Varga D. Ervin
Course status:		Elective

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
3	0	2	0	1

Precondition courses: None

1. Educational goal:

The aim of the course is detail study of Geographical Information Systems applications in power grids.

2. Educational outcomes (acquired knowledge):

The outcome of the course is working knowledge of design and applications of GIS in power grids.

3. Course content/structure:

Geographic Information System definition. Coordinate systems and projections. Coordinate transformations. Vector and raster models of geodata. Geodatabase modeling. Graphs. Network connectivity and topology. Network models and dynamic network segmentation in power systems. Metadata. Validation definition and application. Integration with GPS and SCADA. Network geodata acquisition. Interoperability. OGC standards, WMS, WFS.

4. Teaching methods:

Teaching is conducted through the lectures and computer practice. Throughout the computer practice student is obliged to complete practically oriented tasks.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	30.00	Theoretical part of the exam	Yes	30.00
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	M. Gavrić	Geoinformacioni sistemi u elektroenergetici – skripta u pripremi	-	-
2,	John E. Harmon, Steven J. Anderson	The Design and Implementation of Geographic Information Systems	Wiley	2003
3,	David J. Maguire, Michael Batty, Michael F. Goodchild	GIS, spatial analysis, and modeling	ESRI	2005
4,	Clodoveu Augusto Davis, Antônio Miguel Vieira. Monteiro	Advances in Geoinformatics	Springer	2007
5,	ESRI and Miner and Miner	Electric Distribution Data Model Reference Book - http://downloads2.esri.com/resources/datamodels/electric_distribution.zip	ESRI	2001
6,	Jeff de la Beaujardiere	OpenGIS® Web Map Server Implementation Specification	Open Geospatial Consortium	2006

Table 5.2 Course specification

Course:	Smart Grid Programming
Course id: ESI016	
Number of ECTS: 6	
Teachers:	Bekut D. Duško, Gavrić M. Milan, Lendak I. Imre, Pavlica N. Vladimir, Varga D. Ervin
Course status:	Elective

Number of active teaching classes (weekly)

Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
3	0	3	0	0

Precondition courses: None

1. Educational goal:

The aim of the subject is acquiring necessary knowledge for programming of smart grid low level components

2. Educational outcomes (acquired knowledge):

The outcome of the subject are skills required to use and program low level components present in smart grids.

3. Course content/structure:

Basics of control systems. Physical components applied in smart grids. Embedded systems and their use in smart grid. System and application software of process embedded computers. Design, coding and testing of system and application softer for process control computers. Standard IEC61131-3 and its use in smart grid. Examples and lab practice.

4. Teaching methods:

Teaching is conducted through the lectures and computer practice. Throughout the computer practice student is obliged to complete practically oriented tasks.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	30.00	Theoretical part of the exam	Yes	30.00
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Krzysztof Iniewski	Smart Grid Infrastructure & Networking	McGraw-Hill Companies	2012
2,	Branislav Atlagić	Projektovanje sistema za rad u realnom vremenu, skripta	-	2005
3,	Miroslav Hajduković, Stevan Odri	Programski jezici za programabilne kontrolere-međunarodni standard IEC 61131-3	Univerzitet Novi Sad	1999

Table 5.2 Course specification

Course:		Critical mission software for power grids
Course id:	ESI019	
Number of ECTS:	6	
Teachers:		Atlagić S. Branislav, Sarić T. Andrija
Course status:		Elective

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
3	0	2	0	1

Precondition courses: None

1. Educational goal:

The aim of the subject is detail study of critical mission software systems applied in power grids.

2. Educational outcomes (acquired knowledge):

The outcome of the subject is capacity to master critical mission software systems applied in power grids.

3. Course content/structure:

Real and high performance SCADA/DCS systems applied in power grid. Real time software structures. Interfacing real time systems with phisycal world environment. Redundant and distributed real-time architectures. Continual and batch control over industrial processes. Standard ISA S88. Methods for verification and testing real time systems. Integration with business information systems. Standards ISA 95 and MultiSpeak. Integration with decision support systems.

4. Teaching methods:

Teaching is conducted through the lectures and computer practice. Throughout the computer practice student is obliged to complete practically oriented tasks.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	30.00	Theoretical part of the exam	Yes	30.00
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	B.Atlagić	Softverski sistemi sa kritičnim odzivom – skripta u pripremi	-	-
2,	D.Bailey, E.Wright	Practical SCADA for Industry	Elsevier	2003

Table 5.2 Course specification

Course:		Mobile computing in power systems
Course id:	ESI017	
Number of ECTS:	6	
Teachers:		Lendak I. Imre, Malbaša V. Vuk
Course status:		Elective

Number of active teaching classes (weekly)

Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
3	0	3	0	0

Precondition courses: None

1. Educational goal:

The aim of the course is acquiring necessary knowledge in the field of mobile computing application in power systems.

2. Educational outcomes (acquired knowledge):

Students passing this exam will be capable of planning and implementing mobile computing solutions in the power engineering domain.

3. Course content/structure:

Introduction and basic definitions. The history of mobile computing. Mobile computing architectures. Global System for Mobile communications (GSM), Short Message Service (SMS). Protocols in mobile computing. Intelligent networks and internetworking. Data and voice transmission protocol convergence. Accessing services and data from mobile devices. Security in mobile computing. The future of mobile computing.Mobile operating systems: Android, Apple iOS, Windows Phone, etc. Programming mobile devices and smart phones in modern software development environments, e.g. Java 2 Micro Edition. Case studies in power grid.

4. Teaching methods:

Teaching is conducted through lectures and laboratory excercises. The lectures have a theoretical focus with a number of characteristic examples enforcing easier understanding. The laboratory excercises are linked to the lectures with more practical exmaples, and the topics covered in lectures are further expanded. Student is required to complete practical tasks during laboratory excercises. Apart from lectures and laboratory excercises, consultations are held regularly.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	30.00	Theoretical part of the exam	Yes	30.00
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	R.Kamal	Mobile Computing	Oxford University Press	2008
2,	F.Adelstein, S.K.S.Gupta, G.Richard, L.Schwiebert	Fundamentals of Mobile and Pervasive Computing	McGraw-Hill Professional	2004
3,	S.Poslad	Ubiquitous Computing: Smart Devices, Environments and Interactions	Wiley	2009
4,	G.Frederick, R. Lal	Beginning Smartphone Web Development: Building JavaScript, CSS, HTML and Ajax-based Applications for iPhone, Android, Palm Pre, BlackBerry, Windows Mobile and Nokia S60	Apress	2010

Standard 06. Programme Quality, Contemporaneity and International Compliance

The study program of Power Software Engineering at the Faculty of Technical Sciences in Novi Sad is in compliance with modern European and worldwide educational and scientific trends in the field of Electric and Computer Engineering in Europe and worldwide.

1. National Technical University of Athens, School of Electrical and Computer Engineering, Greece (http://http://www.ece.ntua.gr/index.php?option=com_courses)
2. Faculty of Electrical Enginering and Information Technology, University of Hannover,Germany (http://www.et-inf.uni-hannover.de/etech-it.html?&L=1)
3. Faculty of Electrical Enginering, Graz University of Technology, Austria (http://portal.tugraz.at/portal/page/portal/TU_Graz/Studium_Lehre/Studien/ET_Bachelor)
4. Department of Electrical Engineering (EE) at Stanford University http://ee.stanford.edu/research-areas/information-systems
5. Department of Information and Communication Engineering, Tokyo Denki University http://atom.dendai.ac.jp/info_e/060424_987.html
6. Faculty of Electrical Engineering and Information Technology, Leipzig University http://www.eit.htwk-leipzig.de/
7. Department of Information Technology, Uppsala University http://www.it.uu.se/

The study program of Power Software Engineering is conceived to offer a comprehensive education to students and the most modern and expert knowledge and skills in the field in question.

Standard 07. Student Enrollment

According to the society's needs and available resources, the Faculty of Technical Sciences accepts a number of students at the Undergraduate Academic Studies, the study program of Power Software Engineering, who are either financed by the budget or self-financed. The number of the students is defined by a special decision of Educational-Scientific Council of the Faculty and founders' decisions. The selection of applicants and their enrolment is done on the basis of average grades during the previous education.
Students in other study programs, as well as individuals who graduated from other undergraduate academic studiesmay enroll in this study program as well. The Committee for Evaluation (consisting of the manager of the study program and the heads of all departments participating in the realization of the study program) evaluates all the exams passed and other activities of the candidate which are relevant for the enrolment and on the basis of the recognized number of points it is determined whether the candidate can be enrolled in the Master Academic Studies of the chosen study group – module. The exams passed and evaluated activities are recognized entirely, partly with the corresponding additional work or are not recognized at all.

Standard 08. Student Evaluation and Progress

The final grade in every of subjects of this study program is formed by continual observation of the work and results the students achieved during the lectures, completion of pre exam assignments and in the final exam.
The students master the study program by passing exams thus obtaining a certain number of ECTS credits, in accordance with the curriculum of the study program. Every subject in the program carries a certain number of ECTS credits gained with each exam passed. The number of ECTS credits is determined on the basis of the amountof work students perform in mastering of a certain subject and by application of unique methodology of the Faculty of Technical Sciences in Novi Sad for all study programs. The success of students in mastering of a certain subject is continually observed and is evaluated with credits. The maximum number of credits a student can acquire in a subject is 100.

The students acquire the credits in a subject by attending the lectures, by fulfilling the pre-exam assignments and by passing the exams. The minimal number of credits a student can acquire by fulfilling the pre exam assignments throughout the lectures is 30 and the maximum 70.

Every subject in the study program has a clear and published mode of credits acquisition including the credits a student acquires on the basis of every particular activity defined in the syllabus or by fulfilling the pre exam assignments and by passing the exams.

The students' final achievement in a subject is graded from 5 (failed) to 10 (excellent). The students' gradeis based on the total number of credits the students acquired by fulfilling the pre exam assignments and by passing the exams, taking into account the quality of acquired knowledge and skills. In order for the studentsto be able to take an exam in a specific subject, they are obliged to acquire at least 55% credits in the preexam assignments during the semester in which the lectures take place. Additional requirements for passing the exams are defined by the syllabus for every subject separately.

The advancement of the students throughout the studies is defined by the Rules of studying on undergraduate academic studies of the Faculty of Technical Sciences in Novi Sad.

Standard 09. Teaching Staff

For the realization of the study program of Power Software Engineering of Master Academic Studies at the Faculty of Technical Sciences in Novi Sad the teaching staff having the required professional and scientific qualifications is assigned.

The number of lecturers is in accordance with the requirements of the study program and is determined by the number of subjects and the number of classes within the subjects. The total number of lecturers is sufficient for realization of the total number of classes in the study program so the lecturers realize 180 classes of active teaching on average per year (lectures, consultations, practice, practical work, etc.) or 6 classes on average per week. None of the lecturers realizes more than 12 classes per week, either at the Faculty of Technical Sciences in Novi Sad or any other higher education institution in Serbia. Out of the total number of required lecturers, more than 70% is employed on a permanent basis at the Faculty of Technical Sciences in Novi Sad.

The number of associates is in accordance with the requirements of the study program. The total number of associates is sufficient for realization of the total number of classes in the study program so the associates realize 300 classes of active teaching on average per year or 10 classes on average per week. None of the lecturers realizes more than 20 classes per week, either at the Faculty of Technical Sciences in Novi Sad or any other higher education institution in Serbia.

Scientific and professional qualifications of the teaching staff are in accordance with academic and scientific area and specialist field in question and the level of their duties as well. Each lecturer has at least five references from specialist or scientific and professional field in question within the study program.
The maximum number of students in a group is 32, in a group for auditory practice it is 16, and group for calculation, computer and laboratory practice it is 8 students.

All the information on lecturers and associates (CVs, academic career, representative references) are available to public via the Internet web site of the Faculty of Technical Sciences in Novi Sad and other means available to the public.

Science, arts and professional qualifications

Name and last name:	Atlagić S. Branislav
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	07.01.1985
Scientific or art field:	Computer Engineering and Computer Communication

Academic carieer	Year	Institution	Field
Academic title election:	2011		Computer Engineering and Computer Communication
PhD thesis	2001	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
Magister thesis	1996	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
Bachelor's thesis	1984	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering

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

	ID	Course name	Study programme name, study type
1.	E230	Logic Design of Computer Systems 2	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	RT49	Real Time Software 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
3.	RT49A	Real Time Software 2	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
4.	ESI006	Introduction to critical mission software for power grids	(ES0) Power Software Engineering, Undergraduate Academic Studies
5.	ESI009	Smart Grid Communication Protocols	(ES0) Power Software Engineering, Undergraduate Academic Studies
6.	ESI019	Critical mission software for power grids	(ES0) Power Software Engineering, Undergraduate Academic Studies
7.	RT58	Dedicated Computer Structure Design 2	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
8.	ESI025	Simulation of Power Greed critical mission systems	(ES0) Power Software Engineering, Master Academic Studies
9.	ESI033	Advanced Power Grid Communication Protocols	(ES0) Power Software Engineering, Master Academic Studies
10.	DRNI02	Selected Topics in Advanced Software Architecture	(E20) Computing and Control Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Udžbenik "Logičko projektovanje računarskih sistema II", V.Kovačević, B.Atlagić, FTN 2007/2009.
2. M.Popovic, B.Atlagic, V.Kovacevic, "Case study: a maintenance practice used with real-time telecommunications software", Journal of Software Maintenance and Evolution, John Wiley and Sons Ltd, March-April issue, 2001.
3. D.Kukolj, M.Berko-Pušić, B.Atlagić, "Experimental Design of Supervisory Control Functions Based on Multylayer Perceptron", Artificial Intelligence for Engineering Design, Analysis and Manufacturing, 15(5) 2001, pp. 425-431.

Representative refferences (minimum 5, not more than 10)	
4.	D.Kukolj, B.Atlagic, M.Petrov, "Data clustering using a re-organizing neural network", Taylor & Francis Inc., Cybernetics and Systems, An Int. Journal, Vol. 37, No. 7, 2006, pp. 779-790.
5.	Generalizovani akviziciono upravljački sistem - GAUS
6.	B.Atlagic, M.Sagi, D.Milinkov, S.Culaja, B.Bogovac, “A way towards efficiency of SCADA infrastructure”, ECBS 2012, Novi Sad 2012.
7.	B.Atlagic, D.Milinkov, M.Sagi, B.Bogovac, “High-Performance Networked SCADA Architecture For Safety-Critical Systems”, ECBS-EERC 2011, Bratislava.
8.	B.Atlagic, V.Mihić, T.Maruna, "A Methodology for Specification and Development of Control Code in Industrial DCS Application", XIV International Conference on Systems Science, Wroclav 2001.
9.	B.Atlagic, M.Sagi, D.Milinkov, B.Bogovac, S.Culaja, "Model-based approach to the Development of SCADA applications" , The 9th IEEE Workshop on Model-Based Development for Computer-Based Systems, Novi Sad 2012.
10.	B.Atlagic, D.Kukolj, V.Kovacevic, M.Popovic, "Application development environment of an integrated SCADA system", EUROCON 2003, Ljubljana 2003.

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	0			
Total of SCI(SSCI) list papers :	3			
Current projects :	Domestic :	2	International :	1

Science, arts and professional qualifications

Name and last name:	Bajović M. Vera
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	16.02.1977
Scientific or art field:	Theoretical Electrotechnics

Academic carieer	Year	Institution	Field
Academic title election:	2011		Theoretical Electrotechnics
PhD thesis	1994	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
Magister thesis	1983	School of Electrical Engineering - Beograd	Electrical Measurements
Bachelor's thesis	1974	Faculty of Technical Sciences - Priština	Electroenergetics

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

	ID	Course name	Study programme name, study type
1.	E216	Fundamentals of Electrical Engineering	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies
2.	EOS01	Fundamental electrical engineering	(E01) Power Engineering - Renewble Sources of Electrical Energy, Undergraduate Professional Studies
3.	H104	Fundamentals of Electrical Engineering 1	(H00) Mechatronics, Undergraduate Academic Studies
4.	E105	Fundamentals of Electrical Engineering 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
5.	E110	Fundamentals of Electrical Engineering 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
6.	ETI04	Fundamentals of Electrical Engineering	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
7.	ETI29	Monitoring and Noise Protection	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
8.	DE208S	Selected Chapters on Electromagnetic Compatibility	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
9.	E1IEP	Investigation of electromagnetic fields	(MR0) Measurement and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Bajovoć Vera: "Ekstrakcija obeležja za automatsku izgradnju stabala odlučivanja u tehničoj dijagnostici sa nedovoljnom apriornom informacijom", Fakultet tehničkih nauka u Novom Sadu, 1994.
2. Neda Pekarić-Nađ, Vera Bajović: "Zbirka rešenih ispitnih zadataka iz osnova elektrotehnike", Građevinska knjiga, Beograd, 1987.
3. Bojković Gordana, Bajović Vera: The impact of process measurement on industrial diagnostics, Facta Universitatis, Electronics and Energetics, vol. 13, No.2, pp. 143-155, August 2000.
4. Kasaš-Lažetić K., Prša M., Bajović V., Đurić N.: Verification of the Earth Return Impedance , 5. PSU-UNS International Conference: Energy and the Environment, Phuket, 2-3 Maj, 2011
5. Đurić N., Prša M., Kasaš-Lažetić K., Bajović V.: Serbian Remote Monitoring System for Electromagnetic Environmental Pollution, 10. International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Services - TELSIKS, Niš, 5-8 Oktobar, 2011, pp. 701-704, ISBN 978-1-4577-2016-1
6. Đurić N., Prša M., Kasaš-Lažetić K., Bajović V.: Information Network for EMF Monitoring in Power System, 16. International Symposium on Power Electronics – Ee, Novi Sad, 26-28 Oktobar, 2011, pp. 1-5, ISBN 978-86-7892-355-5
7. Bajović V., Đurić N., Herceg D.: Serbian Laws and Regulations as Foundation for Electromagnetic Field Monitoring Information Network, 10. International Conference on Applied Electromagnetics, Niš, 25-29 Septembar, 2011, ISBN ISBN: 978-86-6125-04
8. Kasaš-Lažetić K., Prša M., Bajović V., Vukobratović B.: Determination of ACSR's Electrical Characteristics, 10. International Conference on Applied Electromagnetics, Niš, 25-29 Septembar, 2011, pp. 1-4, ISBN 978-86-6125-042-2
9. Prša M., Kasaš-Lažetić K., Bajović V.: Determination of Earth Impedance, PSU-UNS International Conference on Engineering and Environment – ICEE - 2007, Phuket, Thailand: Faculty of engineering, Prince Songkla University, 10. i 11. Maj, 2007, pp. 240-726 -240-729.

Representative refferences (minimum 5, not more than 10)	
10.	Bajović Vera, Bojković Gordana: Inductive Learning Based Framework For Diagnostic System Building, 3rd International Symposium Interdisciplinary Regional Research, Novi Sad, FR Yugoslavia, September, 1998, pp. 21-23.

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	0			
Total of SCI(SSCI) list papers :	0			
Current projects :	Domestic :	0	International :	0

Science, arts and professional qualifications

Name and last name:	Bašičević V. Ilija
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	-
Scientific or art field:	Computer Engineering and Computer Communication

Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Computer Engineering and Computer Communication
PhD thesis	2009	Faculty of Technical Sciences - Novi Sad	Computer Engineering and Computer Communication
Magister thesis	2001	Faculty of Technical Sciences - Novi Sad	Computer Science
Bachelor's thesis	1998	Faculty of Technical Sciences - Novi Sad	Computer Science

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

	ID	Course name	Study programme name, study type
1.	E23B	Fundamentals of Computer Networks 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E23B1	Computer Network Fundamentals 2	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	RT41	Intercomputer Communications and Computer Networks 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
4.	DRT05	Selected Chapters of Computer Communications	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. I. Basicevic, M. Popovic, "Use of SIP in the Development of Telecom Services - A Case Study", "The Journal of the Institute of Telecommunications Professionals", 2008, Vol. 2, Part 3, ISSN 1447-4739.
2. I.Basicevic, M. Popovic, V. Kovacevic, "Use Of Publisher-Subscriber Design Pattern in Infrastructure of Distributed IDS Systems", ICNS 2007, Athens, Greece, June 19-23, 2007
3. I.Basicevic, M. Popovic, D. Kukolj, "Comparison of SIP and H.323 Protocols", ICDT 2008, Bucharest, Romania, June 29- July 5, 2008.
4. M. Popovic, I.Basicevic, V.Vrtunski, "A Task Tree Executor: New Runtime for Parallelized Legacy Software", ECBS 2009, San Francisco, USA, April 14-16, 2009.
5. Bašičević I., Popović M.: Session Initiation Protocol, Encyclopedia of Internet technologies and applications, Editors Mario Freire and Manuela Pereira, IGI Global, Hershey, Pennsylvania 17033, USA, 2008, ISBN 978-1-59140-993-9
6. Popović M., Bašičević I.: Test case generation for the task tree type of architecture, Information and Software Technology, Elsevier, 2010, Vol. 52, No 6, pp. 697-706, ISSN 0950-5849
7. Popović M., Kuprešanin I., Bašičević I.: Generic method for statistical testing of parallel programs based on task trees, Scientific Research and Essays, 2012, Vol. 7, No 11, pp. 1992-2248, ISSN 1992-2248
8. Bašičević I., Kukolj D., Popović M.: On the Application of Fuzzy-based Flow Control Approach to High Altitude Platform Communications, DOI 10.1007/s10489-009-0190-y, Applied Intelligence, 2010, ISSN 1573-7497
9. Popović M., Bašičević I.: Formal verification of embedded software based on software compliance properties and explicit use of time, International Journal of Computers, 2011, Vol. 5, No 3, pp. 423-430, ISSN 1998-4308
10. Bašičević I., Popović M.: Operational profiles for Statistical Testing of Distribution Management System, INFOCOMP Journal of Computer Science, 2011, Vol. 10, No 2, pp. 8-16, ISSN 1807-4545

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

Quotation total :	10			
Total of SCI(SSCI) list papers :	4			
Current projects :	Domestic :	1	International :	1

Science, arts and professional qualifications

Name and last name:	Bekut D. Duško
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	-
Scientific or art field:	Electroenergetics

Academic carieer	Year	Institution	Field
Academic title election:	2004	Faculty of Technical Sciences - Novi Sad	Electroenergetics
PhD thesis	1994	School of Electrical Engineering - Beograd	Electroenergetics
Magister thesis	1990	School of Electrical Engineering - Beograd	Electroenergetics
Bachelor's thesis	1986	Faculty of Technical Sciences - Novi Sad	Electroenergetics

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

	ID	Course name	Study programme name, study type
1.	E126	System Control, Modeling and Simulation	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EE416	Relay Protection	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	ESI001	Software Tools in Power Engineering	(ES0) Power Software Engineering, Undergraduate Academic Studies
4.	ESI010	Basics of control in power systems	(ES0) Power Software Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	ESI016	Smart Grid Programming	(ES0) Power Software Engineering, Undergraduate Academic Studies
6.	DE206S	EPS Failure	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
7.	EE508	Microprocessor Protection	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
8.	EE0514	Computer Application in Power Systems 2	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
9.	DE206	PES Failures	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Strezoski V., Bekut D.: A Cannonical Model for the Study of Faults in Power Systems Naziv časopisa: IEEE Trans. on Power Systems , IEEE Trans. on Power Systems, 1991, Vol. 6, No 4, pp. 1493-1499
2.	Strezoski, V.C. Švenda, G.S. Bekut, D.D.: "Extension of the canonical model to grounding parts of power systems under fault conditions", INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, (2003) vol.25 br.7 str. 567-575
3.	Bekut, DD Švenda, GS Strezoski, VC: "Dead zone phenomenon in distance relaying of overhead transmission lines", ELECTRIC POWER SYSTEMS RESEARCH, (2000) vol.56 br.1 str. 1-8
4.	Strezoski V., Popović D., Bekut D., Švenda G.: DMS – Basis for Increasing of Green Distributed Generation Penetration in Distribution Networks, Thermal Science, 2012, Vol. 1, No 16, pp. 189-203, ISSN 0354-9836
5.	Nahman J., Bekut D.: Probabilistic interrupting current rating of transmission line circuit breakers Naziv časopisa: Electrical Power System Research , Electrical Power System Research, 1994, No 28, pp. 165-170
6.	Đukanović M., Bekut D., Šobajić D., pao Y.: Neural network based calculation of short-circuit currents in three-phase systems Naziv časopisa: Electrical Power System Research , Electrical Power System Research, 1992, No 24, pp. 49-53
7.	V.Strezoski, G.Svenda, D.Bekut: Extension of the Canonical Model Application for Calculation on Power Systems Under Fault Conditions, Electrical Power & Energy Systems, ELSEVIER, 2003,+ No.25, pp. 567-575, ISSN 0142-0615.,
8.	V.Strezoski, D.S.Popovic, D.Bekut, G.Svenda: DMS – Basis For Increasing Of The Penetration Of Green Distributed Generation In Distribution Networks, Thermal Science, Society of Thermal Engineers of Serbia, 2012, Vol. 1, No.16, pp. 189 – 203, ISSN: 0354-9836,
9.	Popović D., Boškov E., Bekut D., Stefani I.: Impact of distributed generators in Hybrid MV and LV distribution networks, 4. European PV-Hybrid and Mini-Grid Conference, Glyfada, 29-30 Maj, 2008, pp. 49-54, ISBN 978-3-934681-72-9
10.	Brbaklić B., Bizumić L., Bekut D.: Alat za automatizovano testiranje DMS softvera Naziv skupa: INFOTEH-JAHORINA , 7. Infoteh, Jahorina, 26-28 Mart, 2008, pp. 685-689, ISBN 99938-624-2-8

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

Quotation total :	17
Total of SCI(SSCI) list papers :	6

Current projects :	Domestic :	6	International :	14

Science, arts and professional qualifications

Name and last name:	Bogdanović Ž. Vesna
Academic title:	Senior Lecturer
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	15.12.1999
Scientific or art field:	English

Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	English
Magister thesis	2007	Faculty of Philosophy - Novi Sad	English
Bachelor's thesis	1999	Faculty of Philosophy - Novi Sad	English

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

	ID	Course name	Study programme name, study type
1.	AEJ1L	English Language - Elementary	(A00) Architecture, Undergraduate Academic Studies
2.	AEJ2L	English Language intermediate	(A00) Architecture, Undergraduate Academic Studies
3.	AEJ2Z	English intermediate	(A00) Architecture, Undergraduate Academic Studies
4.	AEJ3Z	English Language - upper intermediate	(A00) Architecture, Undergraduate Academic Studies
5.	EJ01L	English Language – Elementary	(G00) Civil Engineering, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
6.	EJ01Z	English Language - Elementary	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (F00) Graphic Engineering and Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
7.	EJ02L	English Language – Pre-Intermediate	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (F00) Graphic Engineering and Design, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies

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

	ID	Course name	Study programme name, study type
8.	EJ02Z	English Language – Pre-Intermediate	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
9.	EJ03Z	English Language - Intermediate	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
10.	EJ04L	English Language – Upper Intermediate	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
11.	EJ1Z	English Language - Elementary	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies
12.	EJ2L	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies

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

	ID	Course name	Study programme name, study type
13.	EJ2Z	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies
14.	EJ3L	English Language – Advanced	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
15.	EJE5	English Language – First Certificat 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
16.	EJE6	English Language - First Certificate 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
17.	EJEI	English Language for Engineers	(H00) Mechatronics, Undergraduate Academic Studies
18.	EJEI1	English in Engineering 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
19.	EJEI2	English in Engineering 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
20.	EJF5	English Language for GRID 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
21.	EJF6	English Language for GRID 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
22.	EJGR	English Language – ESP Course	(G00) Civil Engineering, Undergraduate Academic Studies
23.	EJM	English Language – ESP Course	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
24.	EJPST	English Language in Postal Traffic	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
25.	EJSIT	English Language in Traffic and Transport	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
26.	EJZ	English Language - Specialized	(Z20) Environmental Engineering, Undergraduate Academic Studies
27.	F320	English Language – ESP Course 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
28.	F321	English Language – ESP Course 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
29.	ISIT07	English Language 2	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
30.	ASI381	English language 1	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies

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

	ID	Course name	Study programme name, study type
31.	ASI431	English Language 2	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
32.	BMI80	English 1	(BM0) Biomedical Engineering, Undergraduate Academic Studies
33.	BMI81	English 2	(BM0) Biomedical Engineering, Undergraduate Academic Studies
34.	EJIIM	English for Specific Purposes	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
35.	EJ1Z	English Language - Elementary	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies
36.	EJ2Z	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies
37.	eja	English Language – a Specialized Course	(AH0) Architecture, Master Academic Studies
38.	EJE7	English Language - Advanced	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
39.	F507	English Language for GRID 3	(F00) Graphic Engineering and Design, Master Academic Studies
40.	NIT03	Business English	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Vesna Marković, English in Civil Engineering, FTN Izdavaštvo, Novi Sad, 2004.
2.	Vesna Bogdanović, Ivana Mirović, Engleski jezik za grafičko inženjerstvo i dizajn 1, FTN Izdavaštvo, Novi Sad, 2007.
3.	Ivana Mirović, Vesna Bogdanović, Engleski jezik 2 za grafičko inženjerstvo i dizajn, FTN Izdavaštvo, Novi Sad, 2008
4.	Vesna Marković, English in Civil Engineering, drugo izdanje, FTN Izdavaštvo, Novi Sad, 2008.
5.	University of Novi Sad, Faculty of Technical Sciences, prevele: Marina Katić, Vesna Marković, Ivana Mirović, Fakultet tehničkih nauka, Novi Sad, 2004.
6.	Mr Vesna Bogdanović, Pačvork romani Alis Voker i Toni Morison, Beograd: Zadužbina Andrejević, 2009, ISBN 978-86-7244-743-9
7.	Bogdanović Vesna, Mirović Ivana, Ličen Branislava, Kreiranje udžbenika za stručni engleski jezik za studente različitog predznanja, Zbornik radova međunarodne konferencije Jezik struke – teorija i praksa, DSJKS, Beograd, 2008: 445-454
8.	Mirović Ivana, Bogdanović Vesna, Ličen Branislava, Istorijat nastave stručnog engleskog jezika na FTN-u u Novom Sadu, Zbornik radova međunarodne konferencije Jezik struke – teorija i praksa, DSJKS, Beograd, 2008: 170-176

Representative refferences (minimum 5, not more than 10)	
9.	Bulatović Vesna, Gak Dragana, Bogdanović Vesna, Nastava stranih jezika na privatnom fakultetu, Zbornik radova međunarodne konferencije Jezik struke – teorija i praksa, DSJKS, Beograd, 2008: 329-332
10.	Gak Dragana, Bulatović Vesna, Bogdanović Vesna, Poređenje nastave engleskog jezika na privatnom i državnom fakultetu, Zbornik radova međunarodne konferencije Jezik struke – teorija i praksa, DSJKS, Beograd, 2008: 705-712

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	0			
Total of SCI(SSCI) list papers :	0			
Current projects :	Domestic :	0	International :	0

Science, arts and professional qualifications

Name and last name:	Čapko Lj. Darko
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	25.01.1999
Scientific or art field:	Automatic Control and System Engineering

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
PhD thesis	2012	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Magister thesis	2002	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Bachelor's thesis	1998	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering

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

	ID	Course name	Study programme name, study type
1.	E232	System Modeling and Simulation	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
2.	H213	System Modelling and Simulation 1	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies (H00) Mechatronics, Undergraduate Academic Studies
3.	BMI124	System Modeling and Simulation	(BM0) Biomedical Engineering, Undergraduate Academic Studies
4.	E2312	Software design for SCADA systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
5.	ESI013	Multi-tier applications development in power systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
6.	ESI020	Data structures and algorithms in power systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
7.	SEAU02	SCADA Software	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
8.	SEAU09	Software design of SCADA systems	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
9.	AU502	Distributed Control Systems	(E20) Computing and Control Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
10.	BMIM3D	Development of integrated biomedical systems	(BM0) Biomedical Engineering, Master Academic Studies
11.	E2533	Discrete event simulation	(E20) Computing and Control Engineering, Master Academic Studies
12.	E2535	Software Algorithms in Supervisory Control and Data Acquisition Systems	(E20) Computing and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies

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

	ID	Course name	Study programme name, study type
13.	ESI024	Applied algorithms in power systems	(ES0) Power Software Engineering, Master Academic Studies
14.	ESI034	Multi-tier applications development in Smart Grids	(ES0) Power Software Engineering, Master Academic Studies
15.	SEAM06	Integration of Distributed Control Systems	(SE0) Software Engineering and Information Technologies, Master Academic Studies
16.	DAU006	Selected Chapters in Modeling and Simulation of Dynamic Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies
17.	DAU018	Selected Chapters in Distributed Control Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies
18.	ZRD25A	Selected chapters from Artificial Ingeligence	(Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Vukmirović S., Erdeljan A., Čapko D., Lendak I., Nedić N., „Optimization of workflow scheduling in Utility Management System with hierarchical neural network“, International Journal of Computational Intelligence Systems., Vol. 4, No. 4, pp. 672-679, 2011., ISSN 1875-6891
2.	Vukmirović S., Erdeljan A., Lendak I., Čapko D., „A novel software architecture for Smart Metering systems“, Journal of Scientific and Industrial Research, Vol. 2010, No. 12, pp. 937-941, 2010., ISSN 0022-4456
3.	Čapko D., Erdeljan A., Vukmirović S., Lendak I., “A Hybrid Genetic Algorithm for Partitioning of Data Model in Distribution Management Systems”, Information technology and control, Vol. 40, No. 4, 2011., ISSN 1392-124X
4.	Čapko D., Erdeljan A., Popović M., Švenda G., “An Optimal Initial Partitioning of Large Data Model in Utility Management Systems”, Advances in Electrical and Computer Engineering, No. 4, 2011., ISSN 1582-7445
5.	Nedić N., Vukmirović S., Erdeljan A., Lendak I., Čapko D., „ A Genetic Algorithm Approach for Utility Management System Workflow Scheduling “, Information technology and control, Vol. 39, No. 4, pp. 310-316, 2010., ISSN 1392-124X
6.	Vukmirović S., Erdeljan A., Čapko D., Lendak I., „Extension of the Common Information Model with Virtual Meter“, Electronics and electrical engineering, Vol. 107, No. 1, pp. 59-64, 2011., ISSN 1392-1215
7.	Čapko D., Erdeljan A., Švenda G., Popović M., „Dynamic Repartitioning of Large Data Model in Distribution Management Systems“, Electronics and electrical engineering, Vol. 121, No. 4, pp. 83-85,2012., ISSN 1392-1215
8.	Vukmirović S., Erdeljan A., Lendak I., Čapko D., „Optimal Workflow Scheduling in Critical Infrastructure Systems with Neural Networks“, Journal of Applied Research and Technology, Vol. 10, No. 2, pp. 114-121, 2012., ISSN 1665-6423
9.	Vukmirovic, Srdjan; Erdeljan, Aleksandar; Lendak, Imre; Capko, Darko: Unifying the Common Information Model (CIM), REVUE ROUMAINE DES SCIENCES TECHNIQUES-SERIE ELECTROTECHNIQUE ET ENERGETIQUE 2012 57 (3):301-310
10.	Velimir Congradac, Marta Prica, Marija Paspalj, Dubravka Bojanic, Darko Capko: Algorithm for blinds control based on the optimization of blind tilt angle using a genetic algorithm and fuzzy logic,Solar Energy 86 (2012), pp 2762–2770

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

Quotation total :	0			
Total of SCI(SSCI) list papers :	10			
Current projects :	Domestic :	1	International :	0

Science, arts and professional qualifications

Name and last name:	Doroslovački D. Rade
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.10.1978
Scientific or art field:	Mathematics

Academic carieer	Year	Institution	Field
Academic title election:	2000	Faculty of Technical Sciences - Novi Sad	Mathematics
PhD thesis	1989	Faculty of Sciences - Novi Sad	Mathematical Sciences
Magister thesis	1984	Faculty of Sciences - Novi Sad	Mathematical Sciences
Bachelor's thesis	1976	Faculty of Sciences - Novi Sad	Mathematical Sciences

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

	ID	Course name	Study programme name, study type
1.	E213	Discrete Mathematics and Linear Algebra	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
2.	E101	Discrete Mathematics	(ES0) Power Software Engineering, Undergraduate Academic Studies
3.	E101A	Discrete Mathematics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	IM1523	Discrete Mathematics	(M30) Energy and Process Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
5.	IM1706	Actuerial Mathematics	(I20) Engineering Management, Undergraduate Academic Studies
6.	SE0009	Discrete Mathematics	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
7.	0M503	Combinatorics and Graph Theory	(OM1) Mathematics in Engineering, Master Academic Studies
8.	0M509	Applied Abstract Algebra	(OM1) Mathematics in Engineering, Master Academic Studies
9.	0M511	Geometry	(OM1) Mathematics in Engineering, Master Academic Studies
10.	0ML503	Combinatorics and Graph Theory	(OM1) Mathematics in Engineering, Master Academic Studies
11.	0ML509	Applaid Abstract Algebra	(OM1) Mathematics in Engineering, Master Academic Studies
12.	0ML511	Geometry	(OM1) Mathematics in Engineering, Master Academic Studies
13.	DZ01MS	Selected Chapters in Mathematics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies (I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies (Z00) Environmental Engineering, Specialised Academic Studies
14.	OM519	Actuerial Mathematics	(OM1) Mathematics in Engineering, Master Academic Studies
15.	OML519	Actuerial Mathematics	(OM1) Mathematics in Engineering, Master Academic Studies

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

	ID	Course name	Study programme name, study type
16.	D0M08	Applied Abstract Algebra	(OM1) Mathematics in Engineering, Doctoral Academic Studies
17.	D0M17	Combinatorics	(OM1) Mathematics in Engineering, Doctoral Academic Studies
18.	D0M20	Graph Theory	(OM1) Mathematics in Engineering, Doctoral Academic Studies
19.	D0M34	Actuarial Mathematics	(OM1) Mathematics in Engineering, Doctoral Academic Studies
20.	DOM31	Combinatorial Matrix Theory	(OM1) Mathematics in Engineering, Doctoral Academic Studies
21.	DZ01M	Selected Chapters in Mathematics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (GI0) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	R. Doroslovački, R. Tošić and I. Stojmenović: Generating and counting triangular system, BIT: 27(1987) 18-24, Kobenhavn, R 54
2.	R. Doroslovački , R . Tošić i J. Gutman: Topological properties of benzenoid systems, XXXVIII, the boundary code, Match in mathematical chemistry (19) (219-228) Max- Plank-Institut fur Stranhlenchemije, Mulheim (1986)
3.	Rade Doroslovački: Binary Sequences without 01...10, Matematički vesnik, Mathematical Society of Serbia, 46 (1994), 93-98.
4.	Rade Doroslovački: On binary n-words with forbidden 4-subwords, (1997/01) Novi Sad Juornal of Mathematics.
5.	R. Doroslovački, J. Pantović, G.Vojvodić: Note on Itersection of Maximal Clones, (1998/02) Novi Sad, Journal of Mathematics.
6.	R. Doroslovački, J. Pantović, G. Vojvodić: Classification of Maps by their Membership in Maximal Clones that contain Minimum and Complement, Matematički vesnik,, Mathematical Society of Serbia, 51, (1999), 21-28
7.	Rade Doroslovački, Jovanka Pantović and Gradimir Vojvodić: One Interval in the Lattice of Partial Hyperclones, Czechoslovaka Mathematical Journal, 55 (130),2005, 719-724, (R52)
8.	O. Bodroža-Pantić, R. Doroslovački, K. Doroslovački, AN ELEMENTARY PROOF OF A THEOREM CONCERNING THE DIVISION OF A REGION INTO TWO," in Rocky Mountain Journal of Mathematics, Vol. 37, No.5, 2007, R 52
9.	O. Bodroža-Pantić, R. Doroslovački, The Gutman formulas for algebraic structure count, Journal of Mathematical Chemistrz Vol.35,No.2, Februar 2004, R 51.
10.	Ratko Tošić, Gradimir Vojvodić, Dragan Mašulović, Rade Doroslovački, Jovanka Rosić: Two examples of relative completeness, Multiple Valued Logic, An International Journal (Journal of Multiple-Valued Logic and Soft Computing), (1996), Vol. 2, pp. 67-78.

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

Quotation total :	60			
Total of SCI(SSCI) list papers :	5			
Current projects :	Domestic :	0	International :	0

Science, arts and professional qualifications

Name and last name:	Đurić M. Nikola
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.10.1997
Scientific or art field:	Theoretical Electrotechnics

Academic carieer	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Theoretical Electrotechnics
PhD thesis	2009	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
Magister thesis	2003	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
Bachelor's thesis	1997	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering

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

	ID	Course name	Study programme name, study type
1.	E216	Fundamentals of Electrical Engineering	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies
2.	EE300	Electromagnetics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	H104	Fundamentals of Electrical Engineering 1	(H00) Mechatronics, Undergraduate Academic Studies
4.	H108	Fundamentals of Electrical Engineering 2	(H00) Mechatronics, Undergraduate Academic Studies
5.	M112	Electrical Engineering and Electric Machines	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
6.	E105	Fundamentals of Electrical Engineering 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
7.	E110	Fundamentals of Electrical Engineering 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
8.	BMI94	Fundamentals of Electrical Engineering	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	DE416S	Investigation of electromagnetic fields	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
10.	DE517S	Technology of magnetic and optical data storage	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
11.	EE543	Electro Magnetic Energy	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
12.	E1IEP	Investigation of electromagnetic fields	(MR0) Measurement and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
13.	H799	Fieldbuses and protocols	(H00) Mechatronics, Master Academic Studies
14.	H845	Motion control	(H00) Mechatronics, Master Academic Studies (I10) Industrial Engineering, Master Academic Studies
15.	DE416	Investigation of electromagnetic fields	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies

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

	ID	Course name	Study programme name, study type
16.	DE517	Technology of magnetic and optical data storage	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Đurić N., Despotović M. : Application of MTR soft-decision decoding in multiple-head magnetic recording systems, Sadhana - Academy Proceedings in Engineering Science, 2009, Vol. 34, Broj 3, str. 381-392, ISSN 0256-2499
2.	Đurić S., Nađ L., Damnjanović M., Đurić N., Živanov Lj.: A novel application of planar-type meander sensors, Microelectronics International, 2011, Vol. 28, No 1, pp. 41-49, ISSN 1356-5362
3.	Đurić N., Kavecan N.: Internet Portal of the SEMONT Information Network for the EM Field Monitoring, 4. International Conference on Advances in Future Internet - AFIN, Rim, 19-24 Avgust, 2012, pp. 55-59, ISBN 978-1-61208-211-0 (Best paper award)
4.	Đurić N., Kavečan N., Kljajić D.: The EM Field Register of the SEMONT Broadband Monitoring Network, 10. SISY - International Symposium on Intelligent systems and Informatics, Subotica, 20-22 Septembar, 2012, pp. 27-30, ISBN 978-1-4673-4748-8
5.	Đurić N., Šenk V.: The MAP Implementation in Logic Circuits for Soft-decision Decoding of MTR Codes, 6. European Modeling Symposium - EMS, Malta, 14-16 Novembar, 2012, pp. 201-206, ISBN 978-0-7695-4926-2/12
6.	Đurić N., Prša M., Kasaš-Lažetić K.: Information Network for Continuous Electromagnetic Fields Monitoring, International Journal of Emerging Sciences - IJES, 2011, Vol. 1, No 4, pp. 516-525, ISSN 2222-4254
7.	Vukobratović B., Đurić N.: Monitoring of EMF with SEMONT system, 6. International PhD Seminar on Computational electromagnetics and bioeffects of electromagnetic fields – CEMBEF, Novi Sad, 28-30 Jun, 2012, pp. 63-66, ISBN 978-86-7892-410-1
8.	Bajović V., Đurić N., Herceg D.: Serbian Laws and Regulations as Foundation for Electromagnetic Field Monitoring Information Network, 10. International Conference on Applied Electromagnetics, Niš, 25-29 Septembar, 2011, ISBN ISBN: 978-86-6125-04
9.	Đurić N., Prša M., Kasaš-Lažetić K., Bajović V.: Serbian Remote Monitoring System for Electromagnetic Environmental Pollution, 10. International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Services - TELSIKS, Niš, 5-8 Oktobar, 2011, pp. 701-704, ISBN 978-1-4577-2016-1
10.	Đurić N., Šenk V., Vasić B.: MAP Decoding of MTR Codes in Multiple-Head Magnetic Recording Systems, 10. International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Services - TELSIKS, Niš, 5-8 Oktobar, 2011, pp. 164-167, ISBN 978-1-4577-2018-5

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

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

Science, arts and professional qualifications

Name and last name:	Erdeljan M. Aleksandar
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	24.07.1989
Scientific or art field:	Automatic Control and System Engineering

Academic carieer	Year	Institution	Field
Academic title election:	2011		Automatic Control and System Engineering
PhD thesis	2000	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Magister thesis	1993	School of Electrical Engineering - Beograd	Automatic Control and System Engineering
Bachelor's thesis	1989	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering

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

	ID	Course name	Study programme name, study type
1.	E126	System Control, Modeling and Simulation	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E232	System Modeling and Simulation	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
3.	GI303A	Distributed Systems in Geomatics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	H213	System Modelling and Simulation 1	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies (H00) Mechatronics, Undergraduate Academic Studies
5.	BMI124	System Modeling and Simulation	(BM0) Biomedical Engineering, Undergraduate Academic Studies
6.	E2312	Software design for SCADA systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
7.	ESI001	Software Tools in Power Engineering	(ES0) Power Software Engineering, Undergraduate Academic Studies
8.	ESI010	Basics of control in power systems	(ES0) Power Software Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	ESI015	Distributed Computer Systems in Power Systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
10.	SEAU02	SCADA Software	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
11.	SEAU09	Software design of SCADA systems	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
12.	SEI002	Architecture of Distributed Systems in Power Systems	(ES0) Power Software Engineering, Undergraduate Academic Studies

Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES — Power Software Engineering

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

	ID	Course name	Study programme name, study type
13.	AU502	Distributed Control Systems	(E20) Computing and Control Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
14.	H301	System Modeling and Symulation	(H00) Mechatronics, Master Academic Studies
15.	S054	Computer Modelling and Simulation	(S01) Postal Traffic and Telecommunications, Master Academic Studies
16.	BMIM3D	Development of integrated biomedical systems	(BM0) Biomedical Engineering, Master Academic Studies
17.	E2532	Automatic Control Systems Project Management	(E20) Computing and Control Engineering, Master Academic Studies
18.	E2533	Discrete event simulation	(E20) Computing and Control Engineering, Master Academic Studies
19.	E2535	Software Algorithms in Supervisory Control and Data Acquisition Systems	(E20) Computing and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
20.	ESI030	Distributed Software Architectures for Smart Energy Grids	(ES0) Power Software Engineering, Master Academic Studies
21.	SEAM06	Integration of Distributed Control Systems	(SE0) Software Engineering and Information Technologies, Master Academic Studies
22.	DAU006	Selected Chapters in Modeling and Simulation of Dynamic Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies
23.	DAU018	Selected Chapters in Distributed Control Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies
24.	ZRD25A	Selected chapters from Artificial Ingeligence	(Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Lendak I., Erdeljan A., Popović D.: Algorithm for cataloguing topologies in the Common Information Model (CIM), Computers Math. Appl. 61, No. 3, 715-721 (2011). ISSN 0898-1221
2. Vukmirović S., Erdeljan A., Čapko D., Lendak I., Nedić N.: Optimization of workflow scheduling in Utility Management System with hierarchical neural network, International Journal of Computational Intelligence Systems, 2011, Vol. 4, No 4, pp. 672-679, ISSN 1875-6883
3. Čapko D., Erdeljan A., Švenda G., Popović M.: Dynamic Repartitioning of Large Data Model in Distribution Management Systems, Electronics and electrical engineering, 2012, No 4(120), pp. 83-88, ISSN 1392-1215
4. Ilić S., Vukmirović S., Erdeljan A., Kulić F.: Hybrid Artificial Neural Network System for Short-Term Load Forecasting, Thermal Science, 2012, Vol. 16, No S, pp. 215-224, ISSN 0354-9836
5. Vukmirović S., Erdeljan A., Čapko D., Lendak I.: Extension of the Common Information Model with Virtual Meter, Electronics and electrical engineering, 2011, Vol. 107, No 1, pp. 59-64, ISSN 1392-1215
6. Čapko D., Erdeljan A., Popović M., Švenda G.: An Optimal Initial Partitioning of Large Datasets in Utility Management Systems, Journal of Advances in Electrical and Computer Engineering, 2011, Vol. 11, No 4, pp. 41-46, ISSN 1582-7445
7. Čapko D., Erdeljan A., Vukmirović S., Lendak I.: A HYBRID GENETIC ALGORITHM FOR PARTITIONING OF DATA MODEL IN DISTRIBUTION MANAGEMENT SYSTEMS, Information technology and control, 2011, Vol. 40, No 4, pp. 316-322, ISSN 1392-124X
8. Vukmirović S., Nedić N., Erdeljan A., Lendak I., Čapko D.: A Genetic Algorithm Approach for Utility Management System Workflow Scheduling, Information technology and control, 2010, Vol. 39, No 4, pp. 310-316, ISSN 1392-124X
9. Vukmirović S., Erdeljan A., Lendak I., Čapko D.: A novel software architecture for Smart Metering systems, Journal of Scientific and Industrial Research (JSIR), 2010, Vol. 2010, No 12, pp. 937-941, ISSN 0022-4456
10. Čapko D., Erdeljan A., Popović M., Švenda G.: An Optimal Relationship-Based Partitioning of Large Datasets, LNCS, Springer Verlag, 2010, str. 555-558, ISBN 978-3-642-15575-8

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

Quotation total :	1			
Total of SCI(SSCI) list papers :	9			
Current projects :	Domestic :	3	International :	0

Science, arts and professional qualifications

Name and last name:	Gak M. Dragana
Academic title:	Lecturer
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	16.09.2009
Scientific or art field:	English

Academic carieer	Year	Institution	Field
Academic title election:	2008	Faculty of Entrepreneurial Management - Novi Sad	English
Magister thesis	2010	Faculty of Philosophy - Novi Sad	English and American Literature
Bachelor's thesis	2000	Faculty of Philosophy - Novi Sad	English

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

	ID	Course name	Study programme name, study type
1.	AEJ1L	English Language - Elementary	(A00) Architecture, Undergraduate Academic Studies
2.	AEJ2L	English Language intermediate	(A00) Architecture, Undergraduate Academic Studies
3.	AEJ2Z	English intermediate	(A00) Architecture, Undergraduate Academic Studies
4.	AEJ3Z	English Language - upper intermediate	(A00) Architecture, Undergraduate Academic Studies
5.	EJ01L	English Language – Elementary	(G00) Civil Engineering, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
6.	EJ01Z	English Language - Elementary	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (F00) Graphic Engineering and Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
7.	EJ02L	English Language – Pre-Intermediate	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (F00) Graphic Engineering and Design, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies

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

	ID	Course name	Study programme name, study type
8.	EJ02Z	English Language – Pre-Intermediate	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
9.	EJ03Z	English Language - Intermediate	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
10.	EJ04L	English Language – Upper Intermediate	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
11.	EJ1Z	English Language - Elementary	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies
12.	EJ2L	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies

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

	ID	Course name	Study programme name, study type
13.	EJ2Z	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies
14.	EJ3L	English Language – Advanced	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
15.	EJE5	English Language – First Certificat 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
16.	EJE6	English Language - First Certificate 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
17.	EJEI	English Language for Engineers	(H00) Mechatronics, Undergraduate Academic Studies
18.	EJEI1	English in Engineering 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
19.	EJEI2	English in Engineering 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
20.	EJF5	English Language for GRID 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
21.	EJF6	English Language for GRID 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
22.	EJGR	English Language – ESP Course	(G00) Civil Engineering, Undergraduate Academic Studies
23.	EJM	English Language – ESP Course	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
24.	EJPST	English Language in Postal Traffic	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
25.	EJSIT	English Language in Traffic and Transport	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
26.	F320	English Language – ESP Course 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
27.	F321	English Language – ESP Course 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
28.	ISIT01	English Language 1	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
29.	ISIT07	English Language 2	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
30.	ASI381	English language 1	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies

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

	ID	Course name	Study programme name, study type
31.	ASI431	English Language 2	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
32.	BMI80	English 1	(BM0) Biomedical Engineering, Undergraduate Academic Studies
33.	BMI81	English 2	(BM0) Biomedical Engineering, Undergraduate Academic Studies
34.	EJIIM	English for Specific Purposes	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
35.	EJ1Z	English Language - Elementary	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies
36.	EJ2Z	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies
37.	eja	English Language – a Specialized Course	(AH0) Architecture, Master Academic Studies
38.	EJE7	English Language - Advanced	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
39.	F507	English Language for GRID 3	(F00) Graphic Engineering and Design, Master Academic Studies
40.	NIT03	Business English	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Gak Dragana, Lorejn Hansberi i (afro) američka porodica, Zadužbina Andrejević, Beograd, 2012
2. Gak Dragana, Bulatović Vesna, Bogdanović Vesna, Poređenje nastave engleskog jezika na privatnom i državnom fakultetu, Zbornik radova sa međunarodne konferencije Jezik struke: Teorija i praksa, Univerzitet u Beogradu, str. 705-709, Beograd, 2009.
3. Bulatović Vesna, Gak Dragana, Bogdanović Vesna, Nastava stranih jezika na privatnom fakultetu, Zbornik radova sa međunarodne konferencije Jezik struke: Teorija i praksa, Univerzitet u Beogradu, str.329-333, Beograd, 2009.
4. Bogdanović Vesna, Gak Dragana, Univerzalana simbolika na primeru afro-američke zajednice u drami Lorejn Hansberi, Sveske, broj 98, decembar , Pančevo, 2010
5. Gak Dragana, Borković Bojana, Needs Analysis: A Basis of a Successful Business English Course, Zbornik radova sa međunarodne konferencije Jezik struke: Izazovi i perspektive, Univerzitet u Beogradu, str. 880-885, Beograd, 2011.
6. Bulatović Vesna, Gak Dragana, Speaking Skills: Advantages and Problems Involved When Teaching Business English, Zbornik radova sa međunarodne konferencije Jezik struke: Izazovi i perspektive, Univerzitet u Beogradu, str. 235-240, Beograd, 2011.
7. Gak Dragana, Textbook - An Important Element in the Teaching Process, Metodički vidici, Filozofski fakultet Novi Sad, str.78-82, Novi Sad, 2011.

Representative refferences (minimum 5, not more than 10)	
8.	Gak Dragana, Questionnaire - an Instrument for Collecting Valuable Data from Teachers of Business English Courses, Zbornik radova sa međunarodne konferencije The Importance of Learning Professional Foreign Language for Communication Between Cultures, Faculty of Logistics, University of Maribor, Slovenia, 2012
9.	Mirović Ivana, Gak Dragana, Trust Me I'm an Engineer, Zbornik radova sa međunarodne konferencije The Importance of Learning Professional Foreign Language for Communication Between Cultures, Faculty of Logistics, University of Maribor, Slovenia, 2012.

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

Science, arts and professional qualifications

Name and last name:	Gavrić M. Milan
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.11.2012
Scientific or art field:	Informatics

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Informatics
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Unknown
Magister thesis	1998	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Bachelor's thesis	1994	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering

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

	ID	Course name	Study programme name, study type
1.	ESI001	Software Tools in Power Engineering	(ES0) Power Software Engineering, Undergraduate Academic Studies
2.	ESI003	Electric power software development	(ES0) Power Software Engineering, Undergraduate Academic Studies
3.	ESI004	Cloud Computing in power systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
4.	ESI012	Smart Grid Networks	(ES0) Power Software Engineering, Undergraduate Academic Studies
5.	ESI016	Smart Grid Programming	(ES0) Power Software Engineering, Undergraduate Academic Studies
6.	ESI023	Standards and Modeling in power systems	(ES0) Power Software Engineering, Master Academic Studies
7.	ESI027	Advanced cloud computing in power systems	(ES0) Power Software Engineering, Master Academic Studies
8.	ESI029	Simulation of power grid critical mission systems	(ES0) Power Software Engineering, Master Academic Studies
9.	ESI031	Business Intelligence and Data Warehouse Systems in Power Systems	(ES0) Power Software Engineering, Master Academic Studies
10.	ESI032	Smart grid applications in Cloud	(ES0) Power Software Engineering, Master Academic Studies
11.	ESI036	Visualization techniques in power systems	(ES0) Power Software Engineering, Master Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Gavric M, Martinov M, Bojic S, Djatkov Dj, Pavlovic M. 2011. Short- and long-term dynamic accuracies determination of satellite-based positioning devices using a specially designed testing facility. Computers and Electronics in Agriculture 76: 297–305.
2.	Gavrić, M, Martinov, M. 2007. Low Cost GPS-Based System for Site-Specific Farming at Flat Terrains – Case Study. Agricultural Engineering International, CIGR e-journal, 9: Manuscript ATOE 07 004.
3.	Martinov, M., Gavrić, M., Kiš, F., Brunet, B. and G. Mickovic. 2009. Applicability of GPS guidance in South-East European agriculture. 37. International Symposium Agricultural Engineering: Actual Tasks on Agricultural Engineering, Opatija, 10-13 February 2009, Book of Proc: 201-212.
4.	Varga, E., Lendak, I., Gavric, M., Erdeljan, A. 2011. Applicability of RESTful web services in control center software integrations. International Conference on Innovations in Information Technology – IIT. 282 – 286.
5.	Lendak, I., Varga, E., Erdeljan, A., Gavric, M. 2010. RESTful web services and the Common Information Model (CIM). Energy Conference and Exhibition (EnergyCon), 2010 IEEE International. 716-721.
6.	Lendak, I., Varga, E., Erdeljan, A., Gavric, M. 2010. RESTful access to power system state variables, IEEE Region 8 International Conference on Computational Technologies in Electrical and Electronics Engineering - SIBIRCON.
7.	Sekulić, P., Gavrić, M., Martinov, M. and M. Konstantinović. 2004. GIS and GPS for Sustainable Agriculture and Traceability – Case Study Vojvodina. Second Conference of AESEE “Energy Efficiency and Agricultural Engineering, Rousse, Bulgaria, Book of Proceedings, 362-368.
8.	Gavrić, M. i M. Martinov. 2006. Postupci i tačnost primene GPS u poljoprivredi. Savremena poljoprivredna tehnika, 32(1-2): 96-102.
9.	Gavrić, M., Sekulić, P.Đ. (2004) Primena GIS-a i GPS-a u poljoprivredi. Zbornik radova Instituta za ratarstvo i povrtarstvo, br. 40, str. 171-178
10.	Gavrić M., Sekulić P. 2003. Information System on Soil Protection. International Congress on Information Technology in Agriculture, Food and Environment, 07-10. October 2003, Izmir, Turkey, Proceedings 75-79.

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

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

Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES — Power Software Engineering

Science, arts and professional qualifications

Name and last name:	Gušavac J. Strahil
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.10.1992
Scientific or art field:	Electroenergetics

Academic carieer	Year	Institution	Field
Academic title election:	2011	Faculty of Technical Sciences - Novi Sad	Electroenergetics
PhD thesis	2011	School of Electrical Engineering - Beograd	Electroenergetics
Magister thesis	1999	School of Electrical Engineering - Beograd	Electroenergetics
Bachelor's thesis	1988	Faculty of Technical Sciences - Novi Sad	Electroenergetics

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

	ID	Course name	Study programme name, study type
1.	EE305	Power Electronics 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EE407	Electrical Installations and Industrial Power Engineering	(ES0) Power Software Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	EE425	Energy Converter Control	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	EOS08	Electrical machines and devices	(E01) Power Engineering - Renewble Sources of Electrical Energy, Undergraduate Professional Studies
5.	S0I51Ž	Electrical Substation and Electric Traction	(S00) Traffic and Transport Engineering, Master Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Tehnička analiza eksploatacione pouzdanosti elektroenergetskih posteojenja industrije cementa
2.	Razvoj metodologije za efikasno održavanje nadzemnih vodova uz uvažavanje pouzdanosti
3.	S. Gušavac, M. Nimrihter, Lj. Gerić : Estimation of overhead line condition, Electric Power Systems Research 78 (2008) 566–583., ISSN 0378-7796.
4.	Lj. Gerić, S. Gušavac : Analysis of Electric Power Consumption and Possibilities of Load Management in the Cement Factory of Beočin, Monograph : Contemporary Problems in Power Engineering, Edited by D. Gvozdenac, J. Xypteras and M. Dimić, Faculty of Tehnical Sciences - Novi Sad (Yugoslavia) and Aristotel University - Thessaloniki (Greece), 1995., pp. 133-141. ISSN 0354-8449, 621.3(082).
5.	Lj. Gerić, P. Đapić, S. Gušavac : Direct Load Control in Residential Sector of Electrical Power System, Monograph : Contemporary Problems in Power Engineering, Edited by D. Gvozdenac, J. Xypteras and M. Dimić, Faculty of Tehnical Sciences - Novi Sad (Yugoslavia) and Aristotel University - Thessaloniki (Greece), 1995., pp. 237-250. . ISSN 0354-8449, 621.3(082).
6.	S. Gušavac,S. Đukić, J. Lukić i Lj. Krička : Ocena stanja temelja i stubova nadzemnog voda, , Elektroprivreda, broj 1, 2008, ISSN 0013-5755, UDC 620.9, Beograd, strane 82-95, UDK: 624.153.542.2, 621.315
7.	Lj. Gerić, P. Đapić, S. Gušavac, M. Nimrihter : Direktna kontrola opterećenja u konzumu široke potrošenje, Monografija “Savremeni aspekti elektroenergetike”, uredio V. Katić, Fakultet tehničkih nauka - Institut za energetiku i elektroniku, Novi Sad, 1995, str. 67-85., 621.31(082)
8.	S. Gušavac, M. Nimrihter, Ž. Savanović, D. Melović,: Sophisticated Estimation of Damages Due to Outage Costs in Industry, by Method of Tehnological Process Simulation, 2003 IEEE Bologna Power Tech Conference, June 23th-26th, Bologna, Italy, paper 399.
9.	S. Gušavac, M. Nimrihter, S. Novaković, Ž. Savanović: Overhead Lines Maintenance Information System, Colloquium on Overhead Lines Revitalization, Beograd, May 06-10,2003, paper R3-01. ISBN 86-82317-46-X, 621.316.1(082)

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

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

Science, arts and professional qualifications

Name and last name:	Hajduković P. Miroslav
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.07.1993
Scientific or art field:	Applied Computer Science and Informatics

Academic carieer	Year	Institution	Field
Academic title election:	1998	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	1984	Faculty of Electrical Engineering - Sarajevo	Applied Computer Science and Informatics
Magister thesis	1980	Faculty of Electrical Engineering - Sarajevo	Applied Computer Science and Informatics
Bachelor's thesis	1977	Faculty of Electrical Engineering - Sarajevo	Applied Computer Science and Informatics

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

	ID	Course name	Study programme name, study type
1.	E217	Computer Architecture	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies
2.	E225	Operating Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies
3.	E243	Human Computer Interaction	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
4.	EE301	Operating Systems and Competitive Programming	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	RI4A	Computer Graphics	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
6.	E2529	Parallel and distributed architectures	(E20) Computing and Control Engineering, Master Academic Studies (ES0) Power Software Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
7.	DAU014	Selected Topics in Computing	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
8.	DRNI18	Selected Topics in Distributed/Mobile computing	(E20) Computing and Control Engineering, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Hajduković M., “Programski jezik CONCERT”, Pomoćni udžbenik, Fakultet tehničkih nauka, 1995.

Representative refferences (minimum 5, not more than 10)

2.	Hajduković M., “Organizacija računara”, Pomoćni udžbenik, Fakultet tehničkih nauka, 1996.
3.	Hajduković M., Suvajdžin Z., “Uvod u međunarodni standard IEC 61131-3”, Pomoćni udžbenik, Fakultet tehničkih nauka, 2002.
4.	Hajduković M., “Operativni sistemi”, Osnovni udžbenik, Fakultet tehničkih nauka, 2004.
5.	Hajduković M., “Arhitektura računara”, Osnovni udžbenik, Fakultet tehničkih nauka, 2004.
6.	Hajduković M. i ostali, “The active side principle approach to the client server protocol design”, YUJOR, vol. 6, no. 1, Belgrade, 1996., 121- 127
7.	Hajduković M. i ostali, “Uninterruptable and other regions”, YUJOR, vol. 8, no. 2, Belgrade, 1998., 323- 329
8.	Hajduković M. i ostali, “Communication models: an educational framework for parallel programming”, YUJOR, vol. 9, no. 1, Belgrade, 1999., 129- 139
9.	Hajduković M. između ostalih, “Character oriented program editing – habit or necessity?”, NSJOM, vol. 33, no. 1, Novi Sad, 2003., 53- 65
10.	Hajduković M. između ostalih, “A problem of program execution time measurement”, NSJOM, vol. 33, no. 1, Novi Sad, 2003., 67-73

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

Quotation total :	11			
Total of SCI(SSCI) list papers :	3			
Current projects :	Domestic :	1	International :	0

Science, arts and professional qualifications

Name and last name:	Ivetić V. Dragan
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	22.10.1990
Scientific or art field:	Applied Computer Science and Informatics

Academic carieer	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	1999	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Magister thesis	1994	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Bachelor's thesis	1990	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics

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

	ID	Course name	Study programme name, study type
1.	E243	Human Computer Interaction	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
2.	H207	Programming and Programming Languages	(F10) Engineering Animation, Undergraduate Academic Studies (H00) Mechatronics, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
3.	RI4A	Computer Graphics	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
4.	E0243	Human-Computer Interaction	(ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies
5.	E2505	Multimedia Systems	(E20) Computing and Control Engineering, Master Academic Studies (ES0) Power Software Engineering, Master Academic Studies (F20) Engineering Animation, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
6.	E2516	Virtual Reality Systems	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
7.	E2528	Computer game development	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
8.	E2534	Data Compression	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies

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

	ID	Course name	Study programme name, study type
9.	ESI035	Computer graphic algorithms for smart grid systems	(ES0) Power Software Engineering, Master Academic Studies
10.	ESI036	Visualization techniques in power systems	(ES0) Power Software Engineering, Master Academic Studies
11.	DRNI09	Selected Topics in Human Centered Computing	(E20) Computing and Control Engineering, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies
12.	FDS151	Selected Chapters in Multimedia	(F00) Graphic Engineering and Design, Doctoral Academic Studies
13.	FDS152	Selected Topics in Computer Graphics	(F00) Graphic Engineering and Design, Doctoral Academic Studies
14.	DRNI15	Selected Topics in Advanced Computer Graphics	(E20) Computing and Control Engineering, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies
15.	DRNI18	Selected Topics in Distributed/Mobile computing	(E20) Computing and Control Engineering, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Dinu Dragan, Dragan Ivetic, "Request Redirection Paradigm in Medical Image Archive Implementation", Computer methods and programs in biomedicine, Elsevier, Vol. 107, No. 2, p.111-121, ISSN 0169-2607, Aug 2012
2.	Dragan Ivetic, Dinu Dragan, "Medical Image on the go!", Journal of Medical Systems, Springer, Vol. 35, No. 4, pp. 499-516, ISSN 0148-5598, August 2011.
3.	Dragan Ivetic, Srdjan Mihic, Branko Markoski, "Augmented AVI video file for road surveying", Computers and Electrical Engineering, Elsevier, Vol. 36, No. 1, pp. 169-179, ISSN 0045-7906, January 2010.
4.	Dinu Dragan, Dragan Ivetic, "Architectures of DICOM based PACS for JPEG2000 Medical Image Streaming", Computer Science and Information Systems Journal (ComSIS), vol. 6(1), ISSN: 1820-0214, pp. 185-203, ComSIS Consortium, Serbia, June 2009.
5.	Dragan Ivetic, Dusan Malbaski, "A dichotomous software life-cycle model", Journal of Applied Systems Studies, Nikitas. A. Assimakopoulos, Ed., Cambridge International Science Publishing, Cambridge, England, vol. 2, No. 2, 2001
6.	Dinu Dragan, Dragan Iveti, "A Comprehensive Quality Evaluation System for PACS", Ubiquitous Computing and Communication Journal, Special Issue on ICIT 2009 Conference - Bioinformatics and Image, Vol. 4(3), ISSN: 1992-8424, pp. 642-650, UBICC Publisher, July 2009.
7.	Veljko Petrovic, Dragan Ivetic, "Education and out of the box thinking – linearization of Graham's scan algorithm complexity as fruit of education policy", Ubiquitous Computing and Communications Journal, Special Issue on ICIT 2011 conference, ISSN: 1992-8424, pp. 43-51, UBICC Publisher, 2011.
8.	Dusan Malbaski, Dragan Ivetic, "Some notes on the formal definition of streams", Byron Papathanassiou, Ed., Yugoslav Journal of Operations Research, vol. 6, no. 2, 1996., 277-284.
9.	Ivetic Dragan, Dinu Dragan, "JPEG2000 Aims To Make Medical Image Ubiquitous", Egyptian Computer Science Journal, Vol. 31, No. 5, pp. 1-13, ISSN 1110-2586, Sept. 2009.
10.	Dragan D., Ivetić D.: Chapter 28: Tools for Ubiquitous PACS System, in "Proceedings of the International Conference on Human-centric Computing 2011 and Embedded Multimedia Computing 2011", Lecture Notes in Electrical Engineering, J.J. Park et al. (eds.), Berlin, Springer, 2011, str. 297-308, ISBN 978-94-007-2104-3

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

Quotation total :	55			
Total of SCI(SSCI) list papers :	4			
Current projects :	Domestic :	2	International :	0

Science, arts and professional qualifications

Name and last name:	Katić M. Marina
Academic title:	Lecturer
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.10.2001
Scientific or art field:	English

Academic carieer	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	English
Master's thesis	2009	Faculty of Philology - Beograd	English
Magister thesis	2006	Faculty of Philology - Beograd	Engineering Management
Bachelor's thesis	1987	Faculty of Philosophy - Novi Sad	English

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

	ID	Course name	Study programme name, study type
1.	AEJ1L	English Language - Elementary	(A00) Architecture, Undergraduate Academic Studies
2.	AEJ2L	English Language intermediate	(A00) Architecture, Undergraduate Academic Studies
3.	AEJ2Z	English intermediate	(A00) Architecture, Undergraduate Academic Studies
4.	AEJ3Z	English Language - upper intermediate	(A00) Architecture, Undergraduate Academic Studies
5.	EJ01L	English Language – Elementary	(G00) Civil Engineering, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
6.	EJ01Z	English Language - Elementary	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (F00) Graphic Engineering and Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies

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

	ID	Course name	Study programme name, study type
7.	EJ02L	English Language – Pre-Intermediate	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (F00) Graphic Engineering and Design, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
8.	EJ02Z	English Language – Pre-Intermediate	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
9.	EJ03Z	English Language - Intermediate	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
10.	EJ04L	English Language – Upper Intermediate	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
11.	EJ1Z	English Language - Elementary	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies

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

	ID	Course name	Study programme name, study type
12.	EJ2L	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
13.	EJ2Z	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies
14.	EJ3L	English Language – Advanced	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
15.	EJE5	English Language – First Certificat 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
16.	EJE6	English Language - First Certificate 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
17.	EJEI	English Language for Engineers	(H00) Mechatronics, Undergraduate Academic Studies
18.	EJEI1	English in Engineering 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
19.	EJEI2	English in Engineering 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
20.	EJF5	English Language for GRID 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
21.	EJF6	English Language for GRID 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
22.	EJGR	English Language – ESP Course	(G00) Civil Engineering, Undergraduate Academic Studies
23.	EJM	English Language – ESP Course	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
24.	EJPST	English Language in Postal Traffic	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
25.	EJSIT	English Language in Traffic and Transport	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies

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

	ID	Course name	Study programme name, study type
26.	EJZ	English Language - Specialized	(Z20) Environmental Engineering, Undergraduate Academic Studies
27.	F320	English Language – ESP Course 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
28.	F321	English Language – ESP Course 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
29.	ISIT01	English Language 1	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
30.	ASI381	English language 1	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
31.	ASI431	English Language 2	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
32.	BMI80	English 1	(BM0) Biomedical Engineering, Undergraduate Academic Studies
33.	BMI81	English 2	(BM0) Biomedical Engineering, Undergraduate Academic Studies
34.	EJIIM	English for Specific Purposes	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
35.	ETI10	English Language-Lower	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
36.	SSIP21	English Language	(E01) Power Engineering - Renewble Sources of Electrical Energy, Undergraduate Professional Studies
37.	EJ1Z	English Language - Elementary	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies
38.	EJ2Z	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies
39.	eja	English Language – a Specialized Course	(AH0) Architecture, Master Academic Studies
40.	EJE7	English Language - Advanced	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
41.	F507	English Language for GRID 3	(F00) Graphic Engineering and Design, Master Academic Studies
42.	NIT03	Business English	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies

Representative refferences (minimum 5, not more than 10)

Representative refferences (minimum 5, not more than 10)	
1.	Marina Katić, Kostadin Pušara, “Standardization of E-Commerce Terminology“, Annals of the Faculty of Engineering Hunedoara, Vol.III, Part 2, 2005, ISSN 1584-2665, Edition Mirton, Timisoara (Romania), pp.31-36.
2.	M.Katić, “O tehnikama prevođenja nekih engleskih termina energetske elektronike”, 11th International Symposium on Power Electronics – Ee 2001, Novi Sad, Oct.-Nov.2001, pp.154-157.
3.	M.Katić, “Terminology of E-Commerce”, 7th International Symposium on Interdisciplinary Regional Research – ISIRR 2003, Hunedoara (Romania), Sept. 2003, CD-ROM – Paper 0104.
4.	M.Katić, “Key Terms of Business Environment”, PSU-UNS Int. Conference Energy and Environment, Hat Yai (Thailand), Dec. 2003, .
5.	Marina Katić, Kostadin Pušara, “Need for E-Commerce Term Standardization and Harmonization”, Western Business & Management Conference 2004, Las Vegas (USA), Oct.2004, CD ROM.
6.	Marina Katić, Kostadin Pušara, “Standardization of E-Commerce Terminology“, VIII International Symposium on Interdisciplinary Regional Research - ISSIR 2005, Szeged (Hungary), 19-21. 04. 2005., University of Szeged, CD ROM.
7.	M.Katić, “Deregulacija u elektroprivredi sa aspekta tumačenja i prevođenja engleskih termina na srpski jezik”, III Jugoslovensko savetovanje o elektrodistributivnim mrežama, JUKO-CIRED, Vrnjačka Banja, Okt. 2002, Sveska 4, P-7.04, pp.153-158, (knjiga i CD ROM).
8.	M.Katić, “Engleski jezik u službi međunarodnog menadžmenta“, XII međunarodna konferencija Industrijski sistemi – IS 2002, Vrnjačka Banja, Nov. 2002, pp.146-151
9.	M.Katić, “Anglicizmi u jeziku tehnike”, XLVII Konferencija ETRAN, Herceg Novi, Jun 2003, CD-ROM i knjiga, Sveska 3, pp. 241-244.
10.	M.Katić, K.Pušara, „Zašto je potrebna standardizacija termina elektronske trgovine“, XLIX Konferencija za ETRAN, Budva, 05.-10. 06. 2005., Zbornik radova, CD-ROM i knjiga, Sveska 3, pp.238-241.

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	0			
Total of SCI(SSCI) list papers :	0			
Current projects :	Domestic :	0	International :	0

Science, arts and professional qualifications

Name and last name:	Katić A. Nenad
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	-
Scientific or art field:	Electroenergetics

Academic carieer	Year	Institution	Field
Academic title election:	2008	Faculty of Technical Sciences - Novi Sad	Electroenergetics
PhD thesis	2002	Faculty of Technical Sciences - Novi Sad	Electroenergetics
Magister thesis	1991	School of Electrical Engineering - Beograd	Electroenergetics
Bachelor's thesis	1982	Faculty of Technical Sciences - Novi Sad	Electroenergetics

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

	ID	Course name	Study programme name, study type
1.	EOS35	Tržište električne energije	(E01) Power Engineering - Renewble Sources of Electrical Energy, Undergraduate Professional Studies
2.	EE0406	Electric Power Quality	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	ESI006	Introduction to critical mission software for power grids	(ES0) Power Software Engineering, Undergraduate Academic Studies
4.	ESI012	Smart Grid Networks	(ES0) Power Software Engineering, Undergraduate Academic Studies
5.	EZ301	Cost-effective and energy-efficient electrical systems	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
6.	DE107S	Decision-Making Optimization	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
7.	DE312S	Power Market and Regulation	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
8.	DE405S	Smart Grid Networks	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
9.	DE406S	Electric Power Industry in the Free Market Economy	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
10.	DE508S	Power System Economics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
11.	EE406	Electric Power Quality	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
12.	EE509	Market and Deregulation in Electric Power Industry	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
13.	EE510	Economic Methods in Electric Power Industry	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
14.	EE544	Renewable energy sources	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
15.	ZCM02	Clean technologies for electrical vehicles	(ZC0) Clean Energy Technologies, Master Academic Studies
16.	ZCM05	Electric Power Market	(ZC0) Clean Energy Technologies, Master Academic Studies
17.	ZCM08	Renewable and Distributed Electrical Energy Sources	(ZC0) Clean Energy Technologies, Master Academic Studies
18.	DE107	Decision-Making and Optimization	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
19.	DE312	Electricity Markets and Regulation	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
20.	DE405	Smart Grid Networks	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
21.	DE406	Electric Power Industry in the Free Market Economy	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
22.	DE508	Power System Economics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)	
1.	Katić N., Savić M.: Autori: Nenad Katic, Milan Savic Naziv: Technical and economical optimisation of overhead power distribution line lightning protection , IEE Proc.-Gener.Transm.Distrib, 1998, No 3, pp. 239-244
2.	Katić V., Dumnić B., Katić N., Milićević D., Grabić S.: Potentials and Market Prospective of Wind Energy in Vojvodina, Thermal Science - International Scientific Journal, 2012, Vol. 16, ISSN 0354-9836, UDK: 621
3.	Strezoski V., Katić N., Janjić D.: Voltage Control Integrated in Distribution Management System, Electrical Power System Research, 2001, No 60, pp. 85-97
4.	Katić N.: Yugoslavia Develops a New Distribution Management System , Utility Automation, USA, a PennWell Publication, 1996, pp. 30-35
5.	Katić V., Dumnić B., Čorba Z., Milićević D., Katić N.: Potentials of Renewable Energy Market in Serbia – Case of Wind and Solar Energy, 8. IEEE International Conference on European Energy Market – EEM, Zagreb, 25-27 Maj, 2011, pp. 785-790, ISBN 978-1-61284-284-4
6.	Katić N., Marijanović V., Stefani I.: Smart Grid Solutions in Distribution Networks - Cost Benefit Analysis, 4. China International Conference on Electricity Distribution ICED, Nanjing, 12-16 Septembar, 2010, pp. 1-6
7.	Katić N.: PROFITABILITY OF SMART GRID SOLUTION APPLICATION IN DISTRIBUTION NETWORK, 7. Mediterranean Conference and Exibition on Power Generation, Transmission, Distribution and Energy Conversion, Agia Napa, 7-10 Novembar, 2010, pp. 1-6
8.	Katić N., Strezoski V., Popović D.: Business Benefits of DMS Software Application in Competitive Distribution, 17th International Conference on Electricity Distribution CIRED
9.	Katić N., Strezoski V., Popović D.: DMS Software Applications a Powerful Tool for the New Challenges in Deregulated Power Distribution, Balkan Power Conference
10.	Katić N., Strezoski V., Katić V.: Introducing the Management and ECTS in Electrical Power Engineering Education, ISIRR

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	16			
Total of SCI(SSCI) list papers :	4			
Current projects :	Domestic :	3	International :	14

Science, arts and professional qualifications

Name and last name:	Kovačević M. Ilija
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.09.1972
Scientific or art field:	Mathematics

Academic carieer	Year	Institution	Field
Academic title election:	1990	Faculty of Technical Sciences - Novi Sad	Mathematics
PhD thesis	1979	Faculty of Mathematics - Beograd	Mathematical Sciences
Magister thesis	1975	Faculty of Mathematics - Beograd	Mathematical Sciences
Bachelor's thesis	1971	Faculty of Sciences - Novi Sad	Mathematical Sciences

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

	ID	Course name	Study programme name, study type
1.	E212	Mathematical Analysis 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
2.	EE204	Selected Chapters in Mathematics	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	E102	Mathematical Analysis 1	(ES0) Power Software Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
4.	E102A	Mathematical Analysis 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	IM1423	Financial Mathematics	(I20) Engineering Management, Undergraduate Academic Studies
6.	0M501	Functional Analysis	(OM1) Mathematics in Engineering, Master Academic Studies
7.	0ML501	Functional Analysis	(OM1) Mathematics in Engineering, Master Academic Studies
8.	DZ01MS	Selected Chapters in Mathematics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies (I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies (Z00) Environmental Engineering, Specialised Academic Studies
9.	I004/S	Statistical Quantitative Methods	(I20) Engineering Management, Specialised Professional Studies (IB0) Engineering Management - MBA, Specialised Professional Studies
10.	GS012	Selected Chapters in Mathematics	(G10) Energy Efficiency in Buildings, Specialised Academic Studies
11.	MPK001	Statistical and Numerical Methods	(MPK) Inženjerstvo tretmana i zaštite voda - TEMPUS(uneti naziv na engledskom), Master Academic Studies
12.	SDOM30	Probability, Statistics and Theory of Engineering Experiment	(Z00) Environmental Engineering, Specialised Academic Studies
13.	D0M01	Functional Analysis 1	(OM1) Mathematics in Engineering, Doctoral Academic Studies
14.	D0M19	Functional Analysis 2	(OM1) Mathematics in Engineering, Doctoral Academic Studies

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

	ID	Course name	Study programme name, study type
15.	DOM30	Probability, Statistics and Theory of Engineering Experiment	(M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies
16.	DZ01M	Selected Chapters in Mathematics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (GI0) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	I.Kovačević, Some properties of Mn subsets and almost closed mappings, Indian J.pure appl. Math., 27(9), 1996., 875-881.
2.	I.Kovačević, On almost closed mapping, paracompactness and partial equivalence relatuions, Indian Journal of Pure and Applied mathematics,25(9), 1994., 949-954.
3.	I.Kovačević, On alfa-Hausdorff subsets, almost closed mappings and almost upper semicontinuous decomposition, Indian Jurnal of Pure and Applied mathematics 20 (4) 1989., 334-340.
4.	Kiurski J., Oros I., Ralević N., Kovačević I., Adamović (Majkić) S., Krstić J., Čomić L.: Cluster and principal component analysis in the assessment of fountain solution quality, Carpathian Journal of Earth and Environmental Sciences, 2013, Vol. 8, No 1, pp. 19-23, ISSN 1842-4090
5.	N. Adžić, I. Kovačević, V. Marić, V. Ungar, Matematička analiza 2, FTN (Edicija tehničke nauke-udžbenici), Novi Sad, 1996., 1-299.
6.	I. Kovačević, N. Ralević, Funkcionalna analiza,FTN (Edicija tehničke nauke-udžbenici), Novi Sad, (Ponovljeno i dopunjeno izdanje)2004., 1-203.
7.	I. Kovačević, N. Ralević, B.Carić,V.Marić,M.Novković,S.Medić,Matematička analiza 1- uvodni pojmovi i granični procesi ,(Ponovljeno i dopunjeno izdanje), FTN (Edicija tehničke nauke-udžbenici) Novi Sad, 2012,1-155.
8.	I.Kovačević, V.Marić, M.Novković, B.Carić, N.Ralević,S.Medić, Matematička analiza 1 - diferencijalni i integralni račun, obične diferencijalne jednačine (Ponovljeno i dopunjeno izdanje),FTN (Edicija tehničke nauke-udžbenici), Novi Sad,2012., 1-280.
9.	I. Kovačević, Algebra, Naučna knjiga, Beograd, 1990., 1-116.
10.	M.Novković,B.Carić,I.Kovačević, Zbirka rešenih zadataka iz verovatnoće i statistike, FTN (Edicija tehničke nauke-udžbenici), Novi Sad, (Ponovljeno i dopunjeno izdanje) 2012., 1-169.

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

Quotation total :	28			
Total of SCI(SSCI) list papers :	7			
Current projects :	Domestic :	3	International :	2

Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES — Power Software Engineering

Science, arts and professional qualifications

Name and last name:	Kupusinac D. Aleksandar
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.04.2007
Scientific or art field:	Applied Computer Science and Informatics

Academic carieer	Year	Institution	Field
Academic title election:	2011	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	2010	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Magister thesis	2008	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Bachelor's thesis	2005	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering

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

	ID	Course name	Study programme name, study type
1.	E131	Object-Oriented Programming	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E223A	Object Programming	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies
3.	EOS36	Elektronsko poslovanje i ugovaranje	(E01) Power Engineering - Renewble Sources of Electrical Energy, Undergraduate Professional Studies
4.	SZP01	Selected topics in Information technologies	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
5.	DRNI01	Selected Topics in Computer Programming	(E20) Computing and Control Engineering, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Kupusinac A.: Zbirka rešenih zadataka iz programskog jezika C++. Novi Sad: FTN, 2011.
2. Malbaški D., Kupusinac A., Popov S.: The Impact of Coding Style on the Readability of C Programs, TTEM. Tehnics tehnologies education management, 2011, Vol. 6, No 4, pp. 1073-1082, ISSN 1840-1503
3. Dobromirov D., Radišić M., Kupusinac A.: Emerging markets arbitrages' perception: Risk versus growth potential, African Journal of Business Management, 2011, Vol. 5, No 3, pp. 713-721, ISSN 1993-8233
4. Kupusinac A., Malbaški D.: Automatic Verification of Inheritance, 15. International Scientific Conference on Industrial Systems - IS, Novi Sad, 14-16 Septembar, 2011, pp. 177-180, ISBN 978-86-7892-341-8
5. Malbaški D., Kupusinac A.: Classification of Invariants in Class Based on Conceptual Definitions, 15. International Scientific Conference on Industrial Systems - IS, Novi Sad, 14-16 Septembar, 2011, pp. 181-185, ISBN 978-86-7892-341-8
6. Sečujski M., Kupusinac A., Pekar D.: Prediction of phone duration in Serbian language based on decision trees, 3. Die Unterschiede zwischen dem Bosnischen/ Bosniakischen, Kroatischen und Serbischen, Graz, 16-18 April, 2009, pp. 229-240
7. Kupusinac A., Sečujski M.: Part-of-Speech Tagging Based on Combining Markov Models and Machine Learning, 3. Speech and Language, Beograd: IEPSP, LAAC, 13-14 Novembar, 2009, pp. 324-333, ISBN 978-86-81879-26-9
8. Delić V., Sečujski M., Kupusinac A.: Transformation-Based Part-Of-Speech Tagging For Serbian Language, 8. WSEAS Intnl. Conf. on Computational Intelligence, Man-Machine Systems and Cybernetics (CIMMACS), Peurto de la Cruz: Tenerife, Spain, 14-16 Decembar, 2009, pp. 98-103
9. Malbaški D., Kupusinac A.: The Strong Object Invariant, Technology Education Management Informatics - TEM, 2012, Vol. 1, No 1, pp. 9-15, ISSN 2217-8309
10. Kupusinac A., Malbaški D.: Analysis of Loop Semantics using S-formulas, Technology Education Management Informatics - TEM, 2012, Vol. 1, No 2, pp. 72-77, ISSN 2217-8309

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

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

Science, arts and professional qualifications

Name and last name:	Lendak I. Imre
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.02.2005
Scientific or art field:	Automatic Control and System Engineering

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Magister thesis	2007	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Bachelor's thesis	2002	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering

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

	ID	Course name	Study programme name, study type
1.	E232	System Modeling and Simulation	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
2.	GI303A	Distributed Systems in Geomatics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
3.	E2312	Software design for SCADA systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
4.	ESI003	Electric power software development	(ES0) Power Software Engineering, Undergraduate Academic Studies
5.	ESI011	Software security and safety in power engineering	(ES0) Power Software Engineering, Undergraduate Academic Studies
6.	ESI016	Smart Grid Programming	(ES0) Power Software Engineering, Undergraduate Academic Studies
7.	ESI017	Mobile computing in power systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
8.	SEAU02	SCADA Software	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
9.	AU502	Distributed Control Systems	(E20) Computing and Control Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
10.	S054	Computer Modelling and Simulation	(S01) Postal Traffic and Telecommunications, Master Academic Studies
11.	BMIM3D	Development of integrated biomedical systems	(BM0) Biomedical Engineering, Master Academic Studies
12.	E2533	Discrete event simulation	(E20) Computing and Control Engineering, Master Academic Studies
13.	E2535	Software Algorithms in Supervisory Control and Data Acquisition Systems	(E20) Computing and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
14.	ESI033	Advanced Power Grid Communication Protocols	(ES0) Power Software Engineering, Master Academic Studies

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

	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

Representative refferences (minimum 5, not more than 10)

1.	Lendak I., Erdeljan A. & Popović D. (2011), „Algorithm for cataloguing topologies in the Common Information Model (CIM)“, Computers and mathematics with applications, February 2011, vol 61 (3), pp. 715-721. DOI 10.1016/j.camwa.2010.12.021
2.	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.
3.	Varga E., Lendak I., Erdeljan A. & Gavrić M., „Applicability of RESTful Web Services in Control Center Software Integrations“, 2011 International Conference on Innovations in Information Technology, April 2011, Abu Dhabi, United Arab Emirates, pp. 282-286.
4.	Lendak I., Varga E., Erdeljan A. & Gavrić M., „RESTful Web Services and the Common Information Model (CIM)“, 2010 IEEE International Energy Conference (ENERGYCON 2010), December 2010, Manama, Bahrein, pp. 716-721.
5.	Lendak I., Erdeljan A., Čapko D. & Vukmirović S., “Algorithms in electric power system one-line diagram creation”, 2010 IEEE International Conference on Systems, Man, and Cybernetics (SMC 2010), October 2010, Istanbul, Turkey, pp. 2867-2873.
6.	Lendák I., Póth M., Čapko D., Vukmirovć S. & Erdeljan A., „Electric Power System One-Line Diagram Generation with Genetic Algorithm“, 8th International Symposium on Intelligent Systems and Informatics (SISY 2010), September 2010, Subotica, Serbia, pp. 487-491.
7.	Lendak I., Varga E., Erdeljan A. & Gavrić M., „RESTful Access to Power System State Variables“, 2010 IEEE Region 8 International Conference on Computational Technologies in Electrical and Electronics Engineering (SIBIRCON), July 2010, Irkutsk, Russia, pp. 450-454.
8.	Lendak I., Erdeljan A. & Vukmirovic S., „Algorithm for Assessing Connectivity in Power System Software Models“, Annals of DAAAM for 2009 & Proceedings of the 20th International DAAAM Symposium, ISBN 978-3-901509-70-4, ISSN 1726-9679, Vienna, Austria, 2009, pp. 147-148.
9.	Lendak I., Erdeljan A. & Vukmirović S., „Generic data conversion based on IEC's Generic Data Access“, 19th International DAAAM Symposium, Vienna, Austrija: DAAAM International Vienna, 2008, ISBN 978-3-901590-68-1, pp. 745-746.
10.	Lendak I., Erdeljan A. & Vukmirović S., „Trends in power system software modeling”, The 18th International DAAAM Symposium, "Intelligent Manufacturing & Automation: Focus on Creativity, Responsibility and Ethics of Engineers", 2007, Zadar, Croatia, pp. 421-422.

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

Science, arts and professional qualifications

Name and last name:	Ličen S. Branislava
Academic title:	Lecturer
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	07.04.2005
Scientific or art field:	English

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	English
Bachelor's thesis	2009	Faculty of Philosophy - Novi Sad	Philology

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

	ID	Course name	Study programme name, study type
1.	AEJ1L	English Language - Elementary	(A00) Architecture, Undergraduate Academic Studies
2.	AEJ2L	English Language intermediate	(A00) Architecture, Undergraduate Academic Studies
3.	AEJ2Z	English intermediate	(A00) Architecture, Undergraduate Academic Studies
4.	AEJ3Z	English Language - upper intermediate	(A00) Architecture, Undergraduate Academic Studies
5.	E21I0	Izborni strani jezik 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
6.	EJ01L	English Language – Elementary	(G00) Civil Engineering, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
7.	EJ01Z	English Language - Elementary	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (F00) Graphic Engineering and Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies

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

	ID	Course name	Study programme name, study type
8.	EJ02L	English Language – Pre-Intermediate	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (F00) Graphic Engineering and Design, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
9.	EJ02Z	English Language – Pre-Intermediate	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
10.	EJ03Z	English Language - Intermediate	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
11.	EJ04L	English Language – Upper Intermediate	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
12.	EJ1Z	English Language - Elementary	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies

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

	ID	Course name	Study programme name, study type
13.	EJ2L	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
14.	EJ2Z	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies
15.	EJ3L	English Language – Advanced	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
16.	EJE5	English Language – First Certificat 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
17.	EJE6	English Language - First Certificate 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
18.	EJEI	English Language for Engineers	(H00) Mechatronics, Undergraduate Academic Studies
19.	EJEI1	English in Engineering 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
20.	EJEI2	English in Engineering 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
21.	EJF5	English Language for GRID 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
22.	EJF6	English Language for GRID 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
23.	EJGR	English Language – ESP Course	(G00) Civil Engineering, Undergraduate Academic Studies
24.	EJM	English Language – ESP Course	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
25.	EJPST	English Language in Postal Traffic	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
26.	EJSIT	English Language in Traffic and Transport	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies

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

	ID	Course name	Study programme name, study type
27.	EJZ	English Language - Specialized	(Z20) Environmental Engineering, Undergraduate Academic Studies
28.	F320	English Language – ESP Course 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
29.	F321	English Language – ESP Course 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
30.	ISIT07	English Language 2	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
31.	ASI381	English language 1	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
32.	ASI431	English Language 2	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
33.	BMI80	English 1	(BM0) Biomedical Engineering, Undergraduate Academic Studies
34.	BMI81	English 2	(BM0) Biomedical Engineering, Undergraduate Academic Studies
35.	EJIIM	English for Specific Purposes	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
36.	ETI05	English language - Elementary	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
37.	ETI10	English Language-Lower	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
38.	ETI15	Engleski jezik - srednji	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
39.	ETI20	Engleski jezik - napredni	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
40.	EJ1Z	English Language - Elementary	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies
41.	EJ2Z	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies
42.	eja	English Language – a Specialized Course	(AH0) Architecture, Master Academic Studies
43.	EJE7	English Language - Advanced	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
44.	F507	English Language for GRID 3	(F00) Graphic Engineering and Design, Master Academic Studies

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

	ID	Course name	Study programme name, study type
45.	NIT03	Business English	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	''Formal and Aesthetic Aspects of Nadine Gordimer's Short Story'', Romanian Journal of English Studies, University of the West Timisoara, br. 7, 2010., str.191-198.
2.	''Summarization Skills of Engineering Students' Reading in a Second Language'', Jezik struke, izazovi i perspektive, Univerzitet u Beogradu, 2011., str. 291-299.
3.	''On Race, Ethnicity and Gender in Nadine Gordimer's 'Jump and Other Stories'', Selected Papers in Literature and Culture from the 9th HUSSE Conference, Pecs, 2010., str. 285-290.
4.	''Living in the Interregnum: Nadine Gordimer's 'Conservationist', 'Burger's Daughter' and 'July's People'', B.A.S. Conference on British and American Studies, University of the West Timisoara, br.XXI, maj 2011., str. 28.
5.	''Preispitivanje istorijskog konteksta u Barnsovom romanu Floberov papagaj'', Sveske, br.100, Pančevo, jun 2011., str. 69-77.
6.	''Kreiranje udžbenika za stručni engleski jezik za studente različitog predznanja'', Jezik struke, teorija i praksa, Univerzitet u Beogradu, 2009., str.445-454.
7.	''Istorijat nastave stručnog engleskog jezika na FTN-u u Novom Sadu'', Jezik struke, teorija i praksa, Univerzitet u Beogradu, 2009., str. 170-176.
8.	Zajednica i pojedinac u delima Toni Morison u romanima Najplavlje oko, Sula, Voljena i Katreno luče, 2009.

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

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

Science, arts and professional qualifications

Name and last name:	Lukić J. Tibor
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.07.2012
Scientific or art field:	Mathematics

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Mathematics
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Mathematics
Magister thesis	2004	Faculty of Sciences - Novi Sad	Mathematical Sciences
Bachelor's thesis	1998	Faculty of Sciences - Novi Sad	Mathematical Sciences

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

	ID	Course name	Study programme name, study type
1.	E212	Mathematical Analysis 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
2.	E213	Discrete Mathematics and Linear Algebra	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
3.	E221A	Mathematical Analysis 2	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
4.	IAM004	Geometry of Discrete Space	(F10) Engineering Animation, Undergraduate Academic Studies
5.	M106	Mathematics 2	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
6.	M4201	Mathematics 3	(M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
7.	M4202	Applied Mathematical Analysis	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
8.	Z104	Mathematics 1	(Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies

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

	ID	Course name	Study programme name, study type
9.	Z106	Mathematics 2	(Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
10.	E101	Discrete Mathematics	(ES0) Power Software Engineering, Undergraduate Academic Studies
11.	ISIT02	Mathematics 1	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
12.	Z104	Matematika 1(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
13.	Z106	Matematika 2(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
14.	0ML503	Combinatorics and Graph Theory	(OM1) Mathematics in Engineering, Master Academic Studies
15.	0ML507	Logic in computer science	(OM1) Mathematics in Engineering, Master Academic Studies
16.	IA022	Numerical Optimization	(F20) Engineering Animation, Master Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Tibor Lukic, Nebojsa M. Ralevic, Geometric Mean Newton"s Method for Simple and Multiple Roots, Elsevier, Applied Mathematics Letters 21, pp. 30-36, 2008.
2.	Joakim Lindblad, Nata ša Sladoje, and Tibor Lukic, Feature Based Defuzzication in Z2 and Z3 Using a Scale Space Approach, Springer-Verlag, Volume 4245,of Lecture Notes in Computer Science, pp. 378-389, 2006.
3.	Tibor Lukic, Natasa Sladoje, and Joakim Lindblad, Deterministic Defuzzication based on Spectral Projected Gradient Optimization, Springer-Verlag, Volume 5096 of Lecture Notes in Computer Science, pp. 476-485, 2008.
4.	Zorana Lu žanin and Tibor Lukic, Convergence of the MRV method at singular points, Volume 35 of Novi Sad Journal of Mathematics, pp. 71-79, 2005.
5.	Tibor Lukic, Neboj ša M. Ralevic and Aniko Lukity, Application of Aggregation Operators in Solution of Nonlinear Equations, Proceedings of 4th Serbian-Hungarian Joint Symposium on Intelligent Systems, pp. 329-339, Subotica, 2006.
6.	Tibor Lukic and Neboj ša M. Ralevic, Newton"s Method with Accelerated Convergence Modified by an Aggregation Operator, Proceedings of 3rd Serbian-Hungarian Joint Symposium on Intelligent Systems, pp. 121-128, Subotica, 2005.
7.	Tibor Lukic, Joakim Lindblad, and Natasa Sladoje, Regularized Image Denois- ing Based on Spectral Gradient Optimization, Inverse Problems, Vol. 27:085010, IOP Publishing, 2011.
8.	Lukić T.: Energy-minimization based Discrete Tomography Reconstruction Method for Images on Triangular Grid, Lecture Notes in Computer Science, LNCS, 2012
9.	Tibor Lukic, Benedek Nagy, Energy-minimization based Discrete Tomography Reconstruction Method for Images on Triangular Grid, Proceedings of Combi- natorial Image Analysis - 15th International Workshop (IWCIA), Austin (TX), USA, LNCS, Vol. 7655, Springer-Verlag, pp. 274-284, 2012.
10.	Zorana Luzanin and Tibor Lukic, Convergence of the MRV method at singular points, Novi Sad Journal of Mathematics, Vol. 35, pp. 71{79, 2005.

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

Quotation total :	0			
Total of SCI(SSCI) list papers :	8			
Current projects :	Domestic :	2	International :	0

Science, arts and professional qualifications

Name and last name:	Luković S. Ivan
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	18.05.1991
Scientific or art field:	Applied Computer Science and Informatics

Academic carieer	Year	Institution	Field
Academic title election:	2006	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	1996	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Magister thesis	1993	School of Electrical Engineering - Beograd	Applied Computer Science and Informatics
Bachelor's thesis	1990	Military-Technical Faculty - Zagreb	Applied Computer Science and Informatics

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

	ID	Course name	Study programme name, study type
1.	E2I40	Database Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
2.	E2I41	Information System Engineering	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
3.	GI205	Information Systems and Databases	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	GI408A	Geospatial Databases	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
5.	RI43A	Databases 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
6.	RI43B	Databases 2	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
7.	0RI43B	Databases 2	(ES0) Power Software Engineering, Undergraduate Academic Studies
8.	BM118E	Databases	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	EE417A	Databases	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
10.	SE0013	Data Organization	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
11.	SE0016	Databases	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
12.	E2502	Data Warehouse Systems	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies

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

	ID	Course name	Study programme name, study type
13.	E2517	Database Management Systems	(E20) Computing and Control Engineering, Master Academic Studies (ES0) Power Software Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
14.	E2518	Software Based Business Process Modeling	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
15.	E2530	Domain Specific Modeling and Languages	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
16.	DRNI02	Selected Topics in Advanced Software Architecture	(E20) Computing and Control Engineering, Doctoral Academic Studies
17.	DRNI04	Selected Topics in Database Management	(E20) Computing and Control Engineering, Doctoral Academic Studies
18.	DRNI05	Selected Topics in Software Standardization and Quality	(E20) Computing and Control Engineering, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies
19.	DRNI08	Selected Topics in Information Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Luković I., Ivančević V., Čeliković M., Aleksić S.: DSLs in Action with Model Based Approaches to Information System Development, in the book: Formal and Practical Aspects of Domain-Specific Languages: Recent Developments; Chapter 17., IGI Global, USA, 2013, pp. 502-532, ISBN 978-1-4666-2092-6.
2.	Luković I.: From the Synthesis Algorithm to the Model Driven Transformations in Database Design, 10. International Scientific Conference on Informatics, Herlany: Slovak Society for Applied Cybernetics and Informatics and Technical University of Košice - Faculty of Electrical Engineering and Informatics, 23-25 Novembar, 2009, pp. 9-18, ISBN 978-80-8086-126-1. (Invited paper).
3.	Luković I.: Application of Information System Development Tools and Methods - Some Experiences from Industry and Research Projects in Serbia, 9. International Business Informatics Conference – Symposium on Business Informatics in Central and Eastern Europe, Vienna: Austrian Computer Society and University of Vienna, 25-27 Februar, 2009, pp. 119-128, ISBN 978-3-85403-242-7. (Invited paper).
4.	Luković I: An Approach to Specification and Generation of Software Systems using Form Types, 2nd Conference on Compilers, Related Technologies and Applications (CoRTA 2008), July 11, 2008, Braganca, Portugal, Proceedings, Polytechnic Institute of Braganca, Portugal, ISBN: 978-972-745-096-1, pp. 4. (Invited talk).
5.	Mogin P, Luković I, Govedarica M: Principi projektovanja baza podataka, II izdanje, Univerzitet u Novom Sadu, Fakultet tehničkih nauka, Novi Sad, 2004, ISBN: 86-80249-81-5, 700 str.
6.	Mogin P, Luković I: Principi baza podataka, Univerzitet u Novom Sadu, Fakultet tehničkih nauka i MP "Stylos", Novi Sad, 1996, 350 str.
7.	Obrenović N., Aleksić S., Popović A., Luković I.: Transformations of Check Constraint PIM Specifications, COMPUTING AND INFORMATICS, SLOVAK ACADEMY OF SCIENCES, ISSN 1335-9150, 2012, Vol. 31, No. 5, pp. 1045-1079.
8.	Luković I, Mogin P, Pavićević J, Ristić S, "An Approach to Developing Complex Database Schemas Using Form Types", Software: Practice and Experience, John Wiley & Sons Inc, Hoboken, USA, ISSN: 0038-0644, DOI: 10.1002/spe.820, Vol. 37, No. 15, 2007, pp. 1621-1656.
9.	Luković I., Pereira Varanda M., Oliveira N., Cruz D., Henriques Rangel P.: A DSL for PIM Specifications: Design and Attribute Grammar based Implementation, Computer Science and Information Systems (ComSIS), ISSN 1820-0214, 2011, Vol. 8, No 2, pp. 379-403.
10.	Čeliković M., Luković I., Aleksić S., Ivančević V.: A MOF based Meta-Model and a Concrete DSL Syntax of IIS*Case PIM Concepts, Computer Science and Information Sistems, ISSN 1820-0214, 2012, Vol. 9, No 3, pp. 1075-1103.

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

Quotation total :	22			
Total of SCI(SSCI) list papers :	5			
Current projects :	Domestic :	1	International :	0

Science, arts and professional qualifications

Name and last name:	Malbaša V. Vuk
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.11.2012
Scientific or art field:	Computer Science

Academic carieer	Year	Institution	Field
Academic title election:	2011	Faculty of Sciences - Novi Sad	Computer Science
PhD thesis	2011		Informatics
Bachelor's thesis	2006		Informatics and Computing

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

	ID	Course name	Study programme name, study type
1.	ESI003	Electric power software development	(ES0) Power Software Engineering, Undergraduate Academic Studies
2.	ESI010	Basics of control in power systems	(ES0) Power Software Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	ESI013	Multi-tier applications development in power systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
4.	ESI015	Distributed Computer Systems in Power Systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
5.	ESI017	Mobile computing in power systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
6.	ESI018	GIS in power systems	(ES0) Power Software Engineering, Undergraduate Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	C. Zheng, V. Malbasa, M. Kezunovic: Regression Tree for Stability Margin Prediction Using Synchrophasor Measurements, IEEE Trans. Power Syst. 2012
2.	C. Zheng, V. Malbasa, M. Kezunovic: A Fast Stability Assessment Scheme based on Classification and Regression Tree, PowerCon2012, Auckland, New Zealand, 2012
3.	V. Malbasa, S. Vucetic: Spatially Logistic Regression for Disease Mapping on Large Moving Populations, pp. 1352, Proceedings of ACM SIGKDD 2011, San Diego, USA
4.	V. Malbasa, D. Boscovic, M. Tosic: Predictions for Opportunistic Multi-Path Routing in Wireless Mesh Networks, Proceedings of COST Action IC 0902 Workshop, SIG 2: Learning and Artificial Intelligence 2011, Barcelona, Spain
5.	V. Malbasa, S. Vucetic: A Reservoir Sampling Algorithm with Adaptive Estimation of Conditional Expectation, pp. 2200, Proceedings of the International Joint Conference on Neural Networks 2007, Miami, USA

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

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

Science, arts and professional qualifications

Name and last name:	Malbaški T. Dušan
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	15.06.1975
Scientific or art field:	Applied Computer Science and Informatics

Academic carieer	Year	Institution	Field
Academic title election:	1997	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	1986	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
Magister thesis	1980	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
Bachelor's thesis	1974	School of Electrical Engineering - Beograd	Electrical and Computer Engineering

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

	ID	Course name	Study programme name, study type
1.	E111	Programming Languages and Data Structures	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	E131	Object-Oriented Programming	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	E214	Programming Languages and Data Structures	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies
4.	E223A	Object Programming	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies
5.	H207	Programming and Programming Languages	(F10) Engineering Animation, Undergraduate Academic Studies (H00) Mechatronics, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
6.	GI111	Information technologies in geodesy	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
7.	DRNI01	Selected Topics in Computer Programming	(E20) Computing and Control Engineering, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
8.	DRNI05	Selected Topics in Software Standardization and Quality	(E20) Computing and Control Engineering, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	(koautori D.Obradović i V.Malbaša): "Analysis and Practical Considerations of an Improved Multimicroprocessor System", časopis Microprocessing and Microprogramming, North-Holland, no. 16, 1985 (naziv promenjen u Journal of Systems Architecture).
2.	(koautori J.Rekecki i dr.): "Automatic Design of the Technological Process for NC Lathes by the Use of SAPOR-S System", International Journal on Production Research, Vol. 21 No. 2, 1983.
3.	Malbaški D., Kupusinac A., Popov S.: The Impact of Coding Style on the Readability of C Programs, TTEM. Tehnics tehnologies education management, 2011, Vol. 6, No 4, pp. 1073-1082, ISSN 1840-1503
4.	(koautor D.Ivetić): "A Dichotomous Software Life Cycle Model", Journal of Applied Systems Studies, Cambridge International Science Publishing, Cambridge, England, vol. 2, No 2, 2001
5.	(koautori D.Obradović i V.Malbaša):: "Multimicroprocessor Performance VS Shared Bus Efficiency", ACM Europian Regional Conference, Florence, Italy, 1985.<\eng>
6.	(koautor D.Ivetić): "Some Notes on the Formal Definition of Streams", YUJOR, Vol.6, No. 2, 1996.
7.	(koautori M.Khlaif, D.Obradović): "A New Approach to Soft System Methodology", Automatika, Vol 30. (1989), No. 1-2.

Representative refferences (minimum 5, not more than 10)	
8.	(koautor D.Obradović): "CLAS-a Formal Aid to Data Elements Identification", časopis YUJOR, vol. 4, no. 2, 1994.
9.	(koautor D. Ivetić) "UML? HCI = Essential Modeling", IEEE 7th INES Conference, 4-6 March, Assuit-Luxor, Egypt, 2003.
10.	(koautori B. Markoski, P. Hotomski): " Symbolic Execution in Program Testing", International ZEMAK Symposium, Struga, Macedonia, 2002

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	0			
Total of SCI(SSCI) list papers :	2			
Current projects :	Domestic :	0	International :	0

Science, arts and professional qualifications

Name and last name:	Mihailović P. Biljana
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	15.03.1999
Scientific or art field:	Mathematics

Academic carieer	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Mathematics
PhD thesis	2009	Faculty of Sciences - Novi Sad	Mathematical Sciences
Magister thesis	2003	Faculty of Sciences - Novi Sad	Mathematical Sciences
Bachelor's thesis	1998	Faculty of Sciences - Novi Sad	Mathematical Sciences

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

	ID	Course name	Study programme name, study type
1.	E135	Probability, Statistics and Stochastic Processes	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E212	Mathematical Analysis 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
3.	E213	Discrete Mathematics and Linear Algebra	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
4.	E224A	Probability and Stochastic Processes	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
5.	EOS07	Mathematics 2	(E01) Power Engineering - Renewble Sources of Electrical Energy, Undergraduate Professional Studies
6.	M102	Mathematics 1	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
7.	E102	Mathematical Analysis 1	(ES0) Power Software Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
8.	BMI91	Mathematics 1	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	BMI92	Mathematics 2	(BM0) Biomedical Engineering, Undergraduate Academic Studies
10.	E102A	Mathematical Analysis 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies

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

	ID	Course name	Study programme name, study type
11.	IM1423	Financial Mathematics	(I20) Engineering Management, Undergraduate Academic Studies
12.	DZ01MS	Selected Chapters in Mathematics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies (I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies (Z00) Environmental Engineering, Specialised Academic Studies
13.	I004/S	Statistical Quantitative Methods	(I20) Engineering Management, Specialised Professional Studies (IB0) Engineering Management - MBA, Specialised Professional Studies
14.	OIR009	Primenjena aktuarska matematika	(I20) Engineering Management, Specialised Professional Studies
15.	ZR503	Statistical Advanced Models	(Z01) Safety at Work, Master Academic Studies
16.	D0M07	Mathematical Foundations of Fuzzy Systems	(OM1) Mathematics in Engineering, Doctoral Academic Studies
17.	D0M21	Fuzzy Systems and Their Applications	(OM1) Mathematics in Engineering, Doctoral Academic Studies
18.	D0M49	Aggregation Functions	(OM1) Mathematics in Engineering, Doctoral Academic Studies
19.	D0M50	Fuzzy Measures and Integrals	(OM1) Mathematics in Engineering, Doctoral Academic Studies
20.	D0M51	Large Deviations Principles	(OM1) Mathematics in Engineering, Doctoral Academic Studies
21.	DZ01M	Selected Chapters in Mathematics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (GI0) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. E. Pap, B. Mihailović: A representatation of a comonotone-v-additive and monotone functional by two Sugeno integrals, Fuzzy Sets and Systems 155, (2005) 77-88
2. B. Mihailović, E. Pap: Sugeno integral based on absolutely monotone real set functions, Fuzzy Sets and Systems, Vol 161, Issue 22, (2010) 2857-2869
3. B. Mihailović, E. Pap: Asymmetric integral as a limit of generated Choquet integrals based on absolutely monotone real set functions, Fuzzy Sets and Systems 181, (2011) 39-49.
4. B. Mihailović, E. Pap: Asymmetric general Choquet integrals, Acta Polytechnica Hungarica, Volume 6, Issue Number 1, (2009) 161-173.
5. Kalina M., Manzi M., Mihailović B.: Choquet integrals and T-supermodularity, E. Pap (Ed.): Intelligent Systems: Models and Applications, TIEI 3, DOI: 10.1007/978-3-642-33959-2 4 c Springer-Verlag Berlin Heidelberg , (2013) 61-75.

Representative refferences (minimum 5, not more than 10)	
6.	B. Mihailović, Lj. Nedović, T. Grbić : The induced Sugeno integral-based operator w.r.t bi-fuzzy measures, Journal of Electrical Engineering, Vol.54, No. 12/s, (2003) 76-79.
7.	B. Mihailović, E. Pap: Non-monotonic set functions and general fuzzy integrals, Proceedings of SISY 2008, Subotica, (2008) 371-374.
8.	B. Mihailović: On the class of symmetric S-separable aggregation functions Proceedings of AGOP 2007, Ghent, Belgium, (2007) 187-191.
9.	B. Mihailović, E. Pap: Decomposable signed fuzzy measures, Proceedings of EUSFLAT 2007, Ostrava, Czech Republic, (2007) 265-269.
10.	B. Mihailović, M. Manzi: On the asymmetric Shilket-like integral, Proceedings of AGOP2011, Benevento, Italy, (2011) 73-77.

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	10			
Total of SCI(SSCI) list papers :	4			
Current projects :	Domestic :	2	International :	0

Science, arts and professional qualifications

Name and last name:	Mihajlović R. Dragan
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	24.09.1990
Scientific or art field:	Applied Computer Science and Informatics

Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	1988	Faculty of Electrical Engineering - Sarajevo	Applied Computer Science and Informatics
Bachelor's thesis	1973	Faculty of Electrical Engineering - Sarajevo	Applied Computer Science and Informatics
Magister thesis	1070	Faculty of Electrical Engineering - Sarajevo	Electrical and Computer Engineering

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

	ID	Course name	Study programme name, study type
1.	AU54	Geoinformation Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies
2.	E243	Human Computer Interaction	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
3.	GI029	Utility Information Systems and their Application	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	GI205	Information Systems and Databases	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
5.	RI43A	Databases 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
6.	RI43B	Databases 2	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
7.	RI4A	Computer Graphics	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
8.	0RI43B	Databases 2	(ES0) Power Software Engineering, Undergraduate Academic Studies
9.	BM118E	Databases	(BM0) Biomedical Engineering, Undergraduate Academic Studies
10.	E0243	Human-Computer Interaction	(ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies
11.	EE417A	Databases	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies

Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES — Power Software Engineering

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

	ID	Course name	Study programme name, study type
12.	E2505	Multimedia Systems	(E20) Computing and Control Engineering, Master Academic Studies (ES0) Power Software Engineering, Master Academic Studies (F20) Engineering Animation, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
13.	E2516	Virtual Reality Systems	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
14.	FDS151	Selected Chapters in Multimedia	(F00) Graphic Engineering and Design, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Mihajlović D.,Informacioni sistemi i projektovanje baza podataka, FTN Novi Sad, 1998
2.	Mihajlović D, Obradović D,Jedan algoritam sažimanja srpskohrvatskih reči, Informatika br 4, pp45-47, 1982
3.	Mihajlović D, Obradović D, An evalution of textual documents indexing methods, Yujor, 1992, pp107-112.
4.	Mihajlović D i ostali, Softversko rešenje za farmaceutski informacioni sistem, Diskobolos 97.
5.	Mihajlović D, Kecman Ž, Farmaceutski informacioni sistem, I kongres farmaceuta Jugoslavije, Vrnjačka Banja, 1994
6.	Mihajlović D, Izbor parova leksičkih jedinica iz poznatog rečnika za automatizovano postavljanje relacija u tezaurusu
7.	Mihajlović D, Odredjivanje vrsta reči iz srpskohrvatskog jezika primenom računara, Informatica, br 1, pp52-54, 1988
8.	Perišić B, Obradović D, Mihajlović D, Standardizacija metodologije projektovanja informacionih sistema software-inženjerski aspekti, Standardizacija i kvalitet u informacionim tehnologijama, beograd 1995.
9.	Mihajlović D, Nićin V, Prilog razvoju automastke obrade informacija u INDOK-delatnosti u organima uprave, Dani informatike 80, pp73-83, Novi Sad
10.	Obradović D, Perišić B, Mihajlović D, Konjović Z, Stanje i trendovi u projektovanju informacionih sistema, IPME, Beograd, 1992

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

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

Science, arts and professional qualifications

Name and last name:	Mirović Đ. Ivana
Academic title:	Lecturer
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.04.1990
Scientific or art field:	English

Academic carieer	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	English
Bachelor's thesis	1984	Faculty of Philosophy - Novi Sad	English

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

	ID	Course name	Study programme name, study type
1.	AEJ1L	English Language - Elementary	(A00) Architecture, Undergraduate Academic Studies
2.	AEJ2L	English Language intermediate	(A00) Architecture, Undergraduate Academic Studies
3.	AEJ2Z	English intermediate	(A00) Architecture, Undergraduate Academic Studies
4.	AEJ3Z	English Language - upper intermediate	(A00) Architecture, Undergraduate Academic Studies
5.	EJ01L	English Language – Elementary	(G00) Civil Engineering, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
6.	EJ01Z	English Language - Elementary	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (F00) Graphic Engineering and Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
7.	EJ02L	English Language – Pre-Intermediate	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (F00) Graphic Engineering and Design, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies

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

	ID	Course name	Study programme name, study type
8.	EJ02Z	English Language – Pre-Intermediate	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
9.	EJ03Z	English Language - Intermediate	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
10.	EJ04L	English Language – Upper Intermediate	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
11.	EJ1Z	English Language - Elementary	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies
12.	EJ2L	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies

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

	ID	Course name	Study programme name, study type
13.	EJ2Z	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies
14.	EJ3L	English Language – Advanced	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
15.	EJE5	English Language – First Certificat 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
16.	EJE6	English Language - First Certificate 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
17.	EJEI	English Language for Engineers	(H00) Mechatronics, Undergraduate Academic Studies
18.	EJEI1	English in Engineering 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
19.	EJEI2	English in Engineering 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
20.	EJF5	English Language for GRID 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
21.	EJF6	English Language for GRID 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
22.	EJGR	English Language – ESP Course	(G00) Civil Engineering, Undergraduate Academic Studies
23.	EJM	English Language – ESP Course	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
24.	EJPST	English Language in Postal Traffic	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
25.	EJSIT	English Language in Traffic and Transport	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
26.	EJZ	English Language - Specialized	(Z20) Environmental Engineering, Undergraduate Academic Studies
27.	F320	English Language – ESP Course 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
28.	F321	English Language – ESP Course 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
29.	ISIT07	English Language 2	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
30.	ASI381	English language 1	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies

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

	ID	Course name	Study programme name, study type
31.	ASI431	English Language 2	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
32.	BMI80	English 1	(BM0) Biomedical Engineering, Undergraduate Academic Studies
33.	BMI81	English 2	(BM0) Biomedical Engineering, Undergraduate Academic Studies
34.	EJIIM	English for Specific Purposes	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
35.	ETI05	English language - Elementary	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
36.	EJ1Z	English Language - Elementary	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies
37.	EJ2Z	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies
38.	eja	English Language – a Specialized Course	(AH0) Architecture, Master Academic Studies
39.	EJE7	English Language - Advanced	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
40.	F507	English Language for GRID 3	(F00) Graphic Engineering and Design, Master Academic Studies
41.	NIT03	Business English	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Prevod monografije: Nenad Teofanov: Ultramodulation Spaces and Pseudodifferential Operators, Zadužbina Andrejević
2.	Prevod publikacije o Fakultetu tehničkih nauka, Faculty of Technical Sciences, 2004
3.	Vesna Bogdanović i Ivana Mirović: Engleski jezik 1 za grafičko inženjerstvo i dizajn, FTN izdavaštvo, Novi Sad, 2007
4.	Ivana Mirović i Vesna Bogranović: Engleski jezik 2 za grafičko inženjerstvo i dizajn, FTN izdavaštvo, Novi Sad, 2011
5.	I. Mirović, V. Bogdanović, B. Ličen: Istorijat nastave stručnog engleskog jezika na FTN u Novom Sadu. međunarodna konferencija Jezik struke, teorija i praksa, Beograd, 2008
6.	V. Bogdanović, I. Mirović, B. Ličen: Kreiranje udžbenika za engleski jezik za studente različitog predznanja, međunarodna konferencija Jezik struke, teorija i praksa, Beograd, 2008
7.	I. Mirović, B. Ličen, V. Bogdanović: Summarization skills of engineering students reading in a second language, Language for Specific Purposes, Challenges and Prospects, Belgrade, 2011

Representative refferences (minimum 5, not more than 10)	
8.	Mirović I, Gak D,, Bogdavović V.: Trust me - I'm an engineer or: Why we should challange our students with demanding tasks, 5th International Conference on the Importance of Learning Professional Foreign Languages for Communication between Cultures, Celje, Slovenia, 2012
9.	Gak D, Bogdanović V, Mirović I, : Questionnaire - an instrument for collecting valuable data from teachers of business English courses, 5th International Conference on the Importance of Learning Professional Foreign Languages for Communication between Cultures, Celje, Slovenia, 2012

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	0			
Total of SCI(SSCI) list papers :	0			
Current projects :	Domestic :	0	International :	0

Science, arts and professional qualifications

Name and last name:	Nimrihter D. Miroslav
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.06.1976
Scientific or art field:	Electroenergetics

Academic carieer	Year	Institution	Field
Academic title election:	2009		Electroenergetics
PhD thesis	1994	School of Electrical Engineering - Beograd	Electroenergetics
Magister thesis	1984	School of Electrical Engineering - Beograd	Electroenergetics
Bachelor's thesis	1975	School of Electrical Engineering - Beograd	Electroenergetics

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

	ID	Course name	Study programme name, study type
1.	EE309	Power Distribution Systems	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EE409	High Voltage Engineering	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	EE413	Power System Reliability	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	EE309	Power Distribution Systems	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	ESI020	Data structures and algorithms in power systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
6.	DE106S	Reliability of Power Systems	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
7.	DE112S	Non-deterministic Modelling	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
8.	EE560	Planiranje elektroenergetskih sistema	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
9.	EE409M	High Voltage Engineering	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
10.	EM435A	Electronic Systems in Oil Industry	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
11.	EM437A	The application of electronic systems in clean and renewable energy	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
12.	ESI022	Quality control and assurance of electric power software	(ES0) Power Software Engineering, Master Academic Studies
13.	ESI024	Applied algorithms in power systems	(ES0) Power Software Engineering, Master Academic Studies
14.	ESI025	Simulation of Power Greed critical mission systems	(ES0) Power Software Engineering, Master Academic Studies
15.	ESI027	Advanced cloud computing in power systems	(ES0) Power Software Engineering, Master Academic Studies
16.	ESI030	Distributed Software Architectures for Smart Energy Grids	(ES0) Power Software Engineering, Master Academic Studies
17.	ESI031	Business Intelligence and Data Warehouse Systems in Power Systems	(ES0) Power Software Engineering, Master Academic Studies
18.	ESI035	Computer graphic algorithms for smart grid systems	(ES0) Power Software Engineering, Master Academic Studies
19.	ESI038	Service oriented architectures in Smart Grid	(ES0) Power Software Engineering, Master Academic Studies
20.	DE106	Reliability of Power Systems	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
21.	DE112	Non-deterministic Modelling	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

Representative refferences (minimum 5, not more than 10)

1.	Gušavac S., Nimrihter M., Gerić Lj.: ESTIMATION OF OVERHEAD LINE CONDITION, , Electric Power System Research, 2008, Vol. 78, pp. 566-583
2.	Desnica V., Živanov Lj., Aleksić S., Nimrihter M.: Comparative Characteristics of Thick-Film Integrated LC Filters, IEEE Transactions on Instrumentation and Measurement, 2002, Vol. 51, No 4, pp. 570-576, ISSN 0018-9456
3.	Nimrihter M.: Comparative Analysis of Security Concepts for Urban Meddium Voltage Cable Distribution Networks, Electric Power System Research, 1994, No 29, pp. 43-50, ISSN 0378-7796
4.	Popović D., Glamočić Lj., Nimrihter M.: The Optimal Automation Level of Medium Voltage Distribution Networks, International Journal of Electrical Power
5.	Nimrihter M.: Comparative Analysis of Security Concepts for Urban Medium Voltage Cable Distribution Networks, Electric Power Research, 1994, No 29, pp. 43-50
6.	Nimrihter M., Živanov M., Gušavac S.: FUEL CELLS – ECOLOGICAL COGENERATIVE ENERGY SOURCES, 9th INTERNATIONAL SYMPOSIUM INTERDISCIPLINARY REGIONAL RESEARCH – ISIRR 2007, , Novi Sad, 21-22 Jun, 2007
7.	*****Živanov M., Nimrihter M., Živanov Lj.: Energetska efikasnost sistema sa gorivnim ćelijama Naziv skupa: Međunarodno savetovanje ENERGETIKA 2007 , UDK: UDC 621.311.29.001.5/.004:620.92
8.	*****Živanov M., Nimrihter M., Živanov Lj.: Efekti primene gorivnih ćelija Naziv skupa: Međunarodno savetovanje ENERGETIKA 2007 , UDK: 621.311.29.001.5/.004:620.92
9.	*****Nimrihter M., Gušavac S., Lukić J., Kuljić R.: Uticaj distribuiranih generatora na rizik u SN DEM, edukativni softver za potrebe CEFES magistarski studija Naziv skupa: 14th International Symposium on Power Electronics - Ee 2007 , UDK: 621.38; 620.9(082)
10.	*****Nimrihter M., Gušavac S., Lukić J.: Uticaj distribuiranih protočnih elektrana na rizik napajanja potrošača Naziv skupa: 14. International Symposium on Power Electronics-Ee2007 , UDK: 621.38; 620.9(082)

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

Quotation total :	22			
Total of SCI(SSCI) list papers :	5			
Current projects :	Domestic :	3	International :	12

Science, arts and professional qualifications

Name and last name:	Pavlica N. Vladimir
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.11.2012
Scientific or art field:	Computer Science

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Computer Science
PhD thesis	1997	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Magister thesis	1991	School of Electrical Engineering - Beograd	Automatic Control and System Engineering
Bachelor's thesis	1989	Faculty of Technical Sciences - Novi Sad	Unknown

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

	ID	Course name	Study programme name, study type
1.	ESI003	Electric power software development	(ES0) Power Software Engineering, Undergraduate Academic Studies
2.	ESI006	Introduction to critical mission software for power grids	(ES0) Power Software Engineering, Undergraduate Academic Studies
3.	ESI012	Smart Grid Networks	(ES0) Power Software Engineering, Undergraduate Academic Studies
4.	ESI014	Integration of power systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
5.	ESI016	Smart Grid Programming	(ES0) Power Software Engineering, Undergraduate Academic Studies
6.	ESI043	Optimization Methods in Power Engineering	(ES0) Power Software Engineering, Undergraduate Academic Studies
7.	ESI022	Quality control and assurance of electric power software	(ES0) Power Software Engineering, Master Academic Studies
8.	ESI024	Applied algorithms in power systems	(ES0) Power Software Engineering, Master Academic Studies
9.	ESI025	Simulation of Power Greed critical mission systems	(ES0) Power Software Engineering, Master Academic Studies
10.	ESI027	Advanced cloud computing in power systems	(ES0) Power Software Engineering, Master Academic Studies
11.	ESI029	Simulation of power grid critical mission systems	(ES0) Power Software Engineering, Master Academic Studies
12.	ESI030	Distributed Software Architectures for Smart Energy Grids	(ES0) Power Software Engineering, Master Academic Studies
13.	ESI031	Business Intelligence and Data Warehouse Systems in Power Systems	(ES0) Power Software Engineering, Master Academic Studies
14.	ESI034	Multi-tier applications development in Smart Grids	(ES0) Power Software Engineering, Master Academic Studies
15.	ESI035	Computer graphic algorithms for smart grid systems	(ES0) Power Software Engineering, Master Academic Studies
16.	ESI037	Smart Grid security and safety	(ES0) Power Software Engineering, Master Academic Studies
17.	ESI038	Service oriented architectures in Smart Grid	(ES0) Power Software Engineering, Master Academic Studies

Representative refferences (minimum 5, not more than 10)

1. D. Petrovački, S. Odri, A. Erdeljan, V. Pavlica, J. Grbović: “Research and Industrial Activities of the Laboratory for Automatic Control”, (“Contemporary Problems in Power Engineering” edited by D. Gvozdenac, J. Xypteras, M. Dimić), Fakultet tehničkih nauka, Novi Sad, 1996., (S print), ISSN-0354-8449 CIP- Katalogizacija u publikaciji Biblioteke matice srpske, pp. 299-318.
2. S.Odri, V.Pavlica, N.Jorgovanović, J.Grbović: “Hardware elements of scada neuron”, (“Contemporary Problems in Power Engineering” edited by D. Gvozdenac, J. Xypteras, M. Dimić), Fakultet tehničkih nauka, Novi Sad, 1996., (S print), ISSN-0354-8449 CIP- Katalogizacija u publikaciji Biblioteke matice srpske, pp. 333-336.
3. V.Pavlica, D.Petrovački: "About simple fuzzy control and fuzzy control based on fuzzy relational equations", International Journal FUZZY SETS AND SYSTEMS, Elsevier-Science, Amsterdam, 1999, Vol 101, pp 41-47.
4. V.Pavlica, D.Petrovački, S.Odri: “Optimal PID-fuzzy hybrid controller", Journal of Automatic Control, Faculty of Electrical Engineering, Beograd, Vol 7, pp 27-32, 1997.

Representative refferences (minimum 5, not more than 10)

5.	V. Pavlica, D. Petrovački, “Temperature control with PID-Fuzzy Hybrid Controller”, 14th ISPE/IEE/IFAC International conference on CAD/CAM, robotics & factories of the future CARS & FOF’98, pp. 165-170, Pereira, Colombia, 1998.
6.	V. Pavlica, D. Petrovački, “An Application of PID-Fuzzy Hybrid Controller”, Proceeding of the 1998 IEEE International conference on control application, Trieste, Italy, 1998, pp 629-632.
7.	V.Pavlica, A.Erdeljan, T.Popović: "Some variants of the genetic algorithm", World congress on neural network WCNN'96, San Diego, CA, 1996.
8.	V.Pavlica, D.Petrovački, T.Popović, S.Odri: "The PID-fuzzy hybrid controller", Proceeding of the 12th ISPE/IEE/IFAC International conference on CAD/CAM, robotics & factories of the future CARS & FOF’96, London, UK, 1996, pp 375-380.
9.	V.Pavlica, D.Petrovački, A.Erdeljan, T.Popović: "Some Modifications of the Genetic Optimization Algorithm" The second international Conference on Technical Informatics CONTI'96, Timisoara, Romania, 1996.
10.	V. Pavlica, A. Erdeljan: “The GLS learning algorithm for multilayer neural network”, 1995 IEEE International conference on neural networks, ICNN’95, Perth, Australia, 1995.

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

Quotation total :	14			
Total of SCI(SSCI) list papers :	1			
Current projects :	Domestic :	0	International :	0

Science, arts and professional qualifications

Name and last name:	Pekarić-Nađ M. Neda
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.07.1978
Scientific or art field:	Theoretical Electrotechnics

Academic carieer	Year	Institution	Field
Academic title election:	2001	Faculty of Technical Sciences - Novi Sad	Theoretical Electrotechnics
PhD thesis	1984	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
Magister thesis	1981	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
Bachelor's thesis	1978	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering

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

	ID	Course name	Study programme name, study type
1.	E216	Fundamentals of Electrical Engineering	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies
2.	I087	Electrical Engineering in Industrial Engineering	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
3.	E105	Fundamentals of Electrical Engineering 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
4.	E110	Fundamentals of Electrical Engineering 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
5.	II1007	Fundamental electrical engineering	(I10) Industrial Engineering, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies
6.	II1010	Control of technical systems	(I10) Industrial Engineering, Undergraduate Academic Studies
7.	IM1022	Fundamentals of technical systems control	(I20) Engineering Management, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
8.	URZP12	Introduction to electrical engineering	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
9.	DE208S	Selected Chapters on Electromagnetic Compatibility	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
10.	DE408S	Selected chapters inl electromagnetics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
11.	URZP55	Fire and Explosion Protection due to Electricity	(ZP1) Disaster Risk Management and Fire Safety, Master Academic Studies
12.	DE208	Selected Chapters on Electromagnetic Compatibility	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
13.	DE408	Selected Chapters in Electromagnetics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Neda Pekarić-Nadj, Vera Bajović, “Izbor rešenih problema iz Osnova elektrotehnike”, Gradjevinska knjiga, Beograd, 2007
2. Neda Pekarić-Nadj, Dejana Herceg, “Osnovi elektrotehnike za studente Računarskog odseka” edicja FTN, Novi Sad, 2005
3. Nikolajević S, Pekarić-Nadj N, Dimitrijević R, "Optimization of cable terminations", IEEE Trans. PWRD,Vol.12, No 2, 1997 p.p. 527-532
4. Nikolajević S, Pekarić-Nadj N, Dimitrijević R, "A new concept in construction of cable terminations for medium voltages", IEEE Trans. Power Delivery, Volume 13, No. 3, July 1998, p.p. 712-718

Representative refferences (minimum 5, not more than 10)

5.	Šećerov Sokolović R., Sokolović S., Mihajlović Đ., Gelei T., Pekarić Nađ N., Šević S.: Effect of pulsed electromagnetic field on crude oil rheology, Industrial and Engineering Chemistry Research, 1998, Vol. 37, No 12, pp 4828-4834, ISSN 0888-5885
6.	Buranj N., Milutinov M., Pekarić Nađ N.: Uređaj za izlaganje malih tečnih uzoraka magnetskom polju, 2011
7.	Juhas A., Pekarić Nađ N., Herceg D.: Estimation of Human Exposure to Combined RF EM Field of Multiple Antennas, 5. International PhD Seminar on Computational Electromegnetics and Optimization inElectrical Engineering CEMOEE, Sofija: Proceedings of International PhD Seminar on Computational electromagnetics and optimization in electrical engineering – CEMOEE 2010, Sofia, Bulgaria, 10-13 September, 2010, 10-13 Septembar, 2010, pp. 27-31, ISBN 978-954-438-856-0
8.	Herceg D., Pekarić Nađ N., Juhas A.: Shield shape influence on a coreless probe inductance, 5. International PhD Seminar on Computational Electromegnetics and Optimization inElectrical Engineering CEMOEE, Sofija: Proceedings of International PhD Seminar on Computational electromagnetics and optimization in electrical engineering – CEMOEE 2010, Sofia, Bulgaria, 10-13 September, 2010, 10-13 Septembar, 2010, pp. 18-21, ISBN 978-954-438-856
9.	Milutinov M., Juhas A., Pekarić Nađ N.: Power line currents data extraction from magnetic field measurements, 17. International Symposium on Electrical Apparatus and Technologies – SIELA, Bourgas, 28-30 Maj, 2012, pp. 226-231, ISBN 1314-6297
10.	Dimitrijević R., Tasić D., Raičević N., Aleksić S., Pekarić Nađ N.: Analysis of a MV XLPE Cable Termination Design with Embedded Electrodes, Facta universitatis - series: Electronics and Energetics, 2010, Vol. 23, No 1, pp. 99-117, ISSN 0353-3670

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

Quotation total :	16			
Total of SCI(SSCI) list papers :	3			
Current projects :	Domestic :	2	International :	1

Science, arts and professional qualifications

Name and last name:	Pjevalica U. Nebojša
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.08.1997
Scientific or art field:	Electrical Measurements

Academic carieer	Year	Institution	Field
Academic title election:	2008	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
PhD thesis	2007	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
Magister thesis	2001	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
Bachelor's thesis	1995	Faculty of Technical Sciences - Novi Sad	Electrical Measurements

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

	ID	Course name	Study programme name, study type
1.	E130	Electrical Measurements	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
2.	E227A	Logic Design of Computer Systems 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	E244	Selected Chapters in Physical Architecture Design	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	BMI115	Biomedical Engineering in Cognitive Neuroscience	(BM0) Biomedical Engineering, Undergraduate Academic Studies
5.	EI410	Biophysics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	EIMET	Metrology	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	BMIM5A	Virtual measurement instrumentation in biomedicine	(BM0) Biomedical Engineering, Master Academic Studies
8.	BMIM5B	Design and development of medical devices and systems	(BM0) Biomedical Engineering, Master Academic Studies
9.	BMIM5D	Magnetic-Resonance Devices in Biomedicine	(BM0) Biomedical Engineering, Master Academic Studies
10.	BMIM5E	Distributed measurement and acquisition systems in biomedicine	(BM0) Biomedical Engineering, Master Academic Studies

Representative refferences (minimum 5, not more than 10)

1. A.Kozarev, N. Pjevalica, V. Macar, D. Roncevic, O. Varga-Silberholc, "Some Issues in Multimedia/B-ISDN Based Telecommunication Network Evolution - General Model", Telsiks"97, Vol2, pp.425-428, Nis, Yugoslavia 1997.
2. A.Kozarev, M. Nikolic, D. Milidrag, N. Pjevalica, "An Integrated Approach to Public Telecommunication Network in Multimedia/B-ISDN Environment", Telsiks"97, Vol2, pp.421-424, Nis, Yugoslavia 1997.
3. D. Zrilic, N. Pjevalica, "Frequency Deviation Measurement Based on Two - Arm Delta - Sigma Modulated Bridge", IMTC2001 IEEE Instrumentation and Measurement Technology Conference, pp.756-760, Budapest, Hungary 2001.
4. D. Zrilic, N. Pjevalica, "Stochastic Signal Processing Using Delta - Sigma Modulation", Proceedings of the Fifth Biannual World Automation Congress WAC 2002, Vol 14, pp653-658, Orlando, Florida, USA 2002.
5. B. Antić, N. Pjevalica, A New Approach to Power Grid Measurements - Measuring in Frequency Domain, JUKO CIRED 2006, Zlatibor 17.-20. oktobar.
6. Djuro G. Zrilic, Nebojsa U. Pjevalica, "Frequency Deviation Measurement Based on Two-Arm D-S Modulated Bridge" IEEE Transactions on instrumentation and measurement, vol. 53, no.2, april 2004, pp.293-299.
7. N. Pjevalica, V. Pjevalica, "Merenja na visokonaponskoj distributivnoj mreži primenom digitalnih mernih pretvarača", Simpozijum o merenjima i mernoj opremi, Zbornik radova, knjiga prva, pp505-513, Beograd, Yugoslavia,1998.

Representative refferences (minimum 5, not more than 10)	
8.	V. Vujičić, N. Pjevalica, "Stohastička realizacija digitalnih filtara", D.O.G.S. 2000 zbornik radova, pp.60-63, Novi Sad, Yugoslavia 2000
9.	N. Pjevalica, "Digitalno merilo efektivne vrednosti", Kongres metrologa Jugoslavije 2000, (CD-ROM zbornik radova), Novi Sad, Yugoslavia 2000.
10.	J. Tomić, N. Pjevalica, Integrisano merilo harmonika, Kongres metrologa, Beograd, 2005 godina.

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

Science, arts and professional qualifications

Name and last name:	Popov B. Srđan
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	05.09.2001
Scientific or art field:	Applied Computer Science and Informatics

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
Magister thesis	2007	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
Bachelor's thesis	1999	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering

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

	ID	Course name	Study programme name, study type
1.	E111	Programming Languages and Data Structures	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	E214	Programming Languages and Data Structures	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies
3.	URZP11	Fundamentals of Information Technologies	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
4.	URZP23	Applied Information Technologies	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
5.	URZP44	Application of geoinformation technology in risk management	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
6.	IMDS45	Application of information and satellite technology in risk management	(I22) Engineering Management, Specialised Academic Studies
7.	E2534	Data Compression	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
8.	DRNI01	Selected Topics in Computer Programming	(E20) Computing and Control Engineering, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
9.	IMDR45	Application of Information and Satellite Technologies in Risk Management	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Jovčić N., Radonić (Jakšić) J., Turk Sekulić M., Vojinović-Miloradov M., Popov S.: Identification of emission sources of particle-bound polycyclic aromatic hydrocarbons in the vicinity of the industrial zone of the city of Novi Sad DOI: 10.2298/HEMIND120113062J, Hemijska industrija, 2012, ISSN 0367-598X
2.	Ćosić Đ., Popov S., Sakulski D., Pavlović A.: Geo-Information Technology for Disaster Risk Assessment, Acta Geotechnica Slovenica, 2011, Vol. 8, No 2011/1, pp. 64-74, ISSN 1854-0171
3.	Malbaški D., Kupusinac A., Popov S.: The Impact of Coding Style on the Readability of C Programs, TTEM. Tehnics tehnologies education management, 2011, Vol. 6, No 4, pp. 1073-1082, ISSN 1840-1503
4.	Sakulski D., Ćosić Đ., Popov S.: Implementation of Innovative Technologies for Disaster Risk Reduction, 1. International Conference Natural Hazards, Novi Sad: University of Novi Sad, Faculty of Science, 5 Maj, 2012, pp. 15-16, ISBN 978-86-7031-276-0
5.	Sakulski D., Ćosić Đ., Popov S., Pavlović A., Laban M.: Disaster risk management and fire safety, 1. International conference Protection, Ecology, Security, Bar: Fakultet za pomorstvo Kotor, 24-26 Maj, 2012, pp. 75-81
6.	Simić J., Popov S., Ćosić Đ., Sakulski D., Novaković T., Popović Lj., Pavlović A., Luhović A.: The aspect of bringing data in spatial relationship during the process of teaching at the subject “Disaster risk management” , UDK: 37.01:004 (082)
7.	Pavlović A., Ćosić Đ., Popov S., Kolaković S.: Indikatori praćenja hazardnih pojava poplave i suše u cilju poboljšanja planiranja melioracija, Tematski zbornik radova "Melioracije 07 - stanje i perspektive-", 2012, No 12, pp. 136-146, ISSN 978-86-7520-107-6, UDK: 626.8(082)

Representative refferences (minimum 5, not more than 10)	
8.	Popović Lj., Popov S., Ćosić Đ., Sakulski D.: Impact of Visualization on Data Availability, UDK: CIP je dostupan u Univerzitetskoj biblioteci Rijeke pod brojem 121219001
9.	Alargić I., Badnjarević I., Vrtunski M., Popov S.: Setting the platform for testing the quality of DTM in the format of DTM-ASCII , 8. IEEE International Symposium on Intelligent Systems and Informatics (SISY), Subotica, , pp. 253-256, ISBN 978-1-4244-7395-3
10.	Popov S., Pavlović A., Ćosić Đ., Hlebjan M.: Interfacing Data Structures of Legacy Systems, 8. IEEE International Symposium on Intelligent Systems and Informatics (SISY), Subotica: 2010 IEEE , , pp. 409-411, ISBN 978-1-4244-7395-3

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	0			
Total of SCI(SSCI) list papers :	3			
Current projects :	Domestic :	2	International :	0

Science, arts and professional qualifications

Name and last name:	Popović V. Miroslav
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	21.03.1985
Scientific or art field:	Computer Engineering and Computer Communication

Academic carieer	Year	Institution	Field
Academic title election:	2002	Faculty of Technical Sciences - Novi Sad	Computer Engineering and Computer Communication
PhD thesis	1990	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
Magister thesis	1988	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
Bachelor's thesis	1984	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering

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

	ID	Course name	Study programme name, study type
1.	E23A2	Real Time System Programming 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E23M	Real Time System Programming 2	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
3.	SE0032	Parallel Programming	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
4.	SE1006	Object Oriented Programming 2	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
5.	SERT01	System Programming 1	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
6.	RT57	Inter Computer Communications and Computer Networks 2	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
7.	RT511	Practicum in computer engineering and computer communications	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
8.	DAU002	Selected Chapters in Computing	(F00) Graphic Engineering and Design, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies
9.	DRT01	Selected Chapters in Real Time Systems Software	(E20) Computing and Control Engineering, Doctoral Academic Studies
10.	DAU014	Selected Topics in Computing	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Vladimir Kovačević, Miroslav Popović, Sistemska programska podrška u realnom vremenu 1: Programski alati i paralelno programiranje, Univerzitet u Novom Sadu, Fakultet tehničkih nauka, 2011.
2.	Vladimir Kovačević, Miroslav Popović, Sistemska programska podrška u realnom vremenu 2: Operativni sistemi za rad u realnom vremenu, Univerzitet u Novom Sadu, Fakultet tehničkih nauka, 2011.

Representative refferences (minimum 5, not more than 10)

3.	Miroslav Popović, Communication Protocol Engineering, CRC Press, Boca Raton, Florida, 2006, ISBN 0849398142.
4.	Čapko D., Erdeljan A., Popović M., Švenda G.: An Optimal Relationship-Based Partitioning of Large Datasets, LNCS, Springer Verlag, 2010, str. 555-558, ISBN 978-3-642-15575-8
5.	Popović M., Bašičević I.: Test case generation for the task tree type of architecture, Information and Software Technology, Elsevier, 2010, Vol. 52, No 6, pp. 697-706, ISSN 0950-5849
6.	Popović M., Kuprešanin I., Bašičević I.: Generic method for statistical testing of parallel programs based on task trees, Scientific Research and Essays, 2012, Vol. 7, No 11, pp. 1992-2248, ISSN 1992-2248
7.	Čapko D., Erdeljan A., Švenda G., Popović M.: A Dynamic Repartitioning of Large Data Model in Distribution Management Systems, Electronics and electrical engineering, 2012, Vol. 5, No 121, pp. 1392-1215, ISSN 1392-1215
8.	Čapko D., Erdeljan A., Popović M., Švenda G.: An Optimal Initial Partitioning of Large Datasets in Utility Management Systems, Journal of Advances in Electrical and Computer Engineering, 2011, Vol. 11, No 4, pp. 41-46, ISSN 1582-7445
9.	Bašičević I., Kukolj D., Popović M.: On the application of fuzzy-based flow control approach to High Altitude Platform communications, Applied Intelligence, 2010, Vol. 2093, pp. 75-84, ISSN 1573-7497
10.	Bašičević I., Popović M.: Use of SIP Protocol in Development of Telecom Services , Journal of The Communications Network, 2008, Vol. 3, No October, ISSN 1477-4739

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

Quotation total :	216			
Total of SCI(SSCI) list papers :	11			
Current projects :	Domestic :	1	International :	1

Science, arts and professional qualifications

Name and last name:	Popović S. Dragan
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	-
Scientific or art field:	Electroenergetics

Academic carieer	Year	Institution	Field
Academic title election:	2004	Faculty of Technical Sciences - Novi Sad	Electroenergetics
PhD thesis	1995	School of Electrical Engineering - Beograd	Electroenergetics
Magister thesis	1990	School of Electrical Engineering - Beograd	Electroenergetics
Bachelor's thesis	1985	Faculty of Technical Sciences - Novi Sad	Electroenergetics

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

	ID	Course name	Study programme name, study type
1.	EE415A	Distribution Network Analysis and Management	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EE420	Exploitation of Distribution Systems / Networks	(ES0) Power Software Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	ESI011	Software security and safety in power engineering	(ES0) Power Software Engineering, Undergraduate Academic Studies
4.	ESI014	Integration of power systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
5.	DE104S	Regulation and Distribution Network Management	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
6.	DE205S	Distribution networks development pllanning	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
7.	DE308S	Facility Planning and Optimization of Distribution Networks	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
8.	EE500	Modelling in Power Systems	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
9.	EE504	Management Systems in Power Engineering – EMS and DMS	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
10.	EE562	Power System Exploitation	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
11.	DE217S	PES Analysis 4	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
12.	DE217	PES Analysis 4	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
13.	DE308	Facility Planning and Optimization of Distribution Networks	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Lendak I., Erdeljan A., Popović D.: Algorithm for cataloguing topologies in the Common Information Model (CIM), Computers
2. Janjić A., Popović D.: Selective Maintenance Schedule of Distribution Networks Based On Risk Management Approach, IEEE Trans. on Power Systems, 2007, Vol. 22, No 2, pp. 597-604
3. Popović D., Varga E., Perlić Z.: Extension of the Common Information Model With a Catalog of Topologies, IEEE Transactions on Power Systems, 2007, Vol. 22, No 2, pp. 770-777
4. Popović D., Popović Z.: A Risk management Procedure for Supply Restoration in Distribution Networks, IEEE Transactions on Power Systems , IEEE Transactions on Power Systems, 2004, Vol. 19, No 1, pp. 221-229
5. Popović D., Ćirić R.: A Multi-Objective Algorithm for Distribution Networks Restoration, IEEE Trans. on Power Delivery, 1999, Vol. 14, No 3, pp. 1134-1141
6. Popović D., Levi V., Gorečan Z.: Coordination of Emergency Secondary Voltage Control and Load Shedding to Prevent Voltage Instability, Transmission and Distribution , IEE Proceedings -Generation, Transmission and Distribution, 1997, No 3, pp. 293-300
7. Levi V., Popović D.: Integrated Methodology for Transmission and Reactive Power Planning , IEEE Trans. on Power Systems, 1996, Vol. 6, No 4, pp. 1493-1499
8. Popović D., Ćalović M., Levi V.: Voltage/Reactive Security Analysis in Power Systems with Automatic Secondary Voltage Control, IEE Proceedings -Generation, Transmission and Distribution, 1994, No 3, pp. 177-183

Representative refferences (minimum 5, not more than 10)	
9.	Strezoski V., Popović D., Bekut D., Švenda G.: DMS – Basis for Increasing of Green Distributed Generation Penetration in Distribution Networks, Thermal Science, 2012, Vol. 1, No 16, pp. 189-203, ISSN 0354-9836
10.	Popović D., Glamočić Lj., Nimrihter M.: The Optimal Automation Level of Medium Voltage Distribution Networks, International Journal of Electrical Power

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	185			
Total of SCI(SSCI) list papers :	15			
Current projects :	Domestic :	0	International :	0

Science, arts and professional qualifications

Name and last name:	Popović N. Željko
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.10.2012
Scientific or art field:	Electroenergetics

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Electroenergetics
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Electroenergetics
Magister thesis	1999	School of Electrical Engineering - Beograd	Electroenergetics
Bachelor's thesis	1988	Faculty of Technical Sciences - Novi Sad	Electroenergetics

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

	ID	Course name	Study programme name, study type
1.	EE420	Exploitation of Distribution Systems / Networks	(ES0) Power Software Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	DE205S	Distribution networks development pllanning	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
3.	DE205	Planning the Distribution Networks Development	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
4.	DE306	Load Management in PES	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. D. S. Popović, Ž. N. Popović, "A Risk management Procedure for Supply Restoration in Distribution Networks", IEEE Trans. on Power Systems, Vol. 19, No.1, pp. 221-228, February 2004.
2. Ž. N. Popović, D. S. Popović, “Graph theory based formulation of multi-period distribution expansion problems”, Electric Power Systems Research, Vol. 80, No. 10 , pp. 1256-1266, October 2010.
3. Ž. Popovic, V. Kerleta, , "Expansion planning of distribution networks using simulated annealing technique", in Proceedings of the 21th conference on electricity distribution CIRED, June 2011.
4. Ž. Popovic, D. S. Popovic, , "A Graph Theory Based Formulation of Multi-Period Distribution Expansion Planning Problems", in Proceedings of the 20th conference on electricity distribution CIRED, June 2009.
5. Ž. Popovic, D. S. Popovic, V. Dj. Kerleta, "Risk Management Based Procedure for Multi-Stage Expansion Planning of Distribution Networks Under Uncertainty", in Proceedings of the 19th conference on electricity distribution CIRED, May 2007.
6. Ž. Popovic, D. S. Popovic, Vojin Dj. Kerleta "A Novel Methodology for Multi-Year Planning of Large-Scale Distribution Networks", in Proceedinfs of the 18th conference on electricity distribution CIRED, May 2005.
7. Ž. Popovic, D. S. Popovic "A Dynamic Programming Based Procedure for Distribution Network Planning", in Proceedings of the 1th regional conference on electricity distribution JUKO CIRED, Octobar 2004.
8. Ž. Popovic, D. S. Popovic, "Direct Load Control as a Market-Based Program in Deregulated Power Industries", in Proceedings of the IEEE Bologna Power Tech’03, June 2003
9. Ž. Popovic, D. S. Popovic, "A Novel Decomposition Procedure for Distribution Network Planning", in Proceedings of the 38th Universities Power Engineering Conference UPEC 2003, pp. 609-612, September 2003..
10. D. S. Popovic, Ž. Popovic, "Distribution Network Restoration Supply Based on Fuzzy Risk Management", in Proceedings of the 17th conference on electricity distribution CIRED, May 2003.

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

Quotation total :	26			
Total of SCI(SSCI) list papers :	3			
Current projects :	Domestic :	0	International :	0

Science, arts and professional qualifications

Name and last name:	Radivojević D. Radoš
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.09.1991
Scientific or art field:	Sociology

Academic carieer	Year	Institution	Field
Academic title election:	2001	Faculty of Technical Sciences - Novi Sad	Sociology
PhD thesis	1990	Faculty of Philosophy - Novi Sad	Sociology
Magister thesis	1983	Faculty of Philosophy - Beograd	Sociology
Bachelor's thesis	1973	Faculty of Philosophy - Beograd	Sociology

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

	ID	Course name	Study programme name, study type
1.	E106	Sociology of Technique	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
2.	E251	Sociological Aspects of Technical Development	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
3.	E251A	Sociological Aspects of Technical Development	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies
4.	F108	Sociology of Culture	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
5.	GG02	Sociology and Economics in Civil Engineering	(G00) Civil Engineering, Undergraduate Academic Studies
6.	GG105	Sociology of Work	(G00) Civil Engineering, Undergraduate Academic Studies
7.	M318	Sociology of Technique	(F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (H00) Mechatronics, Undergraduate Academic Studies
8.	Z310	Social Ecology	(Z20) Environmental Engineering, Undergraduate Academic Studies
9.	A206	Sociology and Economy of the Built Enviroment	(A00) Architecture, Undergraduate Academic Studies
10.	ASO311	Sociology of Art and Culture	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
11.	ETI41	Sociology of Technique	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
12.	IM1003	Sociology of Work	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
13.	A005S	Urban sociology and economics: selected chapters	(A00) Architecture, Specialised Academic Studies
14.	ZRMI3A	Sociological and Legal Aspects of Occupational Safety	(Z01) Safety at Work, Master Academic Studies
15.	A005	Urban Sociology and Economics – Selected Chapters	(A00) Architecture, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Sociologija nauke, Stylos, Novi Sad, 1997.
2.	Tehnika i društvo, Fakultet tehničkih nauka, Novi Sad, 2003.
3.	Sociologija naselja, Fakultetet tehničkih nauka, Novi Sad, 2004.

Representative refferences (minimum 5, not more than 10)	
4.	Fakultet tehničkih nauka-Razvoj, delatnost, rezultati, Novi Sad, 2006.
5.	Karakteristike inženjersko ekonomskog proučavanja organizacije rada, Sociološki pregled br. 1-2, Beograd, 1984.
6.	Socijalizam kao neproduktivni sistem, Sociološki pregled br 1-2, Beograd, 1994.
7.	Karakteristike empirijskog proučavanja organizacije rada, Sociologija br 4, 1985.
8.	Milićeva sociogija saznanja, Sociogija br 4, Beograd, 1997.
9.	Socio-psychological consequnences of the flood-an Example of Jasa Tomic, Editors:Stevan Bruk&Tiosav Petkovic, Belgrade, 2006.
10.	Gordana Vuksanović, Radoš Radivojević, THE ROLE OF CHILDREN IN INVESTIGATING AND ELIMINATING THE CONSEQUENCES OF NATURAL DISASTERS

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	0			
Total of SCI(SSCI) list papers :	3			
Current projects :	Domestic :	2	International :	1

Science, arts and professional qualifications

Name and last name:	Rakić S. Predrag
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.01.2003
Scientific or art field:	Applied Computer Science and Informatics

Academic carieer	Year	Institution	Field
Academic title election:	2011	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Magister thesis	2006	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Bachelor's thesis	2001	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics

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

	ID	Course name	Study programme name, study type
1.	E225	Operating Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies
2.	EE301	Operating Systems and Competitive Programming	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	ISIT04	Osnove računara	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
4.	SE0014	Computer organisation	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
5.	SE0031	Operating Systems	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
6.	SE0033	Generic and Meta Programming	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
7.	SEM099	Programm Optimization	(SE0) Software Engineering and Information Technologies, Master Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Rakić P., Milašinović D., Živanov Ž., Suvajdžin Z., Nikolić M., Hajduković M.: MPI–CUDA parallelization of a finite-strip program for geometric nonlinear analysis: A hybrid approach, Advances in Engineering Software, 2011, Vol. 42, No 5, pp. 273-285, ISSN 0965-9978
2.	Hajduković M., Milašinović D., Nikolić M., Rakić P., Živanov Ž., Stričević L.: Scope of MPI/OpenMP/CUDA Parallelization of Harmonic Coupled Finite Strip Method Applied on Large Displacement Stability Analysis of Prismatic Shell Structures, Computer Science and Information Systems (ComSIS), 2012, Vol. 9, No 2, pp. 741-761, ISSN 1820-0214
3.	Živanov Ž., Rakić P., Hajduković M.: COLIBROS: Educational operating system, Computer Science and Information Systems (ComSIS), 2010, Vol. 7, No 4, pp. 705-719, ISSN 1820-0214, UDK: 004.45
4.	Rakić P., Stričević L., Suvajdžin Z.: Statically Typed Matrix: in C library, 5. Balkan Conference in Informatics, Novi Sad, 16-20 Septembar, 2012
5.	Stričević L., Rakić P., Hajduković M.: Finite Strip Method Construction Analysis Program Execution Speed Improvement on an MPI Cluster by Using Multiple Network Links, 20. Telekomunikacioni forum TELFOR, Beograd: Telecommunications Society, 20-22 Novembar, 2012, pp. 1405-1408, ISBN 978-1-4673-2982-8
6.	Živanov Ž., Rakić P., Hajduković M.: Wireless sensor network application programming and simulation system, Computer Science and Information Systems (ComSIS), 2008, Vol. 5, No 1, pp. 109-126, ISSN 1820-0214
7.	Živanov Ž., Rakić P., Hajduković M.: Using code generation approach in developing kiosk applications, Computer Science and Information Systems (ComSIS), 2008, Vol. 5, No 1, pp. 41-59, ISSN 1820-0214
8.	Milašinović D., Živanov Ž., Rakić P., Suvajdžin Z., Nikolić M., Hajduković M., Borković A., Milaković I.: A Finite-Strip Analysis of Nonlinear Shear-Lag Effect Supported by Automatic Visualization
9.	Milašinović D., Borković A., Živanov Ž., Rakić P., Hajduković M., Furtula B.: Large Displacement Stability Analysis of Columns using the Harmonic Coupled Finite-Strip Method

Representative refferences (minimum 5, not more than 10)	
10.	Rakić P., Stričević L., Živanov Ž., Suvajdžin Z., Hajduković M.: Računarska učionica - iskustva u pripremi i korišćenju, INFO M, Beograd, 2007, Vol. 6, No 21, pp. 9-13, ISSN 1450-6254, UDK: 659.25

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	0			
Total of SCI(SSCI) list papers :	5			
Current projects :	Domestic :	1	International :	0

Science, arts and professional qualifications

Name and last name:	Samardžija M. Dragan
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.11.2008
Scientific or art field:	Computer Engineering and Computer Communication

Academic carieer	Year	Institution	Field
Academic title election:	2008	Faculty of Technical Sciences - Novi Sad	Computer Engineering and Computer Communication
PhD thesis	2004	Rutgers University - Newark, New Jersey	Electrical and Computer Engineering
Magister thesis	2000	Rutgers University - Newark, New Jersey	Electrical and Computer Engineering
Bachelor's thesis	1996	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering

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

	ID	Course name	Study programme name, study type
1.	E23B	Fundamentals of Computer Networks 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E23B1	Computer Network Fundamentals 2	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	SE0015	Prenos podataka i računarske komunikacije	(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
4.	RT511	Practicum in computer engineering and computer communications	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
5.	DRT08	Selected Topics in Wireless Computer Communications	(E20) Computing and Control Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Unquantized and Uncoded Channel State Information Feedback in Multiple Antenna Multiuser Systems, IEEE Transactions on Communication, 2006, Vol. 54, str. 1335- 1345
2.	Blind Successive Interference Cancellation for DS-CDMA Systems, IEEE Transactions on Communications, 2002, Vol. 50, str. 276- 290
3.	Pilot Assisted Estimation of MIMO Fading Channel Response and Achievable Data Rates, IEEE Transactions on Signal Processing, 2003, Vol. 51, str. 2882- 2890
4.	Compressed Transport of Baseband Signals in Radio Access Networks, IEEE Transactions on Wireless Communications, Volume 11, Issue 9, pp. 3216 - 3225, 2012
5.	Peer-to-Peer MIMO Radio Channel Measurements in a Rural Area, IEEE Transactions on Wireless Communications, 2007, Vol. 6, str. 3229- 3237
6.	Impact of Pilot Design on Achievable Data Rates in Multiple Antenna Multiuser TDD Systems, IEEE JSAC, Special Issue on Optimization of MIMO Transceivers, 2007, Vol. 25, str. 1370- 1379
7.	Prototype Experience for MIMO BLAST over Third Generation Wireless System, IEEE JSAC on MIMO Systems and Applications: Part I, 2003, Vol. 21, str. 440- 451
8.	Joint Coding Rate Control for Audio Streaming in Short Range Wireless Networks, IEEE Transactions on Consumer Electronics, 2009, Vol. 55, No. 2, str. 486- 491, ISSN ISSN: 0098-3063.
9.	A Human Detection Method for Residential Smart Energy Systems Based on Zigbee RSSI Changes, IEEE Transactions on Consumer Electronics, vol.58, no.3, pp.819-824, August 2012
10.	Experimental Evaluation of Unsupervised Channel Deconvolution for Wireless Multiple-Transmitter/Multiple-Receiver Systems, Electronics Letters IEE, 2002, Vol. 38, No. 20, str. 1214- 1216

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

Quotation total :	311
Total of SCI(SSCI) list papers :	11

Current projects :	Domestic :	0	International :	0

Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES — Power Software Engineering

Science, arts and professional qualifications

Name and last name:	Sarić T. Andrija
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	-
Scientific or art field:	Electroenergetics

Academic carieer	Year	Institution	Field
Academic title election:	2012		Electroenergetics
PhD thesis	1997	School of Electrical Engineering - Beograd	Electroenergetics
Magister thesis	1992	School of Electrical Engineering - Beograd	Electroenergetics
Bachelor's thesis	1988	School of Electrical Engineering - Beograd	Electroenergetics

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

	ID	Course name	Study programme name, study type
1.	EE411B	Exploitation of PES	(ES0) Power Software Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	ESI018	GIS in power systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
3.	ESI019	Critical mission software for power grids	(ES0) Power Software Engineering, Undergraduate Academic Studies
4.	DE307S	Planning and Optimization of Power System Plant	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
5.	DE407S	Regulation and Distribution Network Management	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
6.	DE513S	Advanced Methods of Monitoring and Management	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
7.	DE314S	Selected Chapters in System Management in Power Systems – EMC and DMS	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
8.	DE519S	PES Planning	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
9.	DE307	Planning and Optimization of Power System Plant	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
10.	DE407	Regulation and Control of Electric Power Systems	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
11.	DE513	Advanced Methods of Monitoring and Management	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
12.	DE314	Selected Chapters in System Management in Power Systems – EMC and DMS	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
13.	DE519	PES Planning	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. M. S. Ćalović, A. T. Sarić, "Planiranje elektroenergetskih sistema; Prvi deo: Principi i metodologija planiranja elektroenergetskih sistema", Beopres, Beograd, 2000, 342 strane, ISBN 86-7418-010-8, CIP 621.311:65.012(075.8).
2. M. S. Ćalović, A. T. Sarić, "Osnovi analize elektroenergetskih mreža i sistema", Akademska misao i Tehnički fakultet u Čačku, Beograd, 2004, 778 strana, ISBN 86-7466-134-3, CIP 621.311(075.8).
3. M. S. Ćalović, A. T. Sarić, P. Č. Stefanov, "Eksploatacija elektroenergetskih sistema u uslovima slobodnog tržišta", Tehnički fakultet, Čačak, 2005, 420 strana, ISBN 86-7776-006-7, CIP 621.311(075.8).
4. Sarić A., Murphy F., Soyster A., Stanković A.: Two-Stage Stochastic Programming Model for Market Clearing with Contingencies , IEEE Trans. on Power Systems, 2009, Vol. 24, No 3, pp. 1266-1278
5. Sarić A., Stanković A.: Applications of Ellipsoidal Approximations to Polyhedral Sets in Power System Optimization, IEEE Transaction on Power Systems, 2008, Vol. 23, No 3, pp. 956-965
6. Sarić A., Stanković A., Stanković A.: An Application of Interval Analysis and Optimization to Electric Energy Markets, IEEE Transaction on Power Systems, 2006, Vol. 21, No 2, pp. 515-523
7. Sarić A., Stanković A.: Integration of Equation and Signal-based Models in Transient Analysis of Electric Energy Systems, IEEE Transactions on Circuits and Systems I, 2006, Vol. 53, No 7, pp. 1589-1596
8. Sarić A., Stanković A.: Model Uncertainty in Security Assessment of Power Systems, IEEE Transaction on Power Systems, 2005, Vol. 20, No 3, pp. 1398-1405

Representative refferences (minimum 5, not more than 10)	
9.	Stanković A., Sarić A.: Transient Power System Analysis with Measurement-Based Gray Box and Hybrid Dynamic Equivalents, IEEE Trans. on Power Systems, 2004, Vol. 19, No 1, pp. 455-462
10.	Sarić A., Ćirić R.: Integrated Fuzzy State Estimation and Load Flow Analysis in Distribution Networks, IEEE Trans. on Power Delivery, 2003, Vol. 18, No 2, pp. 571-578

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	140			
Total of SCI(SSCI) list papers :	21			
Current projects :	Domestic :	2	International :	0

Science, arts and professional qualifications

Name and last name:	Sladić S. Goran
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.02.2004
Scientific or art field:	Applied Computer Science and Informatics

Academic carieer	Year	Institution	Field
Academic title election:	2011	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Computer Science
Magister thesis	2006	Faculty of Technical Sciences - Novi Sad	Computer Science
Bachelor's thesis	2002	Faculty of Technical Sciences - Novi Sad	Computer Science

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

	ID	Course name	Study programme name, study type
1.	E239A	Web Programming	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E2E41	E-Business Systems Security	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
3.	E2K41	Distributed Artificial Intelligence and Intelligent Agents	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
4.	EOS36	Elektronsko poslovanje i ugovaranje	(E01) Power Engineering - Renewble Sources of Electrical Energy, Undergraduate Professional Studies
5.	F501	WEB Design	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies
6.	ISIT10	Introduction to Software Development	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
7.	ISIT20	Object-oriented Programming Platforms	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
8.	ISIT2A	Software Development Techniques	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
9.	SE0006	Object oriented programming 1	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
10.	SE0014	Computer organisation	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies

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

	ID	Course name	Study programme name, study type
11.	SE0017	Software Development Metrodologies	(P00) Production Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
12.	SE0024	Software Construction and Testing	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
13.	SES103	Oral and written communication skills	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
14.	E2501	Electronic Payment Systems	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
15.	EP007	Document and content management	(I20) Engineering Management, Specialised Professional Studies (IB0) Engineering Management - MBA, Specialised Professional Studies
16.	E2522	Software Standardization and Quality	(E20) Computing and Control Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
17.	SEM009	Identity Management	(SE0) Software Engineering and Information Technologies, Master Academic Studies
18.	SEM013	E-government technologies	(SE0) Software Engineering and Information Technologies, Master Academic Studies
19.	SEM017	Information Security	(SE0) Software Engineering and Information Technologies, Master Academic Studies
20.	DRNI03	Selected Topics in Internet-Based Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies
21.	DRNI16	Selected Topics in Electronic Business	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
22.	DRNI19	Selected Topics in Information Security	(E20) Computing and Control Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Sladić G., Milosavljević B., Surla D., Konjović Z.: Flexible Access Control Framework for MARC Records, The Electronic Library, 2012, Vol. 30, No 5, pp. 623-652, ISSN 0264-0473, DOI:10.1108/02640471211275684
2. Gostojić S., Sladić G., Milosavljević B., Konjović Z.: Context-sensitive Access Control Model for Government Services, Journal of Organizational Computing and Electronic Commerce, 2012, Vol. 22, No 2, pp. 184-213, ISSN 1091-9392, DOI:10.1080/10919392.2012.667717
3. Sladić G., Milosavljević B., Konjović Z., Vidaković M.: Access Control Framework for XML Document Collections, Computer Science and Information Systems (ComSIS), 2011, Vol. 8, No 3, pp. 591-609, ISSN 1820-0214, DOI: 10.2298/CSIS100827002S
4. Vidaković M., Milosavljević B., Konjović Z., Sladić G.: Extensible Java EE-Based Agent Framework and Its Application on Distributed Library Catalogues, Computer Science and Information Systems (ComSIS), 2009, Vol. 6, No 2, pp. 1-28, ISSN 1820-0214, DOI: 10.2298/csis0902001V
5. Sladić G., Milosavljević B., Konjović Z.: Extensible Access Control Model for XML Document Collections, 1. International Conference on Security and Cryptology - SECRYPT, Barcelona: INSTICC, 28-31 Jul, 2007, pp. 373-380, ISBN 9789898111128
6. Sladić G.: Kontrola pristupa u poslovnim sistemima, Beograd, Zadužbina Andrejević, 2011, ISBN 978-86-525-0000-0
7. Sladić G.: Kontrola pristupa XML dokumentima, Zadužbina Andrejević, 2008, ISBN 978-86-7244-683-8

Representative refferences (minimum 5, not more than 10)	
8.	Vidaković M., Sladić G., Komazec S.: Sistemi za upravljanje elektronskim sadržajima i njihova primena u e-upravi, InfoM, Časopis za informacionu tehnologiju i multimedijalne sisteme, 2006, No 20, pp. 36-41, ISSN 1451-4397
9.	Sladić G., Milosavljević B., Konjović Z.: Kontrola pristupa XML dokumentima, Info-M, 2005, Vol. 4, No 15-16, pp. 53-59
10.	Milosavljević B., Komazec S., Sladić G.: Open source sistemi za upravljanje dokumentima u e-upravi, Info-M, 2006, Vol. 5, No 20, pp. 25-35

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	54			
Total of SCI(SSCI) list papers :	4			
Current projects :	Domestic :	2	International :	0

Science, arts and professional qualifications

Name and last name:	Stojaković M. Mila
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.12.1975
Scientific or art field:	Mathematics

Academic carieer	Year	Institution	Field
Academic title election:	1993	Faculty of Technical Sciences - Novi Sad	Mathematics
PhD thesis	1980	Faculty of Sciences - Novi Sad	Mathematical Sciences
Magister thesis	1978	Faculty of Mathematics - Beograd	Mathematical Sciences
Bachelor's thesis	1975	Faculty of Sciences - Novi Sad	Mathematical Sciences

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

	ID	Course name	Study programme name, study type
1.	E121	Mathematical Analysis 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E135	Probability, Statistics and Stochastic Processes	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	E221A	Mathematical Analysis 2	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
4.	E224A	Probability and Stochastic Processes	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
5.	ZC006	Probability, Statistics and Random Processes	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
6.	0M504	Operational Research	(OM1) Mathematics in Engineering, Master Academic Studies
7.	0M505	Stochastic Processes	(OM1) Mathematics in Engineering, Master Academic Studies
8.	0ML504	Operational Research	(OM1) Mathematics in Engineering, Master Academic Studies
9.	0ML505	Stochastic Processes	(OM1) Mathematics in Engineering, Master Academic Studies
10.	DZ01MS	Selected Chapters in Mathematics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies (I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies (Z00) Environmental Engineering, Specialised Academic Studies
11.	IAM005	Mathematical Game Theory	(F20) Engineering Animation, Master Academic Studies (OM1) Mathematics in Engineering, Master Academic Studies
12.	SD0M03	Operational Research	(GI0) Geodesy and Geomatics, Specialised Academic Studies
13.	SD0M15	Statistics	(GI0) Geodesy and Geomatics, Specialised Academic Studies
14.	ZR503	Statistical Advanced Models	(Z01) Safety at Work, Master Academic Studies
15.	D0M03	Operational Research	(OM1) Mathematics in Engineering, Doctoral Academic Studies

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

	ID	Course name	Study programme name, study type
16.	D0M04	Random Processes	(OM1) Mathematics in Engineering, Doctoral Academic Studies
17.	D0M15	Statistics	(OM1) Mathematics in Engineering, Doctoral Academic Studies
18.	D0M27	StatisticsApplied in Engineering	(OM1) Mathematics in Engineering, Doctoral Academic Studies
19.	DAU004	Selected Chapters in Mathematics 2	(E20) Computing and Control Engineering, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies
20.	DOM59	Fixed point theory	(OM1) Mathematics in Engineering, Doctoral Academic Studies
21.	DZ01M	Selected Chapters in Mathematics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (GI0) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Mila Stojaković, Decomposition and representation of fuzzy valued measure, Fuzzy Sets and Systems, 112(2000) 251-256
2. Mila Stojaković, Fuzzy conditional expectation, Fuzzy Sets and Systems, 52(1992) 49-54
3. Mila Stojaković, Fuzzy random variable, expectation, martingales, J.Math.Anal.Appl., 184(1994) 594-606.
4. Mila Stojaković, Fuzzy martingales, Stochastic Analysis and Applications, 14(1996), 355-368.
5. Mila Stojaković, Zoran Stojaković, Support function for fuzzy set, Proceedings of Royal Society, London A, 452(1996), 421-438.
6. Mila Stojaković, Zoran Stojaković, Addition and series of fuzzy sets, Fuzzy Sets and Systems, 83(1996) 341-346.
7. Mila Stojaković, Representation of fuzzy valued mappings, Fuzzy Sets and Systems, 98(1998) 375-381.
8. Mila Stojaković, Fuzzy valued measure, Fuzzy Sets and Systems,65(1994) 95-104 .
9. Mila Stojaković, Common fixed point theorems in complete metric and probabilistic spaces,Bull. Australian Math. Soc.,36(1987)73-88.
10. Mila Stojaković, Zoran Ovcin,Fixed point theorems and variational principle..., Fuzzy Sets and Systems, 66(1994)353-356.

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

Quotation total :	71			
Total of SCI(SSCI) list papers :	16			
Current projects :	Domestic :	1	International :	1

Science, arts and professional qualifications

Name and last name:	Strezoski C. Vladimir
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	-
Scientific or art field:	Electroenergetics

Academic carieer	Year	Institution	Field
Academic title election:	1995	Faculty of Technical Sciences - Novi Sad	Electroenergetics
PhD thesis	1985	School of Electrical Engineering - Beograd	Electroenergetics
Magister thesis	1978	School of Electrical Engineering - Beograd	Electroenergetics
Bachelor's thesis	1973	School of Electrical Engineering - Beograd	Electroenergetics

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

	ID	Course name	Study programme name, study type
1.	E129A	Power Engineering Systems	(ES0) Power Software Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EE0306	Analysis of PES 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	EE303	Analysis of PES 1	(ES0) Power Software Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	ESI013	Multi-tier applications development in power systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
5.	DE115S	Selected Chapters in Power Engineering System Analysis	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
6.	DE306S	Load Management in PES	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
7.	DE313S	Selected Chapters in Power Engineering	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
8.	DE114S	Selected Chapters in Distribution Network Analysis	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
9.	DE104	Regulation and Operation Management of Distribution Networks	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
10.	DE115	Selected Chapters in Power Engineering System Analysis	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
11.	DE313	Selected Chapters in Power Engineering	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
12.	DE114	Selected Chapters in Distribution Network Analysis	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Švenda G., Simendić Z., Strezoski V.: Advanced Voltage Control Integrated in DMS, INT J ELEC POWER, 2012, Vol. 43, pp. 333-343, ISSN 0142-0615
2.	Strezoski V.: A New Skaling Concept in Power System Analysis Naziv časopisa: IEE Proceedings (Generation, Transmission, Distribution) , IEE Proceedings (Generation, Transmission, Distribution), 2000
3.	Strezoski V., Bekut D.: A Canonical Model for the Study of Faults in Power Systems Naziv časopisa: IEEE Trans. On Power Systems , IEEE Trans. on Power Systems, 1991, Vol. 6, No 4, pp. 1493-1499
4.	Bekut D., Švenda G., Strezoski V.: Compound Algorithm for Distance Relay Setting
5.	Strezoski V., Popović D., Bekut D., Švenda G.: DMS – Basis for Increasing of Green Distributed Generation Penetration in Distribution Networks, Thermal Science, 2012, Vol. 1, No 16, pp. 189-203, ISSN 0354-9836
6.	Strezoski V.: Advanced symmetrical components method, IET GENER TRANSM DIS, 2011, Vol. 5, No 8, pp. 833-841, ISSN 1751-8687
7.	Strezoski V., Švenda G., Bekut D.: Extension of the Canonical Model Application for Calculation on Power Systems Under Fault Conditions Electrical Power
8.	Sarić A., Ćalović M., Strezoski V.: Fuzzy Multi-Objective Algorithm for Multiple Solution of Distribution Systems Voltage Control, Electrical Power

Representative refferences (minimum 5, not more than 10)	
9.	Strezoski V., Katić N., Janjić D.: Voltage Control Integrated in Distribution Management System, Electrical Power System Research , Electrical Power System Research, 2001, No 60, pp. 85-97
10.	Strezoski V., Trpezanovski Lj.: Three-Phase Asymmetrical Load-Flow Naziv časopisa: Electrical Power

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	46			
Total of SCI(SSCI) list papers :	12			
Current projects :	Domestic :	6	International :	14

Science, arts and professional qualifications

Name and last name:	Suvajdžin Rakić B. Zorica
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.12.1998
Scientific or art field:	Applied Computer Science and Informatics

Academic carieer	Year	Institution	Field
Academic title election:	2008	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	2008	Faculty of Technical Sciences - Novi Sad	Computer Science
Magister thesis	2000	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Bachelor's thesis	1998	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics

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

	ID	Course name	Study programme name, study type
1.	E225	Operating Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies
2.	E234	Compilers	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
3.	EE301	Operating Systems and Competitive Programming	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	H207	Programming and Programming Languages	(F10) Engineering Animation, Undergraduate Academic Studies (H00) Mechatronics, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
5.	ISIT12	Osnove informacionih sistema	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
6.	ISIT22	Osnove baza podataka	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
7.	SE0034	Compilers	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
8.	E2505	Multimedia Systems	(E20) Computing and Control Engineering, Master Academic Studies (ES0) Power Software Engineering, Master Academic Studies (F20) Engineering Animation, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
9.	F402	Electronic Publishing	(F00) Graphic Engineering and Design, Master Academic Studies
10.	DRNI08	Selected Topics in Information Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Rakić P., Milašinović D., Živanov Ž., Suvajdžin Rakić Z., Nikolić M., Hajduković M.: MPI–CUDA parallelization of a finite-strip program for geometric nonlinear analysis: A hybrid approach, Advances in Engineering Software, 2011, Vol. 42, No 5, pp. 273-285, ISSN 0965-9978
2.	Zorica Suvajdžin, Miroslav Hajduković, A Structure Editor for the Program Composing Assistant, Computer Science and Information Systems, Volume 3, Number 1, Beograd, jun 2006., pp 65-76
3.	Miroslav Hajduković, Zorica Suvajdžin, Žarko Živanov, Character oriented program editing - habit or necessity, Novi Sad Journal of mathematics, vol. 33, no. 1, Novi Sad, 2003., pp 53-65

Representative refferences (minimum 5, not more than 10)

4.	Hajduković M., Suvajdžin Z., Živanov Ž. Naziv: A problem of program execution time measurement Naziv časopisa: Novi Sad Journal of mathematics , Novi Sad Journal of Mathematics, 2003, Vol. 33, No 1, pp. 67-73, ISSN 1450-5444, UDK: 51
5.	Rakić P., Stričević L., Suvajdžin Rakić Z.: Statically Typed Matrix: in C library, 5. Balkan Conference in Informatics, Novi Sad: ACM, 16-20 Septembar, 2012, pp. 217-222
6.	Milašinović D., Živanov Ž., Rakić P., Suvajdžin Rakić Z., Nikolić M., Hajduković M., Borković A., Milaković I.: A Finite-Strip Analysis of Nonlinear Shear-Lag Effect Supported by Automatic Visualization
7.	Suvajdžin Rakić Z., Rakić P.: Computers and Education, 1. VIPSI, Nepoznato, 3-4 April, 2009, ISBN 86-7466-117-3
8.	Zorica Suvajdžin, Miroslav Hajduković, Program Composing Assistant For Novice Programmers, The ASEE Mid-Atlantic Spring Conference 2006, Brooklyn NY, April 2006, abstract+5 pages (CD-ROM)
9.	Zorica Suvajdžin, Miroslav Hajduković, Towards Program Composing Assistants, Proceedings of the 2005 International Conference on Programming Languages and Compilers, PLC"05, Las Vegas, Nevada, USA, jun 2005, pp 142-147
10.	Rakić P., Živanov Ž., Suvajdžin Rakić Z., Stričević L., Hajduković M.: Characteristics of Operating System for Wireless Sensor Network Applications, 9. International Symposium Interdisciplinary Regional Research - ISIRR, Novi Sad, , pp. 50-50

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

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

Science, arts and professional qualifications

Name and last name:	Šafranj F. Jelisaveta
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	15.10.2000
Scientific or art field:	English

Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	English
PhD thesis	2008	Faculty of Philology - Beograd	English
Magister thesis	2000	Faculty of Philology - Beograd	English
Education Specialist Thesis	1994	Faculty of Philology - Beograd	English
Bachelor's thesis	1982	Faculty of Philosophy - Novi Sad	English

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

	ID	Course name	Study programme name, study type
1.	AEJ1L	English Language - Elementary	(A00) Architecture, Undergraduate Academic Studies
2.	AEJ2L	English Language intermediate	(A00) Architecture, Undergraduate Academic Studies
3.	AEJ2Z	English intermediate	(A00) Architecture, Undergraduate Academic Studies
4.	AEJ3Z	English Language - upper intermediate	(A00) Architecture, Undergraduate Academic Studies
5.	EJ01L	English Language – Elementary	(G00) Civil Engineering, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
6.	EJ01Z	English Language - Elementary	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (F00) Graphic Engineering and Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies

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

	ID	Course name	Study programme name, study type
7.	EJ02L	English Language – Pre-Intermediate	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (F00) Graphic Engineering and Design, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
8.	EJ02Z	English Language – Pre-Intermediate	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
9.	EJ03Z	English Language - Intermediate	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
10.	EJ04L	English Language – Upper Intermediate	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
11.	EJ1Z	English Language - Elementary	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies

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

	ID	Course name	Study programme name, study type
12.	EJ2L	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
13.	EJ2Z	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies
14.	EJ3L	English Language – Advanced	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
15.	EJE5	English Language – First Certificat 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
16.	EJE6	English Language - First Certificate 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
17.	EJEI	English Language for Engineers	(H00) Mechatronics, Undergraduate Academic Studies
18.	EJEI1	English in Engineering 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
19.	EJEI2	English in Engineering 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
20.	EJF5	English Language for GRID 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
21.	EJF6	English Language for GRID 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
22.	EJGR	English Language – ESP Course	(G00) Civil Engineering, Undergraduate Academic Studies
23.	EJM	English Language – ESP Course	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
24.	EJPST	English Language in Postal Traffic	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
25.	EJSIT	English Language in Traffic and Transport	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies

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

	ID	Course name	Study programme name, study type
26.	EJZ	English Language - Specialized	(Z20) Environmental Engineering, Undergraduate Academic Studies
27.	F320	English Language – ESP Course 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
28.	F321	English Language – ESP Course 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
29.	ISIT01	English Language 1	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
30.	ASI381	English language 1	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
31.	ASI431	English Language 2	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
32.	BMI80	English 1	(BM0) Biomedical Engineering, Undergraduate Academic Studies
33.	BMI81	English 2	(BM0) Biomedical Engineering, Undergraduate Academic Studies
34.	EJIIM	English for Specific Purposes	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
35.	ETI15	Engleski jezik - srednji	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
36.	ETI20	Engleski jezik - napredni	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
37.	EJ1Z	English Language - Elementary	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies
38.	EJ2Z	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies
39.	eja	English Language – a Specialized Course	(AH0) Architecture, Master Academic Studies
40.	EJE7	English Language - Advanced	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
41.	F507	English Language for GRID 3	(F00) Graphic Engineering and Design, Master Academic Studies
42.	NIT03	Business English	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies

Representative refferences (minimum 5, not more than 10)

Representative refferences (minimum 5, not more than 10)	
1.	Analiza diskursa udžbenika engleskog jezika, Monografija, Zadužbina Andrejević, Beograd 2006.
2.	Retorička organizacija poslovne vesti, Monografija, Zadužbina Andrejević, Beograd 2009.
3.	Engleski jezik za GRID 3 - Academic Writing for Graphic Engineering and Design, FTN Izdavaštvo, Novi Sad 2012.
4.	Using Internet in English Language Teaching, NEW EDUCATIONAL REVIEW, (2011), vol. 26 br. 4, str. 45-59.
5.	Reflections of English Language Teachers Concerning Computer Assisted Language Learning (Call), NEW EDUCATIONAL REVIEW, (2011), vol. 23 br. 1, str. 269-282.
6.	Pragmatički aspekt udžbenika engleskog jezika, Pedagogija, 2009, 1, str.133-145.
7.	Students' Communicative Competence, Zbornik Instituta za pedagoška istraživanja, 2009, 1, str. 180-195.
8.	Retorička analiza lida poslovne vesti, Zbornik Matice Srpske za filologiju i lingvistiku, 2011, 1, str.191-210.
9.	Some Aspects of Technical Statements in Power Engineering, Zbornik radova, XI Međunarodni simpozijum Energetska elektronika Ee 2001, str.150-153.
10.	Genre Analysis of Research Abstract of an Engineering Scientific Paper, In Proceedings of English Language and Literature Studies: Interfaces and Integrations, 10-12 December 2004, Faculty of Philology, Belgrade, pp.365-374.

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	0			
Total of SCI(SSCI) list papers :	20			
Current projects :	Domestic :	0	International :	1

Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES — Power Software Engineering

Science, arts and professional qualifications

Name and last name:	Švenda S. Goran
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	-
Scientific or art field:	Electroenergetics

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Electroenergetics
PhD thesis	2001	School of Electrical Engineering - Beograd	Electroenergetics
Magister thesis	1994	School of Electrical Engineering - Beograd	Electroenergetics
Bachelor's thesis	1988	Faculty of Technical Sciences - Novi Sad	Electroenergetics

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

	ID	Course name	Study programme name, study type
1.	EE401	Application of Computers in Power Systems 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	ESI003	Electric power software development	(ES0) Power Software Engineering, Undergraduate Academic Studies
3.	ESI043	Optimization Methods in Power Engineering	(ES0) Power Software Engineering, Undergraduate Academic Studies
4.	SEI002	Architecture of Distributed Systems in Power Systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
5.	DE207S	Prelazni procesi i stabilnost u EES	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
6.	DE216S	Computational Intelligence in Power Systems	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
7.	EE501	Numerika i algoritmi	(M30) Energy and Process Engineering, Master Academic Studies
8.	EE506	Analysis of PES 3	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
9.	EE560	Planiranje elektroenergetskih sistema	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
10.	DE105S	Optimization Methods in Power Engineering - II	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
11.	DE217S	PES Analysis 4	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
12.	EE0501	Optimization Methods in Power Systems - 1	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
13.	EE0516	Specialized Software in Power Systems	(ES0) Power Software Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
14.	DE216	Computational Intelligence in Power Systems	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
15.	DE105	Optimization Methods in Power Engineering - II	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Čapko D., Erdeljan A., Popović M., Švenda G.: An Optimal Relationship-Based Partitioning of Large Datasets, LNCS, Springer Verlag, 2010, str. 555-558, ISBN 978-3-642-15575-8
2. Švenda G., Simendić Z., Strezoski V.: Advanced Voltage Control Integrated in DMS, INT J ELEC POWER, 2012, Vol. 43, pp. 333-343, ISSN 0142-0615
3. Švenda G., Nahman J.: Transformer Phase Coordinate Models Extended for Grounding System Analysis, IEEE Trans. on Power Delivery, 2002, Vol. 17, No 4, pp. 1023-1029
4. Čapko D., Erdeljan A., Švenda G., Popović M.: A Dynamic Repartitioning of Large Data Model in Distribution Management Systems, Electronics and electrical engineering, 2012, Vol. 5, No 121, pp. 1392-1215, ISSN 1392-1215
5. Strezoski V., Popović D., Bekut D., Švenda G.: DMS – Basis for Increasing of Green Distributed Generation Penetration in Distribution Networks, Thermal Science, 2012, Vol. 1, No 16, pp. 189-203, ISSN 0354-9836
6. Čapko D., Erdeljan A., Popović M., Švenda G.: An Optimal Initial Partitioning of Large Datasets in Utility Management Systems, Journal of Advances in Electrical and Computer Engineering, 2011, Vol. 11, No 4, pp. 41-46, ISSN 1582-7445

Representative refferences (minimum 5, not more than 10)	
7.	Strezoski V., Švenda G., Bekut D.: Extension of the Canonical Model Application for Calculation on Power Systems Under Fault Conditions, Electrical Power
8.	Nahman J., Švenda G.: Power and Earthing System Modeling in Natural Coordinates, Electrical Power
9.	Bekut D., Švenda G., Strezoski V.: Dead Zone Phenomenon in Distance Relaying of Overhead Transmission Lines, Electrical Power System Research, 2000, No 56, pp. 1-8
10.	Nahman J., G. Svenda: Power and Earthing System Modeling in Natural Coordinates, Electrical Power And Energy Systems, ELSEVIER, 2002, No.24, pp. 541-549, ISSN 0142-0615.,

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	5			
Total of SCI(SSCI) list papers :	8			
Current projects :	Domestic :	6	International :	14

Science, arts and professional qualifications

Name and last name:	Teslić Đ. Nikola
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	-
Scientific or art field:	Computer Engineering and Computer Communication

Academic carieer	Year	Institution	Field
Academic title election:	2011		Computer Engineering and Computer Communication
PhD thesis	1999	Faculty of Technical Sciences - Novi Sad	Computer Engineering
Magister thesis	1997	Faculty of Technical Sciences - Novi Sad	Computer Engineering
Bachelor's thesis	1995	Faculty of Technical Sciences - Novi Sad	Computer Engineering

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

	ID	Course name	Study programme name, study type
1.	E227A	Logic Design of Computer Systems 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E244	Selected Chapters in Physical Architecture Design	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	RT50	Television and Image Processing Software 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	EK465	Architectures of digital signal processors	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	SERT02	Basics of computer engineering	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
6.	RT56	Television and Image Processing Software 2	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
7.	RT511	Practicum in computer engineering and computer communications	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
8.	DRT04	Selected Chapters in Computer Communications	(Z01) Safety at Work, Doctoral Academic Studies
9.	DRT04	Selected Chapters in television software	(E20) Computing and Control Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Arhitekture i algoritmi DSP 1, Vladimir Kovačević, Miroslav Popović, Miodrag Temerinac, Nikola Teslić
2.	Zbirka rešenih zadataka iz logičkog projektovanja. računarskih sistema I : projektovanje digitalnih sistema. Mihajlo Katona, Nikola Teslić, Vladimir Kovačević

Representative refferences (minimum 5, not more than 10)

3.	Z. Šarić, S. Jovičić, V. Kovačević, N.Teslić, D. Kukolj , SYSTEM AND TECHNIQUE FOR SPEAKER LOCALIZATION USING MICROPHONE ARRAY, filled 21.november, 2006, No. P-2006/0642.
4.	D. Kukolj , V. Kovačević, N.Teslić, I. Papp, TECHNIQUE FOR DIRECTION OF ARRIVAL ESTIMATION FROM SOUND SOURCE USING DUAL MICROPHONE SYSTEM, filled 3.november, 2006, No. P-2006/0612.
5.	Z. Šaric, S. Jovičić, V. Kovačević, N.Teslić, I. Papp, TECHNIQUE AND SYSTEM FOR AUTOMATIC GAIN CONTROL (AGC) USING MICROPHONE ARRAY, filled 3.november, 2006, No. P-2006/0611.
6.	Majstorović D., Čelanović I., Teslić N., Čelanović N., Katić V.: Ultra-Low Letency Hardware-in-the-Loop Platform for Rapid Validation of Power Electronics Designs, IEEE Transaction on Industrial Electronics, 2011, Vol. 58, No 10, pp. 4708-4716, ISSN 0278-0046, UDK: http://dx.doi.org/10.1109/TIE.2011.2112318
7.	Pap I., Šarić Z., Jovičić S., Teslić N.: Adaptive microphone array for unknown desired speaker's transfer function, JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA, 2007, Vol. 122, No 2, pp. 44-49, ISSN 10.1121/1.2749077, UDK: http://dx.doi.org/10.1121/1.2749077
8.	Katona M., Kaštelan I., Peković V., Teslić N., Tekcan T.: Automatic black box testing of television systems on the final production line, IEEE Transactions on Consumer Electronics, 2011, Vol. 57, No 1, pp. 224-231, ISSN 0098-3063, UDK: 10.1109/TCE.2011.5735506
9.	Pap I., Šarić Z., Teslić N.: Hands-free Voice Communication with TV, IEEE Transactions on Consumer Electronics, 2011, Vol. 57, No 2, pp. 606-614, ISSN 0098-3063, UDK: doi: 10.1109/TCE.2011.5955198
10.	Marijan D., Zlokolica V., Teslić N., Peković V., Teckan T.: Automatic Functional TV Set Failure Detection System, IEEE Transactions on Consumer Electronics, 2010, Vol. 56, No 1, pp. 125-133, ISSN 0098-3063, UDK: 10.1109/TCE.2010.5439135

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

Quotation total :	0			
Total of SCI(SSCI) list papers :	6			
Current projects :	Domestic :	2	International :	10

Science, arts and professional qualifications

Name and last name:	Varga D. Ervin
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	-
Scientific or art field:	Electroenergetics

Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Electroenergetics
PhD thesis	2007	Faculty of Technical Sciences - Novi Sad	Electroenergetics
Magister thesis	1999	Faculty of Technical Sciences - Novi Sad	Computer Science
Bachelor's thesis	1994	Faculty of Technical Sciences - Novi Sad	Computer Engineering and Computer Communication

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

	ID	Course name	Study programme name, study type
1.	ESI003	Electric power software development	(ES0) Power Software Engineering, Undergraduate Academic Studies
2.	ESI004	Cloud Computing in power systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
3.	ESI014	Integration of power systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
4.	ESI015	Distributed Computer Systems in Power Systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
5.	ESI016	Smart Grid Programming	(ES0) Power Software Engineering, Undergraduate Academic Studies
6.	ESI018	GIS in power systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
7.	EE502	Distributed Computer System Application	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
8.	ESI022	Quality control and assurance of electric power software	(ES0) Power Software Engineering, Master Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Popović D., Varga E., Perlić Z.: Extension of the Common Information Model With a Catalog of Topologies, IEEE Transactions on Power Systems, 2007, Vol. 22, No 2, pp. 770-777
2. Varga E.: The Holistic Approach to Software Engineering, 5. PSU-UNS International Conference on Engineering and Technology - ICET, Phuket, 2-3 Maj, 2011, pp. 334-337
3. Varga E., Lendak I., Gavrić M., Erdeljan A.: Applicability of RESTful Web Services in Control Center Software Integrations
4. Lendak I., Varga E., Erdeljan A., Gavrić M.: RESTful Access to Power System State Variables, 8. SIBIRCON, IEEE Reg. Int. Conf. on "Computational Technologies in Electrical and Electronics Engineering", Irkutsk, 11-15 Jul, 2010, pp. 450-454, ISBN 978-1-4244-7624-4
5. Lendak I., Varga E., Erdeljan A., Gavrić M.: RESTful Web Services and the Common Information Model (CIM), 1. IEEE International Energy Conference (ENERGYCON), Manama, ISBN 9789990171105
6. Varga E., Gavrić M., Hajduković M.: An overview of the object-oriented concurrent programming language CONCERT realization, 4. Balkan conference on operational research, Solun, 1 Januar, 1997
7. Varga E., Konjović Z., Gerić Lj.: Direktno upravljanje opterećenjem sa mogućnošću zadavanja oblika dijagrama opterećenja sistema, 2. Jugoslovensko Savetovanje o Elektrodistributivnim Mrežama, Herceg Novi, 1 Januar, 2000
8. Varga E.: Implementacija Baze Podataka za Rad sa Skeniranim Katalozima Proizvoda, 1. Jugoslovensko Savetovanje o elktrodistributivnim mrežama JUKO CIRED, Zlatibor, 5-8 Oktobar, 1998
9. Lendak I., Ivančević N., Vukmirović S., Varga E., Nenadić K. & Erdeljan A.: Client Side Internet Technologies in Critical Infrastructure Systems, International Journal of Computers, Communications & Control (IJCCC), 2012, vol 7 (5), pp. 878-890.
10. Sandor F. Beretka, Ervin D. Varga: Proposal of a Multi-Agent System Architecturefor use in Energy Management Systems, 20th Telecommunications forum TELFOR 2012, Belgrade, Serbia, 2012.

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

Quotation total :	18			
Total of SCI(SSCI) list papers :	1			
Current projects :	Domestic :	1	International :	0

Science, arts and professional qualifications

Name and last name:	Vidaković P. Milan
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	20.01.1998
Scientific or art field:	Applied Computer Science and Informatics

Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	2003	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Magister thesis	1998	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Bachelor's thesis	1995	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics

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

	ID	Course name	Study programme name, study type
1.	E239A	Web Programming	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E2K41	Distributed Artificial Intelligence and Intelligent Agents	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
3.	F501	WEB Design	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies
4.	GI211	Geoinformatics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
5.	GI111	Information technologies in geodesy	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
6.	SE0006	Object oriented programming 1	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
7.	SE239A	Web programming	(P00) Production Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
8.	E2501	Electronic Payment Systems	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
9.	EP007	Document and content management	(I20) Engineering Management, Specialised Professional Studies (IB0) Engineering Management - MBA, Specialised Professional Studies
10.	AD0008	Web design in Architecture	(AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, Master Academic Studies
11.	DRNI03	Selected Topics in Internet-Based Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies

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

	ID	Course name	Study programme name, study type
12.	DRNI05	Selected Topics in Software Standardization and Quality	(E20) Computing and Control Engineering, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies
13.	FDS152	Selected Topics in Computer Graphics	(F00) Graphic Engineering and Design, Doctoral Academic Studies
14.	DAU014	Selected Topics in Computing	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
15.	DRNI16	Selected Topics in Electronic Business	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
16.	DRNI18	Selected Topics in Distributed/Mobile computing	(E20) Computing and Control Engineering, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Vidaković, M., Milosavljević, B., "Internationalisation of the BISIS Library Information System", Proceedings of the 28th International Unicode Conference, Orlando, USA, September 7-9, 2005.
2.	Vidaković, M., Sladić, G., Zarić, M., "Metadata Harvesting Using Agent Technology", Proceedings of the 8th IASTED International Conference on Software Engineering and Applications (SEA 2004), Cambridge, USA, November 9-11, 2004., pp. 489-493
3.	Vidaković M., Sladić G., Komazec S., "Sistemi za upravljanje elektronskim sadržajima i njihova promena u eUpravi", Info M: časopis za informacione tehnologije i multimedijalne sisteme, 2006., pp. 36-41, ISSN 1451-4397
4.	Vidaković, M., Zubić, T., Milosavljević, B., Pupovac, B., Tošić, T., "Processing Bibliographic Documents in the Library Inforation System BISIS", Proceedings of the International Conference on Distributed LibraryInformation Systems, Ohrid, Former Yugoslav Republic of Macedonia, June 1-6, 2004., pp. 65-91.
5.	Vidaković, M., Sladić, G., Konjović, Z., "Security Management In J2EE Based Intelligent Agent Framework", Proceedings of the 7th IASTED International Conference on Software Engineering and Applications (SEA 2003), Marina Del Rey, USA, November 3-5, 2003., pp. 128-133.
6.	Milosavljević B., Vidaković M., Komazec S. and Milosavljević G., "User Interface Code Generation for Data-Intensive Systems with EJB-based Data Models", In Software Engineering Research and Practice, Las Vegas, NV, USA, 2003.
7.	Vidaković, M., Konjović, Z., "EJB Based Intelligent Agents Framework", Proceedings of the 6th IASTED International Conference on Software Engineering and Applications (SEA 2002), Cambridge, USA, November 4-6, 2002., pp. 343-348.
8.	Vidaković M., "Agentska okruženja", Zadužbina Andrejević. Beograd, 2007, ISBN: 9-788672-446210
9.	Milosavljević B., Vidaković M., Java i Internet programiranje, FTN izdavaštvo, 2007., ISBN 978-86-7892-047-9
10.	Okanović D., Vidaković M., „Upotreba JMX mlet servisa za ažuriranje verzija aplikacija“, Zbornik radova YuInfo 2007 (CD), Kopaonik 2007.

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

Quotation total :	119			
Total of SCI(SSCI) list papers :	7			
Current projects :	Domestic :	1	International :	0

Science, arts and professional qualifications

Name and last name:	Vukmirović M. Srđan
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	20.11.2000
Scientific or art field:	Automatic Control and System Engineering

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Magister thesis	2004	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Bachelor's thesis	2000	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering

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

	ID	Course name	Study programme name, study type
1.	E126	System Control, Modeling and Simulation	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E232	System Modeling and Simulation	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
3.	GI303A	Distributed Systems in Geomatics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	H213	System Modelling and Simulation 1	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies (H00) Mechatronics, Undergraduate Academic Studies
5.	E2312	Software design for SCADA systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
6.	ESI004	Cloud Computing in power systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
7.	ESI008	Development of Cloud application in power systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
8.	SEAU02	SCADA Software	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
9.	AU502	Distributed Control Systems	(E20) Computing and Control Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
10.	H301	System Modeling and Symulation	(H00) Mechatronics, Master Academic Studies
11.	E2533	Discrete event simulation	(E20) Computing and Control Engineering, Master Academic Studies
12.	E2535	Software Algorithms in Supervisory Control and Data Acquisition Systems	(E20) Computing and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
13.	ESI027	Advanced cloud computing in power systems	(ES0) Power Software Engineering, Master Academic Studies

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

	ID	Course name	Study programme name, study type
14.	ESI032	Smart grid applications in Cloud	(ES0) Power Software Engineering, Master Academic Studies
15.	ESI038	Service oriented architectures in Smart Grid	(ES0) Power Software Engineering, Master Academic Studies
16.	DAU006	Selected Chapters in Modeling and Simulation of Dynamic Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies
17.	DAU018	Selected Chapters in Distributed Control Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies
18.	ZRD25A	Selected chapters from Artificial Ingeligence	(Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Kljajic, Miroslav; Gvozdenac, Dusan; Vukmirovic, Srdjan Use of Neural Networks for modeling and predicting boiler's operating performance ENERGY 2012 45 (1):304-311
2.	Vukmirović S., Erdeljan A., Čapko D., Lendak I., Nedić N.: Optimization of workflow scheduling in Utility Management System with hierarchical neural network, International Journal of Computational Intelligence Systems, 2011, Vol. 4, No 4, pp. 672-679, ISSN 1875-6883
3.	S.Vukmirovic, A. Erdeljan, D. Capko, I. Lendak, N. Nedic, Optimization of workflow scheduling in Utility Management System with hierarchical neural network, International Journal of Computational Intelligence Systems, ISBN 1875-6891, pp. 672 - 679
4.	S.Vukmirovic, A. Erdeljan, D. Capko, I. Lendak, Extension of the Common Information Model with Virtual Meter, Electronics and electrical engineering ISSN: 1392-1215, pp. 59 - 64
5.	D. Capko, A. Erdeljan, S.Vukmirovic, I. Lendak, A HYBRID GENETIC ALGORITHM FOR PARTITIONING OF DATA MODEL IN DISTRIBUTION MANAGEMENT SYSTEMS, Information technology and control ISSN: 1392-124X, pp. 316 - 322
6.	S.Vukmirovic, A. Erdeljan, D. Capko, I. Lendak, N. Nedic, A Genetic Algorithm Approach for Utility Management System Workflow Scheduling, Information technology and control ISSN: 1392-124X, pp. 310 - 316
7.	Ilić S., Vukmirović S., Erdeljan A., Kulić F.: Hybrid Artificial Neural Network System for Short-Term Load Forecasting, Thermal Science, 2012, Vol. 16, No S, pp. 215-224, ISSN 0354-9836
8.	Vukmirović S., Erdeljan A., Lendak I., Čapko D.: A novel software architecture for Smart Metering systems, Journal of Scientific and Industrial Research (JSIR), 2010, Vol. 2010, No 12, pp. 937-941, ISSN 0022-4456
9.	Vukmirović S., Vujić G., Vujic B., Jovičić N., Jovičić G., Babić M.: Experimental and Artificial Neural Network approach for forecasting of traffic air pollution in urban areas: the case study of Subotica, Thermal Science - International Scientific Journal, 2010, Vol. 14, pp. 79-87, ISSN 0354-9836
10.	Vukmirović G., Vukmirović S., Vujić G., Stanisavljević N., Ubavin D., Batinić B.: Using ANN model to determine future waste characteristics in order to achieve specific waste management targets -case study of Serbia, Journal of Scientific and Industrial Research (JSIR), 2011, Vol. 70, No 07, pp. 513-518, ISSN 0022-4456

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

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

Science, arts and professional qualifications

Name and last name:	Živanov S. Žarko
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.01.2001
Scientific or art field:	Applied Computer Science and Informatics

Academic carieer	Year	Institution	Field
Academic title election:	2012		Applied Computer Science and Informatics
PhD thesis	2012	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Magister thesis	2007	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Bachelor's thesis	2000	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics

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

	ID	Course name	Study programme name, study type
1.	E217	Computer Architecture	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies
2.	E223A	Object Programming	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies
3.	E225	Operating Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies
4.	E234	Compilers	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
5.	SZP01	Selected topics in Information technologies	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
6.	E2529	Parallel and distributed architectures	(E20) Computing and Control Engineering, Master Academic Studies (ES0) Power Software Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
7.	E2534	Data Compression	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Žarko Živanov, Ivan Nejgebauer, Lazar Stričević, Miroslav Hajduković: Praktikum računarskih vežbi za predmet ARhitektura računara
2.	Rakić P., Milašinović D., Živanov Ž., Suvajdžin Z., Nikolić M., Hajduković M.: MPI–CUDA parallelization of a finite-strip program for geometric nonlinear analysis: A hybrid approach, Advances in Engineering Software, 2011, Vol. 42, No 5, pp. 273-285, ISSN 0965-9978
3.	Hajduković M., Milašinović D., Nikolić M., Rakić P., Živanov Ž., Stričević L.: Scope of MPI/OpenMP/CUDA Parallelization of Harmonic Coupled Finite Strip Method Applied on Large Displacement Stability Analysis of Prismatic Shell Structures, Computer Science and Information Systems (ComSIS), 2012, Vol. 9, No 2, pp. 741-761, ISSN 1820-0214
4.	Živanov Ž., Rakić P., Hajduković M.: COLIBROS: Educational operating system, Computer Science and Information Systems (ComSIS), 2010, Vol. 7, No 4, pp. 705-719, ISSN 1820-0214, UDK: 004.45
5.	Živanov Ž., Rakić P., Hajduković M.: Wireless sensor network application programming and simulation system, Computer Science and Information Systems (ComSIS), 2008, Vol. 5, No 1, pp. 109-126, ISSN 1820-0214

Representative refferences (minimum 5, not more than 10)	
6.	Živanov Ž., Rakić P., Hajduković M.: Using code generation approach in developing kiosk applications, Computer Science and Information Systems (ComSIS), 2008, Vol. 5, No 1, pp. 41-59, ISSN 1820-0214
7.	*****Autori: Suvajdžin Z., Hajduković M., Živanov Ž. Naziv: Character oriented program editing – habit or necessity? Naziv časopisa: Novi Sad Journal of mathematics
8.	*****Autori: Hajduković M., Suvajdžin Z., Živanov Ž., Hodžić E. Naziv: A problem of program execution time measurement Naziv časopisa: Novi Sad Journal of mathematics
9.	*****Milašinović D., Živanov Ž., Rakić P., Suvajdžin Z., Nikolić M., Hajduković M., Borković A., Milaković I.: A Finite-Strip Analysis of Nonlinear Shear-Lag Effect Supported by Automatic Visualization.
10.	Rakić P., Milašinović D., Živanov Ž., Hajduković M.: MPI-CUDA Parallelisation of the Finite Strip Method for Geometrically Nonlinear Analysis, 1. Internationale Conference on Parallel, Distributed and Grid Computing for Engineering, Pecs: Civil-Comp Press, , ISBN 978-1-905088-29-4

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	0			
Total of SCI(SSCI) list papers :	7			
Current projects :	Domestic :	0	International :	0

Standard 10. Organizational and Material Resources

For realization of the study program of Power Software Engineering at the Faculty of Technical Sciences in Novi Sad, adequate human, spatial, technical and technological, laboratory, library and other resources are provided They are all in accordance with the nature and requirements of the study program and predicted number of students. The teaching of the study program of Power Software Engineering is performed in 2 shifts so that more than 2m2 per student are provided.

The teaching takes place in amphitheaters, classrooms, computer and specialized laboratories. The library has more than 300 library units relevant for realization of the study program of Power Software Engineering. For all the subjects of the study program of Power Software Engineering, appropriate textbook literature, devices and supplementary equipment are available on time and in a sufficient number for normal performance of the teaching process. The adequate information technology support is also available for performing of the study program.
The Faculty of Technical Sciences in Novi Sad has a library and reading room and provides every student with a seat in the amphitheater, classroom and laboratory, thus meeting the requirements of all teaching activities.

Standard 11. Quality Control

The quality of the study program of Power Software Engineering of Undergraduate Academic Studies as well as all the other study programs of the Faculty of Technical Sciences in Novi Sad is provided by the functioning of the Quality Management System which was established at the Faculty in 2000, in accordance with the international standard ISO 9001 and certified by Federal Administration for Standardization as authorized domestic institution within TUV Nord as recognized authorized international institution for quality management system certification. The effectiveness and efficiency of the Quality Management System is confirmed by annual supervisory checks and by four re-certifications by the mentioned institutions.

Within the Quality Management System, the quality guarantee and quality control of the study program are supported by appropriate codes of conduct of all participants in the teaching process – procedures for creation of teaching programs, for enrolment of students, for realization of teaching process, for evaluation of students, for writing of the final graduation paper, for functioning of the Student Services, for Library Work, forevaluation of the success of the studies, for evaluation of the quality of teaching process by students and other procedures relating to resources and logistics of teaching process.

As a part of the Quality Management System, the practice of evaluation of users' and employees' satisfaction has been established: conducting opinion polls to students during the studies, at the end of teaching processin every subject where the students evaluate the quality of the program, realization of teaching process, literature and lecturer of the subject; conducting opinion polls to students upon the verification of enrolmentin the following scholar year when they evaluate the quality of the study program and logistic support duringthe studies; conducting opinion polls to students at the end of studies, at the ceremony of handing out the diplomas when they evaluate the quality of the study program and logistic support during the studies. Other than that, the comfort of studying is evaluated (hygiene in the classrooms etc.); conducting opinion polls to teaching and non-teaching staff, when the work of Dean's Office, Student Service, Library and other services ofthe Faculty are evaluated as well.

For conducting the quality control of the study program, a special Committee has been formed, consisting of the manager of the study program, heads of all chairs participating in the realization of the study program, managers of all modules in the study program and a student in every year of study.

Self-evaluation of the study program is done within self-evaluation of the Faculty of Technical Sciences in Novi Sad as an institution and a corresponding "Report on self-evaluation of the institution" incorporates allthe elements of quality of the study program, including the participation of students in self-evaluation and quality evaluation.

Standard 12. Distance Education

Distance learning is not provided for within the study program of Power Software Engineering and in accordance with the relevant standards the accreditation does not apply to it.