STUDY PROGRAMME ACCREDITATION MATERIAL:

GEODESY AND GEOMATICS

UNDERGRADUATE ACADEMIC STUDIES

Novi Sad

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Prevod sa srpskog jezika:

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Programme name	Geodesy and Geomatics
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	Geodesy Engineering
Type of studies	Undergraduate Academic Studies
Study scope, expressed in ECTS	241-247
Academic degree, abbreviation	Bachelor with Honours in Geodesy, B.Geod.
Study length	4
Programme implementation starting year	2008
Future course implementation starting year (for new programme)	
Number of students attending this programme	297
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	2008
Web address containing programme information	http://www.ftn.uns.ac.rs

Standard 00. Introduction

The study programme for the Undergraduate Academic Studies in Geodesy and Geomatics, the field of Geodetic Engineering, is realized within the Department for Computing and Control Engineering and the Department for Civil Engineering at the Faculty of Technical Sciences, University of Novi Sad.
The study programme in Geodesy and Geomatics has been developed within two fundamental fields: geodesy and geoinformatics. The programme is designed to educate engineers to receive enough practical knowledge for work, and also to enable further education at adequate graduate and doctoral studies.
The current situation and especially trends of development in the field of geodesy, geomatics and geoinformatics present the basis for defining the structure and the content of the study programme. Hence, a majority of courses at first two years of studies are designed to provide necessary knowledge in general-educational and theoretical courses which will make the foundation for understanding geodesy and geoinformatics established on the principles of physics, mathematics, electrical engineering, fundamentals in computer sciences, and computer engineering. Senior years are intended for specialized courses that should provide professional and application knowledge in narrower fields of interest. During studies, and especially at specialized courses, a special emphasis is on individual work, in encouraging the participation in concrete professional and developmental projects within individual laboratories, and in emphasising and developing abilities for problem-solving situations. New and contemporary laboratories have been developed in the cooperation with well-known worldwide companies in this field: HEXAGON, ORACLE, IBM, Cisco Systems, Allied Telesyn, Micronas, ABB, Philips, Sagem, OpenWave, AOL, Cirrus Logic, Danfoss, Nivelco, Feedback, Siemens, Leica, Schneider Electric. Through all the activities, apart from the essential theoretical and practical knowledge, students obtain a necessary feeling of personal security and fulfilment necessary for the successful integration into the professional environment.

Standard 01. Programme Structure

The name of the study programme of these undergraduate academic studies is Geodesy and Geomatics. The academic title awarded is Bachelor in Geodesy (BSc. (Geod.)). The structure of the study programme is to obtain valuable knowledge in the selected field of interest, as well as to provide a good insight into wider knowledge related to other fields of geodesy and geoinformatics. The prerequisites for enrolling the study programme are the completed four-year-long secondary school and passed qualification examination.
Study programme of undergraduate studies Geodesy and Geomatics lasts four years and is worth 240 ECTS. This study programme includes required and elective courses, professional practice and graduate work.
The undergraduate academic studies in Geodesy and Geomatics, lasting for four years, have two groups of elective courses:
• elective courses in a specific field of geodesy;
• elective courses in a specific field of geoinformatics.

First three years are common to all students, and then students (on completing the third year), based on their individual abilities and wishes, make a decision for the elective subjects/courses.
Within the subjects in the group of geodesy, the emphasis is placed on the technical and technological aspects of terrain surveying.
Within the subjects in the group of geoinformatics, the emphasis is on obtaining profound knowledge necessary for designing, developing and applying contemporary software systems in the field of geodesy. Special emphasis is on the systems based on the Internet technologies.
The Head of the study programme has the ability to limit the number of students per group for the rational use of existing resources.
Elective courses are chosen from the group of proposed courses, though the students have the possibility, related to their own abilities and demands and in agreement with the Head of the study programme, to choose a certain number of courses from the Faculty of Technical Sciences, University of Novi Sad, or some other university in the country or abroad. In doing so, the preconditions set for attending the elected course have to be fulfilled.
Teaching is performed in lecturing and practice. At lectures, with the usage of adequate didactic means, the course material is presented with necessary explanations contributing to better understanding of the course content. At practice classes that follow the lectures, concrete tasks are solved and examples are presented for additional explanations of the course content. Practice classes can also be used for the organized solving of practical engineering problems. Practice can be auditory, laboratory, computer and computing. Part of the exercise is carried out in the field using surveying instruments while the collected data is processed in specialized applications. Students on practical exercises (laboratory, computer, computing and field surveying) use modern software tools and surveying equipment. There is a good tendency at all professional courses that at least half of all practice classes are laboratory and computing practice, which provides better understanding and solving practical problems to students. A part of practice classes can be held in the industry and other institutions.
Number of students in a group is determined in dependence on the character of practice classes. Students` obligations at practice can also include the elaboration of seminar papers and homework, project tasks, semester papers, where each activity by students during the teaching process is monitored and graded according to the regulations adopted at the Faculty level. The number of obtained points is presented in accordance with the unique methodology and represents students` performances.
Each course has a certain number of ECTS (European Credit Transfer System) credits, and the entire studies are considered to be completed when the student fulfils their obligations described in the study programme and in the process obtains at least 240 ECTS credits.

Standard 02. Programme Objectives

The aim of the study programme is the education of students for the profession of an engineer in geodesy in the field of geodesy and geoinformatics, in accordance to the needs of the society and the individuals.

The study programme in Geodesy and Geomatics is designed is such a manner as to provide the acquisition of competencies that are socially justifiable and useful. The Faculty of Technical Sciences has defined the basic tasks and aims in educating highly competent professionals in the field of engineering. The aim of the study programme in Geodesy and Geomatics is completely in accordance with the basic tasks and aims of the Faculty of Technical Sciences.

The realization of a designed study programme provides education for engineers in geodesy who have competence in European and worldwide frameworks.

Standard 03. Programme Goals

The objectives of the study programme can be grouped in several categories:
Technical knowledge. To obtain necessary knowledge in the field of geodesy, together with the knowledge in mathematics, physics and selected social sciences. The programme has to provide a profound knowledge on at least one of the specialized fields: geodesy and geoinformatics.
Practical knowledge. To obtain necessary knowledge for presenting problems and projects, as well as the plan for their solutions by utilizing diverse technical knowledge and skills. Apart from everything else, it also includes the development of creative abilities to observe problems and the ability for critical thinking.
Communication and teamwork. To obtain necessary knowledge for active usage of at least one world language, with the development of the ability to present personal results to professional and other public, as well as the development of teamwork skills.
Preparations for further studies. To obtain necessary knowledge that can enable further education in graduate, specialization and doctoral studies. One of special objectives, in accordance with the goal of educating experts at the Faculty of Technical Sciences, is to develop the awareness in students for the demand for continual education, the development of the society in its entity and the protection of environment.
Preparation for professional engagement. To obtain necessary knowledge and to present awareness on the wide range of problems and tasks occurring in professional practice: safety, ethics, ecology and economics.

Standard 04. Graduates` Competencies

Bachelor in Geodesy (BSc. (Geod.) - Engineers in geodesy, who complete the study programme in Geodesy and Geomatics, are competent to solve real and complex problems in practise, as well as to continue their education if wanted. The competencies include, first and foremost, the development of the ability of critical thinking and the ability to analyse problems, synthesise problems, and predict the behaviour of the selected solution with the clear presentation of advantages and drawbacks of the selected solution.

When considering the specific abilities of students, by completing the study programme the students acquire fundamental knowledge in the field of geodesy and geomatics together with the knowledge in mathematics, physics and selected social sciences. On completing the study programme, students obtain a profound knowledge on at least one of the specialized fields: geodesy and geoinformatics. Furthermore, the study programme educates students to solve concrete problems with the usage of professional and scientific methods and procedures.

Graduate students in geodesy and geomatics are capable to adequately write and present the results of their work.

Graduate students at this level of studies possess competencies for applying knowledge in practice and for monitoring and applying novelties in their profession, as well as for cooperating with local social and international environment.

Graduate students in geodesy and geomatics have the ability for teamwork and the development of professional ethics.

Standard 05. Curriculum

The curriculum of the undergraduate academic studies in Geodesy and Geomatics is formed in a manner to satisfy all set objectives. The structure of the study programme provides approximately 15% of academic and general-educational courses, app. 20% of theoretical methodological courses, app. 35% of scientific professional courses, and app. 30% of professional applicative courses. Also, elective courses are present with 20% of ECTS credits. Apart from this classification, courses in this study programme can be divided into the following groups:
- Group of courses in fundamental engineering disciplines (mathematics, physics, etc.),
- Group of courses in architecture and civil engineering,
- Group of courses in electrical and control engineering,
- Group of courses in geodesy,
- Group of courses in automation, computer sciences and informatics,
- Group of courses in geoinformatics,
- Group of courses that concretize the obtained education.

First three years present fundamental, common and general education of all students in this educational programme, while on completing the third year students decide between two groups of elective courses: geodesy and geoinformatics. In other words, on the fourth year, students receive profound knowledge in the field they are more interested in.
Selecting optional courses in the fourth year, students additionally satisfy their personal affinities.
All courses are one-semester long and have an adequate number of ECTS credits, where one credit equals approximately 30 hours of students` activities. The schedule of courses in the study programme is designed in a manner that all knowledge necessary for subsequent courses in provided in previously taken courses.
Curriculum defines the description of each course with name, type, year and semester of studies, number of ECTS credits, teacher`s name, course outcome with expected results, knowledge and competencies, prerequisites for course attendance, course content, recommended literature, lecturing methods, knowledge evaluation and other data.
Study programme is in accordance with European standards regarding enrolment conditions, study duration, transfer to another year, diploma acquisition and manner of studies.
A part of the curriculum at geodesy and geomatics is a professional practice and practice work lasting for 45 hours, realized in an adequate scientific and research institutions, organizations for performing innovation activities, organizations for providing infrastructure support to innovation activities, and in industrial associations and public institutions.
Students complete studies by elaborating the final Bachelor thesis comprising of a theoretical and methodological preparation necessary for deepened understanding of the field in which the final thesis is elaborated, and the elaboration itself.
Before the elaborating of the thesis, the candidate passes theoretical and methodological fundamentals usually in front of the supervisor. The final grade of the final thesis is based on the grade for the passed theoretical and methodological preparation and the grade for elaborating and defending the thesis. Final thesis is elaborated in front of the committee comprised of at least three teachers.

Table 5.2 Course specification

Course:		Computer Practicum
Course id:	GI100	
Number of ECTS:	4	
Teachers:		Milosavljević P. Branko, Ćulibrk R. Dubravko
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: None

1. Educational goal:

To acquire basic and applied knowledge in the field of computer usage and the application of information technologies.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in professional courses, as well as in the recognition and in solving engineering problems by using information technologies.

3. Course content/structure:

Information, datum, processing and manners of data presentation, algorithms. Basic architecture and logic in computer system functioning. Operation systems and utilization techniques. Introduction to computer networks and techniques for using computer networks. Notion of programme system and fields of computer application. Internet services and usage techniques. Techniques for using service programmes for text processing, table and graphic data presentations. Algorithmic presentation of data processing procedures in solving engineering problems. Techniques for programming using one, visually oriented language of the third generation.

4. Teaching methods:

Computer practice, consultations, individual elaboration of obligatory tasks.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Complex exercises	Yes	50.00	Practical part of the exam - tasks	Yes	30.00
Homework	Yes	5.00			
Homework	Yes	5.00			
Homework	Yes	5.00			
Homework	Yes	5.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Gary B.Shelly,Thomas J.Cashman),Misty E.Vermaat	Microsoft Office: Introductory Concepts and Techniques	Course Technology	2007
2,	Luković I, Stefanović D, Rakić M, Stefanović N	Osnove računarskih tehnologija i programiranja - priručnik za vežbe	Symbol, Novi Sad	2002

Table 5.2 Course specification

Course:		Algebra
Course id:	GI101	
Number of ECTS:	8	
Teachers:		Pantović B. Jovanka, Teofanov Đ. Ljiljana
Course status:		Mandatory

Number of active teaching classes (weekly)

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

Precondition courses: None

1. Educational goal:

Enabling students for abstract thinking and acquiring basic knowledge in the field of elementar and linear algebra.

2. Educational outcomes (acquired knowledge):

Understanding key notions and problems of general and linear algebra. Practicing to develop necessary techniques and skills for solving tasks that contribute to the usage of acquired knowledge in further education and in professional courses, as well as in designing and solving mathematical models. This course is fundamental for all other mathematical courses as well as for almost all other professional courses, so the basic outcome is to enable students to begin their work in almost all other courses.

3. Course content/structure:

Sets, multiset and tuples. Equivalence relations, set partitions, partial order and Hasse diagrams. Functions. Groupoids, semigroups, monoids, groups and commutative groups. Rings and fields. Complex numbers. Polynomials. Free vectors. Analytical geometry in 3D. Linear algebra.

4. Teaching methods:

Lectures and auditory practice. Consultations. Lectures are held in a combined manner. At lectures, theoretical part of the course content is presented and complemented by characteristic examples for easier understanding. At practice that follow the lectures, characteristic tasks are done and course content is explained in more detail.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance	Yes	5.00	Oral part of the exam	Yes	30.00
Lecture attendance	Yes	5.00	Practical part of the exam - tasks	Yes	40.00
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	R.Doroslovački	Principi algebre, opšte diskretne i linearne	Alfa-graf Ns	2008
2,	R.Dorolovački	Zbirka ispitnih zadataka iz diskretne matematike 1985-2006	Alfa-graf Ns	2006
3,	R.Dorolovački i Ljubo Nedović	Testovi iz diskretne matematike i linearne algebre za studente elektro tehničkog odseka	Alfa-graf Ns	2007

Table 5.2 Course specification

Course:		Introduction to Geodesy
Course id:	GI105	
Number of ECTS:	4	
Teacher:		Trifković N. Milan
Course status:		Mandatory

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

Precondition courses: None

1. Educational goal:

To acquire basic and applied knowledge in the field of geodesy, geomatics and geoinformatics.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in professional courses, as well as in the recognition and in solving the engineering problems.

3. Course content/structure:

Shape and size of the Earth, and approximations of the geoid using mathematically defined surface. Imaging the Earth on the plane. Types of coordinates on the geoid, ellipsoid and plain. Fundamental notions and definitions. Referential systems of Newton`s mechanics. Normal and deviated Earth movement. Conventional inertial referential system. Conventional inertial referential framework. Conventional terrestrial referential system. Conventional terrestrial referential framework. Modelling the dot positions. Topocentric referential system. Transformations of referential systems. Measuring in geodesy. Types of errors and their assessment.

4. Teaching methods:

Teaching forms: lectures, computer practice, consultations, individual elaboration of compulsory tasks. Knowledge evaluation: guided and individual elaboration of obligatory tasks; tests; final examination in oral form.

Knowledge evaluation (maximum 100 points)

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

Literature

Ord.	Author	Title	Publisher	Year
1,	Kontić S	Geodezija	Nauka Beograd	1995
2,	grupa autora	Razvoj nauke u oblasti građevinarstva i geodezije u Srbiji	Građevinska knjiga, Beograd	1996
3,	N. N. Lebedev, V.E. Novak, G.P. Levčuk i dr.	Praktikum po kursu prikladnoi geodezii	Nedra, Moskva	1977

Table 5.2 Course specification

Course:		Physics
Course id:	H101	
Number of ECTS:	5	
Teacher:		Budinski-Petković M. Ljuba
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:

Acquisition of basic knowledge in physics.

2. Educational outcomes (acquired knowledge):

Acquired knowledge enables understanding of physical processes operation of technical devices is based on.

3. Course content/structure:

Fundamental forces and conservation laws. Special theory of relativity. Basics of electrostatics. Electric field and potential. Conductors and dielectrics in an electric field. Electricity. Direct current. Modern theory of conductivity. Semiconductors. Electromagnetism. The magnetic field of electricity. Electromagnetic induction. AC electricity. The magnetic field in materials; diamagnetism, paramagnetism, ferromagnetism. Wave motion and acoustics. Wave equation. Doppler effect. Power and volume of the sound. The absorption of sound. Ultrasound. Optics. Basic laws of geometric optics. Optical instruments. Wave optics. Interference, diffraction, dispersion and polarization of light. Laws of black body radiation. Photoeffect. Lasers. The physical basis of nuclear techniques. Radioactive decays. Fission and fusion.

4. Teaching methods:

Lectures; laboratory practice; computing practice; consultations. Theoretical part of the course is presented during lectures and it is accompanied by adequate examples which illustrate application of theory on problem solving. Laboratory practice consists of experiments in the field covered by the syllabus and the programme. Typical problems are solved during computing practice, and the knowledge from the lectures is deepened. Besides lectures and practice, consultations are held on the regular basis. Parts of the course which represent a logical whole may be passed during the teaching process through colloquiums. Final examination consists of the written and oral part. Written part of the examination is eliminatory.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance	Yes	5.00	Final exam - part one	Yes	35.00
Laboratory exercise defence	Yes	20.00	Final exam - part two	Yes	35.00
Lecture attendance	Yes	5.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	dr Ana Petrović	Fizika	Fakultet tehničkih nauka u Novom Sadu	2002
2,	M. Vučinić-Vasić, D. Ćirić, T. Škrbić, M. Đurić	Zbirka zadataka iz fizike	Fakultet tehničkih nauka u Novom Sadu	2005
3,	Lj. Budinski-Petković, M. Vučinić-Vasić, D. Ilić	Praktikum laboratorijskih vežbi iz fizike		2005

Table 5.2 Course specification

Course:		Perspective
Course id:	A555	
Number of ECTS:	5	
Teachers:		Stojaković Z. Vesna, Navalušić V. Slobodan, Štulić B. Radovan
Course status:		Elective

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

Precondition courses: None

1. Educational goal:

Developing the ability of spatial visualization (SV), spatial imagination and graphic representation of three-dimensional (3D) space on the perspective image (PI)

2. Educational outcomes (acquired knowledge):

Ability of deduction and interpretation of spatial relationships and properties of the complex geometric shapes and their geometric structures on the perspective image. 3D configuration design and graphic expression of PI.

3. Course content/structure:

SV of geometric object on PI. Central projection of basic geometric forms (point, line, surface). Oblique perspective. Image elements for direct detection of metric properties. Criteria for direct recognition of spatial relationships of objects. Rotation and conditional real measures. Concepts of visibility. Application to the more complex forms (straight figures, poyhedra, the rotational body, flat surface and intersections, etc.)
Visualization and geometric structures of complex 3D forms to the PI. Visible angle and set up of PI. Perspective from the angle and frontal perspective. Analysis of applicable surfaces in architecture: production surfaces, arches, vaults, domes, roofs etc.
Visual realism on the PI. Shadows. Mirrors. Central and parallel lighting. Typical elements of light rays for direct determination of the shadows on the PI. The images in horizontal, vertical and inclined mirrors.
Restitution of PI. Analysis criteria of PI for the detection of metric properties and spatial relationships of objects displayed on the PI.

4. Teaching methods:

Lectures. Graphic-Auditory Practice. Consultations. The course examination consists of two tests. Examination: written and final. (The written examination prerequisite is to have at least 35 points in examination prerequisites.)

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance	Yes	5.00	Oral part of the exam	Yes	10.00
Graphic paper	Yes	20.00	Practical part of the exam - tasks	Yes	20.00
Graphic paper	Yes	20.00			
Lecture attendance	Yes	5.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	R. Štulić	PERSPEKTIVA	FTN, Novi Sad	2006
2,	R. Štulić	PERSPEKTIVA - podloge za predavanja	Novi Sad	2006
3,	R. Štulić, V. Stojaković	Praktikum za vežbe iz Perspektive	Novi Sad	2007
4,	P. Anagnosti	PERSPEKTIVA	Naučna knjiga, Beograd.	1998
5,	H. Anđelković	PERSPEKTIVA	Univerzitet u Nišu, Niš.	1990
6,	S. Živanović i dr.	NACRTNA GEOMETRIJA 2	Naučna knjiga, Beograd.	2000

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:		Descriptive Geometry in Geomatics
Course id:	GI104	
Number of ECTS:	4	
Teachers:		Navalušić V. Slobodan, Štulić B. Radovan
Course status:		Elective

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

Precondition courses: None

1. Educational goal:

Developing spatial visualisation abilities, spatial imagination abilities, and ability of solving problems in various mutual spatial relations of three-dimensional (3D) geometric forms on two-dimensional (2D) presentation of parallel projection as a basis for 3D analysis of every 2D presentation.

2. Educational outcomes (acquired knowledge):

Ability to identify and interpret spatial relations of the learnt spatial shapes from appropriate 2D presentations, as well as to know their geometric structures; ability for optimal graphic presentation of learnt 3D configurations via characteristic perspectives and spatial presentations on 2D media.

3. Course content/structure:

General on projections. Perspective colinearity and affinity. Monge`s method. Orthogonal projection on two and more planes. Basic relations of geometric elements and bodies. Positional and metric tasks. Geometric body in general position, tangent planes. Axonometry. Skew and orthogonal axonometry, Eckhardt`s method. Projecting basic geometric elements and bodies. Projecting complex solids. Orthogonal axonometry of a globe (equator, parallels, zero and set meridians). Cross sections. Plane cross sections of polyhedral solids and surfaces of the second order and rotational surfaces in Monge`s projections and axonometric images. Penetration of the line through a plane. Cross sections of bodies and planes.
Practice: Constructive – computer programme elaboration.

4. Teaching methods:

Lectures. Graphic – auditory practice. Tutorials.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance	Yes	5.00	Oral part of the exam	Yes	10.00
Graphic paper	Yes	20.00	Practical part of the exam - tasks	Yes	40.00
Lecture attendance	Yes	5.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Gordon, V. O.	A course in descriptive geometry	MIR Publishers – Moscow	1980
2,	Loving, R. O., Hill, I. L., Pare, R. C.	Descriptive Geometry	Prentice Hall PTR, New York	1996
3,	R. Stulic	Podloge za predavanja		2012

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:	GI107	
Number of ECTS:	8	
Teachers:		Sladoje Matić I. Nataša, Kostić Z. Marko
Course status:		Mandatory

Number of active teaching classes (weekly)

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

Precondition courses

1. Educational goal:

Enabling students in abstract thinking and acquiring basic knowledge in the field of mathematical analysis (limit processes, differential and integral calculations, common differential equations).

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in further education and in professional courses to make and solve mathematical models from the professional courses by using the course content from the Mathematical Analysis 1.

3. Course content/structure:

Lectures (theoretical classes): Numerical sequences. Limit value, continuity of functions. Real functions with one real variable (limit value, continuity, differential calculation and application, infinite integral, finite integral and application, improper integral).Multivariate calculus (limit value, continuity, derivatives and application). Ordinary differential equations of first and higher order. Linear differential equations of n-th order. Laborations: At practice, adequate examples from lectures are presented to practice the course content, which also helps in better understanding of the presented content.

4. Teaching methods:

Lectures. Computing practice. Consultations. Lectures are combinatory. At lectures, theoretical content is presented and illustrated with characteristic examples for better understanding. At practice that follow lectures, characteristic tasks are done to deepen the understanding of the presented content. Apart from lectures and practice, consultations are held regularly. A part of the content, making a larger logical unit, can be passed during the teaching process in the form of 5 modules (first module: limit processes, second module: differential calculations of a real function with one real variable, third module: differential calculation of real functions with several real variables, fourth module: integral calculations, fifth module: common differential equations).

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	60.00
Test	Yes	10.00	Oral part of the exam	Yes	10.00
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	I. Kovačević, N. Ralević	Matematička analiza 1- (prvi deo) Granični procesi	Symbol,Novi Sad	2007
2,	I. Kovačević,V.Marić, M. Novković,B.Rodić	Matemarička analiza 1 - drugi deo	Symbol, Novi Sad	2007
3,	M. Novković, B. Rodić,S.Medić, I. Kovačević	Zbirka rešenih zadataka iz Matematičke analize 1	Symbol, Novi Sad	2007
4,	I.Kovačević,B.Rodić,S.Medić, V.Ćurić	Testovi ispita iz Matematičke analize 1	Symbol, Novi Sad	2007

Table 5.2 Course specification

Course:	Geodesy 1
Course id: GI110	
Number of ECTS: 6	
Teacher:	Gučević P. Jelena
Course status:	Mandatory

Number of active teaching classes (weekly)

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

Precondition courses: None

1. Educational goal:

To acquire basic and applied knowledge in the field of geodesy, geomatics and geoinformatics.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in professional courses, as well as in the recognition and in solving the engineering problems.

3. Course content/structure:

Lecture content: - Fundamental notions of triangulation as a method for determining the geodetic basic points. - Designing, stabilization and signalization of trigonometric points. - Methods for measuring lines and angles. - Observing lines from eccentric standpoints, and centralizing them. - Reducing lines sensitive to eccentric signals. - Fundamentals in calculating in Cartesian coordinate system. - Determining approximate coordinates. -Fundamentals of trilateration. Practice content: Practical application of the presented concepts from lectures.

4. Teaching methods:

Prerequisites: 30% of points should be provided through the obligatory tasks, during the teaching process. Examination: Knowledge evaluation: practical tasks, final examination – oral form.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance	Yes	5.00	Oral part of the exam	Yes	40.00
Lecture attendance	Yes	5.00	Practical part of the exam - tasks	Yes	30.00
Test	Yes	20.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Mihailović Krunislav	Geodezija 1	Građevinski fakultet, Beograd	1981
2,	Aleksandar Begović	Primenjena geodezija	Građevinski fakultet Beograd	1979
3,	V.G. Selihanovič, V.P. Kozlov, G.P. Loginova	Praktikum po geodezii	Nedra, Moskva	1978
4,	Krunislav Mihajlović, Krsta Vračarević	Geodezija 1	Naučna knjiga, Beograd	1989
5,	Miloje Mitić	Geodezija I	Naučna knjiga, Beograd	1962

Table 5.2 Course specification

Course:		Fundamentals in Geosciences
Course id:	GI102	
Number of ECTS:	3	
Teacher:		Vasić V. Milinko
Course status:		Mandatory

Number of active teaching classes (weekly)

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

Precondition courses: None

1. Educational goal:

To acquire basic and applied knowledge in the field of geodesy, geomatics and geoinformatics. Introducing the areas of geosciences and scientific geodisciplines.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in professional courses, as well as in the recognition and in solving the engineering problems.

3. Course content/structure:

Lecture content:
- Elements of cosmology
- Solar system
- Atmosphere and meteorology
- Hydrosphere and hydrology
- Earth`s core
- Earth`s rotation
- Geophysics – gravitational field, magnetic field, heating field, geoelectric field
- Electrical properties of rocks and seismic methods
- Geology – minerals and rocks, geological timing, tectonics and relief, hydrogeology
- Seismology
- Domains of geosciences – geostatics, ecology, biology

Practice content:
Practical application of the presented concepts from lectures.

4. Teaching methods:

Prerequisites: obligatory tasks, during the teaching process. Teaching methods and knowledge evaluation: - Lectures; computing practice, consultations - A part of the course content making a logical unit can be taken as a partial examination. Final examination: oral part of the examination.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Complex exercises	Yes	30.00	Coloquium exam	No	20.00
			Theoretical part of the exam	Yes	30.00
			Oral part of the exam	Yes	40.00

Literature

Ord.	Author	Title	Publisher	Year
1,	B. Glavatović,	Osnovi geonauka	Seizmološki zavod Crne Gore, Podgorica	2005
2,	Raymond E. Davis, Francis S. Foote	Surveying theory and practice	McGraw/Hill Book Company, INC.	1953

Table 5.2 Course specification

Course:		Geodetic Measuring Techniques
Course id:	GI202	
Number of ECTS:	4	
Teacher:		Gučević P. Jelena
Course status:		Mandatory

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

Precondition courses: None

1. Educational goal:

To acquire basic and applied knowledge in the field of geodesy, geomatics and geoinformatics. To acquire basic and applied knowledge in the field of geodetic measuring techniques.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in professional courses, as well as in the recognition and in solving the engineering problems.

3. Course content/structure:

Lecture content: 1. Fundamental techniques for geodetic measuring 2. Geodetic instruments 3. Measuring errors 4. Standards in surveying, in the world and in the country 5. Contemporary systems in surveying 6. Satellite systems (basic properties of the existing systems: GPS, GLONAS, GALILEO …) 7. Designing papers during - Realization of mathematical basis for surveying - Data gathering during data gathering on spatial elements (detail surveying), (project content, definition of project tasks, selection of surveying method, analysis on surveying method, content of technical report) Practice content: Practical application of the knowledge acquired in lectures.

4. Teaching methods:

Prerequisites: obligatory tasks, during the teaching process. Knowledge evaluation: final examination – oral form.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Graphic paper	Yes	10.00	Oral part of the exam	Yes	50.00
Test	Yes	40.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	George Taylor, Geoff Blewitt	Inteligent Positioning – GIS – GPS Unification	Wiley	2006
2,	Perović Gligorije	Precizna geodetska merenja	autor, Beograd	2007
3,	G. Zlatanov, C. H. Weir, J. Holsen	Survey Instruments and Methods	International Federation of Surveyors	1981
4,	Raymond E. Davis, Francis S. Foote	Surveying theory and practice	McGraw/Hill Book Company, INC.	1953
5,	Miodrag Jovanović	Gradska trigonometrijska mreža	Geokarta, Beograd	1963

Table 5.2 Course specification

Course:		Information technologies in geodesy			
Course id:	GI111				
Number of ECTS:	6				
Teachers:		Vidaković P. Milan, Malbaški T. Dušan			
Course status:		Mandatory			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
2	0	2	0	1	
Precondition courses		None			

1. Educational goal:

Mastering object-oriented technologies.

2. Educational outcomes (acquired knowledge):

Student acquires basic knowledge in theory, modelling and implementation of object-oriented programming.

3. Course content/structure:

Lecture content:
- Introduction to object-oriented (OO) software engineering, OO paradigm,
- Fundamental concepts: objects, classes, links and messages,
- Basic properties: object identity; inheriting properties, classes and interface; hiding implementations, polymorphism and persistence,
- OO data model
- Basic concepts of the unified modelling language (UML),
- OO system model – structure model and behaviour model,
- Fundamentals in methodological approach to the development of OO software product – unified process,
- Basic concepts and syntax of a selected OO language,
- Techniques in OO programming.

Practice content:
Practical application of the presented concepts from lectures.

4. Teaching methods:

Lectures: computer practice, consultations, individual elaboration of obligatory tasks.

Prerequisites: obligatory tasks, during the teaching process.

Knowledge evaluation: guided and individual elaboration of obligatory tasks; partial examination – written form, final examination – oral form.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project defence	Yes	50.00	Coloquium exam	No	20.00
			Oral part of the exam	Yes	50.00

Literature				
Ord.	Author	Title	Publisher	Year
1,	Bruegge B, Dutoit A	Object-Oriented Software Engineering	Pearson Education Interantional	2004
2,	Booch G, Jacobson I, Rumbaugh J, Rumbaugh J	THE UNIFIED MODELING LANGUAGE USER GUIDE	Addison- Wesley	1998
3,	Eckel B	THINKING IN JAVA, Second Edition	Prentice Hall	2000

Table 5.2 Course specification

Course:		English Language – Intermediate
Course id:	EJ2L	
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

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	2006

Table 5.2 Course specification

Course:		Sociology of Technique
Course id:	M318	
Number of ECTS:	2	
Teacher:		Radivojević D. Radoš
Course status:		Elective

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:

Training engineers to understand the social importance and role of technique in the society development, positive and negative impact of the technique on the development of society and people, as well as personal social importance and responsibility in creating human society.

2. Educational outcomes (acquired knowledge):

Acquisition of social knowledge about characteristics, sources, social function of techniques and creators of technical knowledge; acquisition of knowledge about the impact of nature of social systems on technical development and the impact of technique on society development; acquisition of knowledge about the impact of technique on the processes and changes in the modern society: globalization, changing the working contents and forms of working organization; changes in communication, culture, education, democracy, ways of life and opinions of people, acquisition of knowledge about negative aspects of technical development: nature destruction, alienation in work, creating the risky society.

3. Course content/structure:

Technical knowledge: characteristics and special technical functions, sources of technical knowledge, creators of technical knowledge, spreading of the technical knowledge, scientific-technical potential, relationship between science and technique. Relationship between technique and society: social impact on the technical development and technical impact on the social development – Industrial and Informatics society. Technical impact on life, awareness and culture. Technique and globalization: causes and dimensions of globalization, technological gap, brain drain; Technique and working organization: flexible production, network organizations, knowledge economy, electronic economy. Technique and work: shortening the working hours, change of working contents, decline of the work importance. Technique and alienation in work: technical impact on the alienation in work, forms of alienation, humanization of work. Mass media and communications: global television, television impact on the society, theory of media, mobile telephony and internet, internet impact on the society, media imperialism, mass culture, cyber criminal. Technique and education: education and new communication technologies, education and technological gap, virtual universities, intelligence and educational success. Technique and democracy: global media and spreading of the liberal democracy, media and virtual reality, resistance and alternative to global media. Technique and ecological crisis: global working, genetically modified food, technical risks, technical society as a risky society. Technical intelligence: social position and impact, engineering ethics.

4. Teaching methods:

During the lectures a problem is presented and then students start the discussion where they ask questions and give objections and supplements to the presented knowledge.

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	50.00
Test	Yes	45.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Radoš Radivojević	Tehnika i društvo	Fakultetet tehničkih nauka	2004
2,	Entony Gidens	Sociologija	Ekonomski fakultet	2003
3,	Chris Barker	Television,Globaliization and Cultural Identities	Open University Press	1999
4,	James Stevin	The internet and Society	Camridge, Polity	2000
5,	Radoš Radivojević	Sociologija nauke	Stylos	1997
6,	Eugene Loos, Enid Mante-Meijer, Leslie Haddon	The Social Dynamics of Information and Communication Technology	Ashgate	2008
7,	Wenda K. Bauchspies, Jennifer Croissant, Sal Restivo	Science, Technology and Society: A Sociological Approach	John Wiley & Sons	2005
8,	Jan L. Harrington	Technology and Society	Jones & Bartlett	2011
9,	Deborah G. Johnson, Jameson M. Wetmore	Technology and Society: Building our Sociotechnical Future	MIT Press	2009

Table 5.2 Course specification

Course:		English Language – Advanced
Course id:	EJ3L	
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

1. Educational goal:

Knowledge about the most important terms in English for Specific Purposes related to students' future profession. Developing strategies for understanding foreign language texts. Ability to read and understand original English texts related to various aspects and areas in the field of study. Developing oral and written communication related to these topics using adequate vocabulary and complex sentence structure.

2. Educational outcomes (acquired knowledge):

Students acquire a wide vocabulary related to their field of study. They can use professional literature in this field and communicate about professional topics in English, using terms and sentence structures characteristic of their future profession.

3. Course content/structure:

Analysis of a number of contemporary texts related to various aspects and topics related to students future profession. Developing strategies for understanding ESP texts such as: skimming, scanning, comparing sources, using context, using background knowledge, etc. Mastering most frequent terms related to students' future profession. Acquiring language functions such as comparison, classification, describing purpose and function, describing components, cause and effect relations, etc. Most frequent prefixes, suffixes, compounds and collocations. Passive constructions, participle constructions. Reduced relative clauses (active and passive), reduced time clauses (active and passive).

4. Teaching methods:

Emphasis is on students' communicating among themselves and with the teacher. Teaching is done using communicative method of language learning. Exercises are designed in such a way as to aid and check text comprehension and to practice suitable vocabulary and other characteristic elements of ESP. Some of the exercises are purposefully designed to encourage students to use their knowledge of the subject area and make comments and explanations which provide additional language practice.

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 Glendinning, John McEwan	Oxford English for Information Technoglogy	Oxford University Press	2006
2,	Edita Čavić	English in Architecture	Naučna knjiga, Beograd	2001
3,	John Eastwood	Oxford Practice Grammar-Intermediate	Oxford University Press	2000
4,	grupa autora	Oxford English-Serbian Dictionary	OUP	2000

Table 5.2 Course specification

Course:		Economy			
Course id:	M317				
Number of ECTS:	4				
Teachers:		Lošonc N. Alpar, Marić B. Branislav			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
2	2	0	0	0	
Precondition courses		None			

1. Educational goal:

The main educational objective is to enable students for adapting to market demands. Student, the future engineer, acquires the economic knowledge necessary to successfully realize their goals (within diverse companies) during the transitional and post-transitional period in Serbia. Educational objective is observed in the fact that the future engineer can combine engineering and economical dimensions of their work in an adequate manner. It is necessary to consider that the transition processes are performed in the context of globalization, and that the educational objective is related to developing the capacity of students` adaptation to world surroundings. Furthermore, educational objective is also related to the development of students` capacities in their field of interest in the sense of their future innovations, regeneration of their economic knowledge on the market in order to survive and successfully realize tasks in dynamic markets of today.

2. Educational outcomes (acquired knowledge):

Acquiring economical knowledge of practical characteristics that enables future engineers in the application of economic categories to all areas of interest and to coordinate technical processes with economic demands. Positive educational outcome is seen in developing the ability of an insight into the merging of economic and engineering aspects of engineering work. Economic knowledge implies primarily to handle the categories of costs and benefits, and implies also the managerial knowledge in relation to contemporary organizations and in relation to infrastructure. It means that the acquired knowledge entirely enables students for economical life.

3. Course content/structure:

Costs and benefits. Basic modalities of costs in a company. Manners of calculating costs. Price and significance of price modelling for a company. Laws of offer and demand that determine economical and engineering life. Category of profit. Manners of determining prices. Synthesis of engineering and economic criteria. Economy of companies and entrepreneurship. Company and market structure. Economic dimensions and organization principles. Modularity and economy of companies. Manager as an entrepreneur and managing forms. Forms of managing a company. Analysis on economic aspects of a hierarchy in a company. Forms of companies. Manager as an expectation creator in a company in the light of synthesis of economic and engineering criteria. Transaction costs in a company. Economics of idiosyncrasies. Transaction costs and innovativeness in a company. Economic aspects of innovations in a company.

4. Teaching methods:

Students are introduced to adequate aspects of theoretical, including relevant, problems, and the emphasising point is on practical applications of laws related to relations in economy. It implies the usage of practical applications, and the analysis on diverse cases based on which students can get an insight into the tendency of contemporary market economy.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Homework	Yes	50.00	Oral part of the exam	Yes	50.00

Literature

Ord.	Author	Title	Publisher	Year
1,	K. Josifidis, A. Lošonc	Principi ekonomije	Stylos	2004
2,	Hal Varian	Mikroekonomija moderan pristup	Ekonomski fakultet u Beogradu	2003
3,	EDQUIST, C.	Systems of Innovation	Pinter	1997

Table 5.2 Course specification

Course:		German Language - Elementary
Course id:	NJ1L	
Number of ECTS:	3	
Teachers:		Berić B. Andrijana, Jović Đ. Miomira
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 German language: pronunciation, spelling, acquisition of vocabulary related to simple, everyday situations, mastering the basics of German morphology.

2. Educational outcomes (acquired knowledge):

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

3. Course content/structure:

Practical part of the course: mastering basic speech patterns, pronunciation and spelling rules; developing listening skills. Vocabulary related to everyday topics: introduction, family, free time, work, food and beverages, naming and description of everyday objects, description of people and places, understanding directions, introduction to German culture, etc. Theoretical part of the course: present, perfect, reflexive verbs, cases, use of definite and indefinite article, negation, interrogative sentences, statements, possessive pronouns, demonstrative pronouns, indefinite pronouns, modal verbs, imperative, comparison of adjectives, some prepositions, sentences with denn, deshalb, sonst and trotzdem.

4. Teaching methods:

Emphasis is on communicative method and students' activity in class. Interaction between students is encouraged in communication.

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	35.00
Test	Yes	10.00	Oral part of the exam	Yes	35.00
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Aufderstraße, Bock, Gerdes, J. Müller, H. Müller	Themen aktuell 1	Hueber Velag	2003

Table 5.2 Course specification

Course:		Mathematical Analysis 2
Course id:	E135B	
Number of ECTS:	7	
Teachers:		Sladoje Matić I. Nataša, Kostić Z. Marko
Course status:		Mandatory

Number of active teaching classes (weekly)

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

Precondition courses

1. Educational goal:

Enabling students in abstract thinking and acquiring basic knowledge in the field of mathematical analysis.

2. Educational outcomes (acquired knowledge):

Student is competent, in further education and in professional courses, to make and solve mathematical models in the field of mathematical analysis (order theory, integral function with more variables, complex analyses).

3. Course content/structure:

Numerical seres, functional series, power series. Double, curve, triple and surface integral. Vector analysis – scalar and vector field, gradient, divergence, curl, integral of a function with vector variable. Laplace transform.

4. Teaching methods:

Lectures. Computing practice. Consultations. Lectures are combinatory. At lectures, theoretical content is presented and illustrated with characteristic examples for better understanding. At practice that follow lectures, characteristic tasks are done to deepen the understanding of the presented content. Apart from lectures and practice, consultations are held regularly. A part of the content, making a larger logical unit, can be passed during the teaching process in the form of 3 modules (first module: double and triple integrals, second module: curve and surface integrals; third module: series). Oral part of the final examination is obligatory.

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	60.00
Test	Yes	10.00	Oral part of the exam	Yes	10.00
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Mila Stojaković	Matematička analiza 2	Vedes, Beograd	2003
2,	Nebojša Ralević, Lidija Čomić	Zbirka rešenih zadataka iz matematičke analize 2	FTN	2005

Table 5.2 Course specification

Course:		Geodesy 2
Course id:	GI203	
Number of ECTS:	5	
Teacher:		Trifković N. Milan
Course status:		Mandatory

Number of active teaching classes (weekly)

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

Precondition courses: None

1. Educational goal:

Acquiring basic and applied knowledge in the field of geodesy, geomatics and geoinformatics.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in professional courses, as well as in the recognition and in solving engineering problems.

3. Course content/structure:

Lecture content: - Polygon mesh - Connecting a polygon mesh to higher order points - Recognizing terrain, designing and stabilizing polygon points - Measuring angles and distances in polygonometry, sources of errors and their influence on the final result - Correcting distances measured directly and indirectly, determining audition and multiplication constants of electronic measuring devices - Correcting distances due to the influence of atmospheric parameters, deformations of Gauss-Kruger projection - Principles for determining orthometric heights of points - General levelling, classification, regulations and working conditions. Stabilization of levelling networks, referential points and calculation of levelling trains - Sources of errors in levelling due to the influence of atmospheric parameters, device imperfections and personal mistakes - Trigonometric measuring of height differences, influence of refraction, Earth`s curves and absolute point heights on the obtained measuring result -Surveying details using orthogonal and polar method with automatic registration and data processing. Practice content: Practical application of presented concepts from lectures.

4. Teaching methods:

Prerequisites: obligatory tasks during the teaching process. Knowledge evaluation: guided and individual elaboration of obligatory tasks; final examination – oral form.

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	Oral part of the exam	Yes	70.00
Homework	Yes	5.00			
Homework	Yes	5.00			
Homework	Yes	5.00			
Lecture attendance	Yes	5.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Petr Vaníček i Edward J. Krakiwsky	Geodezija: Koncepti (prevod sa engleskog jezika)	Savez geodeta Srbije - Geodetski žurnal	2005
2,	Perović Gligorije	Priručnik za praktičnu nastavu iz geodezije 2	Građevinski fakultet, Beograd	1979
3,	Miloje Mitić	Geodezija 2	Građevinska knjiga, Beograd	1963
4,	Aleksandar Begović	Primenjena geodezija	Građevinski fakultet Beograd	1979
5,	V.G. Selihanovič, V.P. Kozlov, G.P. Loginova	Praktikum po geodezii	Nedra, Moskva	1978
6,	Krunislav Mihailović, Krsta Vračarić	Geodezija III	Naučna knjiga, Beograd	1985

Table 5.2 Course specification

Course:		Basic cartography
Course id:	GI204A	
Number of ECTS:	4	
Teachers:		Borisov A. Mirko, Benka P. Pavel
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:

Acquiring basic and applied knowledge in the field of geodesy, geomatics and geoinformatics. Acquiring basic and applied knowledge in the field of basic cartography and digital cartography with the visualization of geodata.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in professional courses, as well as in the recognition and in solving the engineering problems.

3. Course content/structure:

Content of lectures: The goal and the mean of map usage. Content of map: hydrography, relief, communications, settlements, vegetation, classification of geospatial data. Cartography and cartographic projections. Development of cartography. Basic of cartography. Modeling of cartographic products. Design of maps: resolution, colors, text and symbology, size of files. Digital cartography. Cartographic information systems and internet. Designing of internet maps: resolution, colours, text and symbology, size of files. Animation in cartography. Visualization of geospatial data. Content of skills: Practice applications.

4. Teaching methods:

Teaching methods include lectures, computer practice, consultations , independent and guided work on obligatory assignments. Evaluation test in written form; final examination is oral.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Computer excersise defence	Yes	30.00	Coloquium exam	No	20.00
Lecture attendance	No	5.00	Theoretical part of the exam	Yes	50.00
Term paper	Yes	20.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Christopher Jones	Geographical Information Systems and Computer Cartography	Longman	1997
2,	Grupa autora	Specialization Surveying and Cartography	Faculty of Civil Engineering Prague	1984
3,	Peterca M, i drugi	Kartografija	VGI Beograd	1974
4,	Robinson, A., and others	Elements of Cartography	USA	1995
5,	Borisov, M.	Razvoj GIS	Zadužbina Andrejević	2006

Table 5.2 Course specification

Course:		Information Systems and Databases
Course id:	GI205	
Number of ECTS:	4	
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:
2	0	2	0	0

Precondition courses

1. Educational goal:

Basic education in the field of information systems and databases. Enabling students in following projects in the filed of information system and database development.

2. Educational outcomes (acquired knowledge):

Introduction to the notion and role of information systems in an organization system. Introduction to current data models, especially relation model. Mastering basic techniques in the application of structured query language (SQL) on database servers.

3. Course content/structure:

Types of information systems. Procedures for developing information systems. Process modelling. Data file organization. Notion of a database (DB). System for database management. Basic concepts and properties of data models. ER data model. Relational data model. Classification and types of limitations in relational data model. Functional dependency and the key relation schemes. Usage of the query language SQL in describing database schemes and in data manipulation in DB. Basic transaction processing. Distributed databases. Data storage systems.

4. Teaching methods:

Teaching is held in the form of lectures, auditory and computer practice (in computer laboratory) and consultations. During the entire teaching process, students are encouraged to participate in an active communication, critical thinking, individual work, as well as in active relationship toward the teaching process. A precondition for obtaining the signature of attendance and for taking the final examination is having all prerequisites done.

Knowledge evaluation (maximum 100 points)

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

Literature

Ord.	Author	Title	Publisher	Year
1,	Mogin P, Luković I.	Principi baza podataka	Fakultet tehničkih nauka, Novi Sad	1996
2,	Mogin P.	Strukture podataka i organizacija datoteka	Fakultet tehničkih nauka, Novi Sad	1994
3,	Date C. J.	An Introduction to Database Systems	Addison Wesley	2004
4,	Mihajlović D.	Informacioni sistemi i projektovanje baza podataka	Fakultet tehničkih nauka, Novi Sad	1998

Table 5.2 Course specification

Course:	Systems and Signals in Geomatics
Course id: GI206	
Number of ECTS: 5	
Teachers:	Jorgovanović Đ. Nikola, Kecman M. Vojislav
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:

To acquire basic and applied knowledge in the field of geodesy, geomatics and geoinformatics. To acquire basic and applied knowledge in the field of systems and signals in geomatics.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in professional courses, as well as in the recognition and in solving the engineering problems.

3. Course content/structure:

Lecture content:
- Sensors and systems for recording, platforms, feasibility.
- Electrical-optical and digital sensors, line scanners, matrix CCD cameras, thermal cameras, multi-spectrum cameras, hyper-spectrum scanners
- Spatial separation, modulation movable function
- Radar with the synthetic antenna, interferometric and polarimetric regime

Practice content:
Practical application of presented concepts from lectures.

4. Teaching methods:

Lectures, exercises, consultations.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Test	Yes	10.00	Coloquium exam	No	20.00
Test	Yes	10.00	Oral part of the exam	Yes	50.00
Test	Yes	10.00	Practical part of the exam - tasks	Yes	20.00

Literature

Ord.	Author	Title	Publisher	Year
1,	Alan V. Oppenheim et al	Signals and Systems (2nd Edition)	Prentice Hall; 2 edition	1996
2,	Barry F. Kavanagh	Geomatics	Prentice Hall; 1st edition	2002
3,	John E. Harmon and Steven J. Anderson	The Design and Implementation of Geographic Information Systems	Wiley	2003
4,	R. N. Trebits , J. L. Kurtz	Radar Sensor Technology	SPIE-International Society for Optical Engine	2000

Table 5.2 Course specification

Course:		Fundamentals in Civil Engineering
Course id:	GI308A	
Number of ECTS:	5	
Teachers:		Kočetov-Mišulić Đ. Tatjana, Kolaković R. Srđan
Course status:		Elective

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

Precondition courses: None

1. Educational goal:

To acquire basic knowledge in the field of civil engineering structures in relation with geodesy, geomatic and geoinformatic techniques in construction works.

2. Educational outcomes (acquired knowledge):

Acquired knowledge has direct application in professional courses in the recognition and solving of the engineering problems.

3. Course content/structure:

History of civil engineering, fields: buildings and structures, hydro technical and traffic objects and facilities. Classification and characteristics. Construction materials. Basics of buildings and halls. Basic structural elements – foundations, columns, beams, walls, slabs, floor structures, roof structures. Structural systems in buildings. Structural building facilities, basic elements of roads, railways and bridges. Basic of hydro-technical objects and systems: dams, river regulation, communal hydro technics, hydro-technical meliorations, flood defense. Application of geodesy in preparation of basic data for design and construction of civil engineering structures. Contemporary methods in construction. Spatial planning. Practical application and elaboration of presented concepts trough tasks and exerecises.

4. Teaching methods:

The course is given trough lectures, tutorials and oral exercises, as well as occasionally vistits to construction sites.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance	Yes	5.00	Oral part of the exam	Yes	30.00
Graphic paper	Yes	20.00			
Graphic paper	Yes	20.00			
Lecture attendance	Yes	5.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Kolaković S.	Pisana predavanja	FTN- Novi Sad	2007
2,	Tatjana Kočetov Mišulić	Pisana predavanja	FTN Novi Sad	2012
3,	Grupa autora	Građevinski tehničar, knjiga 1-5 (odabrana poglavlja)	GK Beograd	1992
4,	L.G. Kulkarni A.D. Pawar S.P.Nitsure	Basic Civil Engineering	Technical Publications Pune, on-line edition	2006

Table 5.2 Course specification

Course:		Electrical Engineering in Industrial Engineering
Course id:	I087	
Number of ECTS:	6	
Teachers:		Juhas T. Anamarija, Pekarić-Nađ M. Neda
Course status:		Elective

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

Precondition courses: None

1. Educational goal:

The course objective is to teach the students terminology and fundamental laws in electrical engineering, as well as to train them to solve electric circuits of direct current and time alternating current.

2. Educational outcomes (acquired knowledge):

Students who successfully complete the course know how to solve simple electrical circuits of direct current, to solve simple electric circuit with time harmonic currents, to calculate instantaneous, active, reactive and maximum power in circuits. After completing the course the students are able to individually solve simpler electrical engineering problems, to successfully communicate with their colleagues in the field and to be a successful part of a multidisciplinary team.

3. Course content/structure:

Conductors. Insulators. Current. Voltage. Sources of time constant current. Loads. Resistors. Inductors. Capacitors. Ohm`s law. Joule`s law. Power of resistors. Energy in inductors and capacitors. Simple circuits. Time constant currents. Kirchhoff`s laws. Maximum power transfer. Circuits with simple-periodic currents. Generators. Load. Impedance. Complex power. Power factor correction. Three-phase generator. Three-phase consumers. Three-phase motors. Transformers. Diodes. Rectifying circuits.

4. Teaching methods:

Teaching is held as lectures, with ocasional video presentations. Inductive method is applied. Based on the set of small examples, knowledge is obtained and built into an engineering intuition. Students should do laboratory exercises with simple circuits of time constant and time harmonic currents.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Laboratory exercise attendance	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,	Giorgio Rizzoni	Principles and applications of electrical engineering	McGraw Hill	2006
2,	Anamarija Juhas, Miodrag Milutinov, Neda Pekaric Nadj	Zbirka zadataka iz osnova elektrotehnike za strukovne studije	Edicija FTN	2012

Table 5.2 Course specification

Course:	Mean Value Calculation
Course id: GI210	
Number of ECTS: 6	
Teacher:	Bulatović S. Vladimir
Course status:	Mandatory

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

Precondition courses: None

1. Educational goal:

To acquire basic and applied knowledge in the field of geodesy, geomatics and geoinformatics. To acquire basic and applied knowledge in the field of measuring data processing and the accuracy assessment of measured values.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in professional courses, as well as in the recognition and in solving the engineering problems.

3. Course content/structure:

Lecture content: - Mathematical definition of geodetic networks - Geometric determination of geodetic networks - Free and non-free networks - Mean value of geodetic networks - Accuracy assessment and quality control - Network quality criteria Practice content: Practical application of the presented concepts from lectures.

4. Teaching methods:

Prerequisites: obligatory tasks, during the teaching process. Examination: Knowledge evaluation: guided and individual elaboration of obligatory tasks; partial examination – written form, final examination – written form.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	30.00	Coloquium exam	No	20.00
			Coloquium exam	No	20.00
			Oral part of the exam	Yes	30.00
			Practical part of the exam - tasks	Yes	40.00

Literature

Ord.	Author	Title	Publisher	Year
1,	Gligorije Perović	Račun izravnanja knjiga 1 - Teorija grešaka merenja	Naučna knjiga, Beograd	1989
2,	Gligorije Perović	Singularna izravnanja	Naučna knjiga, Beograd	1986
3,	Gligorije Perović	Metod najmanjih kvadrata	autor, Beograd	2005
4,	A. Muminagić, V. Jovanović	Račun izravnanja	Vojnogeografski institut	1965
5,	Nikola Svečnikov, Aleksandar Kostić	Račun izravnanja – Teorija grešaka	Merkur, Beograd	1937
6,	Gligorije Perović	Račun izravnanja i teorija grešaka merenja	Naučna knjiga, Beograd	1984

Table 5.2 Course specification

Course:		Geoinformatics			
Course id:	GI211				
Number of ECTS:	4				
Teachers:	Govedarica J. Miro, Vidaković P. Milan, Galić P. Zdravko				
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:

To acquire basic and applied knowledge in the field of geodesy, geomatics and geoinformatics. To learn how to use CAD tools and special purpose tools for georeferencing and vectorization of cadastral maps.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in professional courses, as well as in the recognition and in solving the engineering problems using geoinformatics skills.

3. Course content/structure:

Modelling spatial entities, raster and vector models, modelling space geometry, modelling space topology, modelling space topography. Surface modelling. Decomposition of spatial elements. Data models. Data formats. Standard patterns and models in modelling and implementing geometry, topology and thematic content of spatial elements. Standardization in the field of geoinformation systems and technologies – OpenGis, ISO TC211. Algorithms for vector graphics. Algorithms for raster graphics. Digitalization. Vectorization. Georeferencing. Indexing spatial elements. Space transformation. Transformation algorithms. Multi-dimensional spaces and transformations. 3D space. 3D space modeling, DEM, DTM, TIN. Use of GIS i CAD tools.

4. Teaching methods:

Teaching forms: lectures, computer practice, consultations, individual elaboration of obligatory tasks. Knowledge evaluation: guided and individual elaboration of projects and final examination – oral form.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Computer excersise defence	Yes	50.00	Oral part of the exam	Yes	30.00
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Keith R. McCloy	Resource Management Information System Remote Sensing GIS and Modelling	Taylor & Francis	2006
2,	C.P. Lo, Albert K. W. Yeung	Concepts and Techniques of Geographic Information Systems	Prentice Hall, Upper Saddle River, New Jersey	2002
3,	Peter A. Burrough, Rachael A. McDonnell	Principi geografskih informacionih sistema	Građevinski fakultet Beograd	2006
4,	C. Jones	Geographical Information Systems and Computer Cartography	Pearson Education Inc.	1997
5,	Mirza Ponjavić	Osnovi geoinformacija	Univerzitet u Sarajevu, Građevinski fakultet	2011

Table 5.2 Course specification

Course:		Automatic control systems in geomatics
Course id:	GG226	
Number of ECTS:	8	
Teachers:		Ristić V. Aleksandar, Petrovački Lj. Nebojša
Course status:		Mandatory

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

Precondition courses: None

1. Educational goal:

Students learn about theoretical and practical bases of science of system control

2. Educational outcomes (acquired knowledge):

The acquired knowledge can be used in solving practical engineering problems and forms a basis for future engineering subjects

3. Course content/structure:

Basic concepts and principles of the automatic control systems . Mathematical description of continuous linear and nonlinear systems. Rating the quality of governance in the stationary and transient regime. Stability analysis of systems analysis methods. The concept of the state space of the system. Selection and setup parameters of industrial controllers: PID controller. Introduction to digital control systems, the basic characteristics of industrial control devices. Applications for automated geodetic surveying: the management of machine elements and working in agriculture, transport and construction, motion control robotic total station.

4. Teaching methods:

Llectures, calculation, laboratory and computer-laboratory practice. Consultation. Test and the written part of the examination shall be in written form part of the final exam is oral. Exam score is based on the success of the tests, and the final written exam.

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	30.00
Test	Yes	10.00	Coloquium exam	No	20.00
Test	Yes	10.00	Oral part of the exam	Yes	40.00

Literature

Ord.	Author	Title	Publisher	Year
1,	M. Stojić	Kontinualni sistemi automatskog upravljanja	Naučna knjiga, Beograd	1996
2,	D. Kukolj, V. Bengin, F. Kulić	Osnove klasične teorije automatskog upravljanja kroz rešene primere	Somel, Sombor	1995
3,	D. Kukolj, F. Kulić	Projektovanje sistema automatskog upravljanja u prostoru stanja	Univerzitet u Novom Sadu, Novi Sad	1995
4,	R. C. Dorf, R. H. Bishop	Modern Control Systems	Addison Wesley, USA	2008
5,	Ahmed El-Rabbany	Introduction to GPS: the Global Positioning System	Artech House	2002
6,	Nel Samama	Global Positioning:Technologies and Performance	John Wiley and Sons	2008

Table 5.2 Course specification

Course:	GNSS basics
Course id: GI207	
Number of ECTS: 4	
Teachers:	Govedarica J. Miro, Bulatović S. Vladimir, Đapo R. Almin
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:

To acquire knowledge in GPS technologies, and to get introduced to the fields of their application.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in further education.

3. Course content/structure:

Lecture content: - Concept and characteristics of GNSS - Short fundamentals on satellite geodesy, referential systems related to GNSS, survey and characteristics of observed values, measuring methods and mathematical positioning methods - Performing GNSS measuring and data processing, short overview on geodetic dates and data transformation among them, survey on GNSS application - Basic principles in working with DGNSS - Mathematical models, coordinate systems in function, practical problems - Navigation using GNSS - Methods for determining and techniques for searching ambiguities both for phase data and the combination of code and phase data - GNSS application in: geodesy, geodynamics, tectonic plate movement with time alternating coordinates, navigation, Space - Diverse systems for global positioning: TRANST, DORIS, GLONASS, GPS, GALILEO. Location-based services Practice content: Practical application of presented concepts from lectures.

4. Teaching methods:

Up to 70% of points could be provided through the obligatory tasks, during the teaching process and practical part of the exam. Final examination – oral form.

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
Homework	Yes	5.00	Oral part of the exam	Yes	30.00
Homework	Yes	5.00	Practical part of the exam - tasks	Yes	40.00
Homework	Yes	5.00			
Lecture attendance	Yes	5.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	C. Jones	Geographical Information Systems and Computer Cartography	Pearson Education Inc.	1997
2,	C. Rizos	Introduction to GPS	University of New South Wales	1999

Table 5.2 Course specification

Course:		Photogrammetry
Course id:	GI209	
Number of ECTS:	4	
Teachers:		Govedarica J. Miro, Borisov A. Mirko, Đapo R. Almin
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:

To acquire basic and applied knowledge in the field of photogrammetry.

2. Educational outcomes (acquired knowledge):

Knowledge of complete photogrammetric process. Ability to process photographs and produce three-dimensional models of varying objects.

3. Course content/structure:

Fundamental terminology of photogrammetry. Image formation theory (analogue and digital). Image geometry (central projection, orthophoto, scanners). Planning of data acquisition process. Photo orienteering. Direct and indirect determination of orientation elements. Triangulation. Stereo photography and mensuration. Generation of models. Extraction of 3D data. Orthorectification. Basics of digital image processing. Digital photogrammetry. Accuracy aspects.

4. Teaching methods:

Teaching methods include lectures, computer practice, consultations. Evaluation: guided and independently developed three obligatory assignments; four written tests; final examination is oral.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Computer excersise defence	Yes	10.00	Oral part of the exam	Yes	30.00
Computer excersise defence	Yes	10.00			
Computer excersise defence	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	P. Mather	Computer Procesding of Remotly-Sensed Images: An Introduction	John Wiley&Sons, Ltd	2004
2,	Keith R.McCloy	Resource Management Information Systems:Remote Sensing, GIS and Modelling	Taylor&Francis	2006
3,	Christopher Jones	Geographical Information Systems and Computer Cartography	Longman	1997
4,	M. Dražić	Fotogrametrija 2	Građevinska knjiga, Beograd	1965
5,	Dušan Joksić	Fotogrametrija I	Naučna knjiga, Beograd	1983
6,	V.I. Pavlov	Matematičeskaja obrabotka fotogrammetričeskih izmerenii	Nedra, Moskva	1976
7,	V.M. Serdjukov	Fotogrammetrija V promišlennom i graždanskom stroiteljstve	Nedra, Moskva	1977
8,	Grupa autora	Geodezija i aerofotosjemka	Izdanie moskovskogo ordena lenina instituta ..., Moskva	1984
9,	K. Kraus	Photogrammetry: Geometry from Images and Laser Scans	Walter de Gruyter	2007
10,	Miroslav Marčeta	Osnovi fotogrametrije	Visoka građevinsko - geodetska škola, Beograd	2007
11,	Miroslav Marčeta	Fotogrametrija i daljinska detekcija	Visoka građevinsko - geodetska škola, Beograd	2007

Table 5.2 Course specification

Course:		Probability and Mathematical Statistics
Course id:	GI303B	
Number of ECTS:	4	
Teachers:		Grbić P. Tatjana, Gilezan K. Silvia
Course status:		Mandatory

Number of active teaching classes (weekly)

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

Precondition courses

1. Educational goal:

Enabling students in abstract thinking and acquiring basic knowledge in the field of probability and mathematical statistics. The objective is to develop a special form of thinking with students when researching mass phenomena in the field of civil engineering – hydraulics. Course character is applicative; hence the significance is on the knowledge that can explain the quantitative approach to problems in this field of studies. Also, students will be able to use a statistic programme. The objective is to enable students to be able to select adequate statistic methods, to elaborate a statistic analysis and to explain it with understanding. This knowledge is the foundation for better understanding of the professional literature and for successful improvements in their studies.

2. Educational outcomes (acquired knowledge):

Acquired knowledge should be used by students in further education, and in professional courses, to create and solve mathematical models using the knowledge acquired in this course. Mastering theoretical knowledge in the field of probability and mathematical statistics learnt at this course, as well as mastering the skill of calculating and explaining the obtained statistic indicators.

3. Course content/structure:

Theoretical classes: Probability: Probability axioms. Conditional probabilities. Bayes` formula. Random variable of discrete and continual type. Random vector of discrete and continual type and common classification. Conditional divisions. Transformation of random variables. Mathematical expectations. Variance and standard deviation. Moments. Covariance, correlation coefficient. Conditional expectations. Laws on great numbers. Central limit theorems. Correlation and regression, linear regression. Sample distribution, mean value and dispersion. Statistics: basic notions. Population, sample. Statistics. Descriptive statistic analysis (basic notions, data arrangement, table and graphic data presentation, data analysis using descriptive statistic methods, programme support for statistic analysis). Evaluation of unknown parameters (Dot evaluation: momentum method and maximal credibility method. Interval evaluation). Parameter and non-parameter hypotheses and tests. Practical classes (practice): At practice, adequate examples from theoretical classes are presented in order to practice the course content and hence contribute to better understanding.

4. Teaching methods:

Lectures. Numerical /computing and computer practice. Consultations. Lectures are held in a combined manner. At lectures, theoretical part of the course content is presented, and supplemented by characteristic examples for easier understanding. At practice that follow the lectures, characteristic exercises are solved and the course content is explained in more detail. At computer practice, the obtained data processing is performed using a statistic programme. Apart from lectures and practice, consultations are held regularly. A part of the course content that makes a logical unit can be taken during the teaching process in the form of two modules (First module: Probability, second module: Statistics).

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance	Yes	3.00	Written part of the exam - tasks and theory	Yes	70.00
Homework	Yes	5.00			
Lecture attendance	Yes	2.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	M. Stojaković	Matematička statistika	FTN (Edicija tehničke nauke – udžbenici) ,Novi Sad	2000
2,	M. Novković, B.Rodić, I.Kovačević	Zbirka rešenih zadataka iz verovatnoće i statistike	FTN (Edicija tehničke nauke-udžbenici), Novi Sad	2004
3,	V.Jevremović, J.Mališić	Statističke metode u metorologiji i inženjerstvu	Savezni hidrometorološki zavod, Beograd	2002
4,	I.Kovačević, M. Novković	Verovatnoća i matematička statistika, - skripta	FTN, Novi Sad	1999
5,	Silvia Gilezan, Zorana Lužanin, Tatjana Grbić, Biljana Mihailović, Ljubo Nedović, Zoran Ovcin, Jelena Ivetić, Ksenija Doroslovački	Zbirka rešenih zadataka iz verovatnoće i statistike	CMS, FTN, Novi Sad	2009

Literature

Ord.	Author	Title	Publisher	Year
6,	T. Grbić, Lj. Nedović	Zbirka rešenih ispitnih zadataka iz verovatnoće, statistike i slučajnih procesa	CMS, FTN, Novi Sad	2001

Table 5.2 Course specification

Course:	Engineering Geodesy
Course id: GI307A	
Number of ECTS: 6	
Teachers:	Bulatović S. Vladimir, Ninkov Đ. Toša, Đapo R. Almin
Course status:	Mandatory

Number of active teaching classes (weekly)

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

Precondition courses: None

1. Educational goal:

To acquire basic and applied knowledge in the field of geodesy, geomatics and geoinformatics. To acquire basic and applied knowledge in the field of engineering geodesy.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in professional courses, as well as in the recognition and in solving the engineering problems.

3. Course content/structure:

Lecture content:
- Application of geodesy in diverse technical fields (civil engineering, urban planning, architecture, mechanical engineering, power engineering, mining, etc.)
- Types and classification of engineering facilities (roads, tunnels, railways, bridges, dams, linear facilities, buildings, etc.)
- Legislation and technical conditions
- Geodetic works during the building of engineering facilities
- Geodetic networks in engineering
- Geodetic data for designing engineering facilities
- Geodetic mapping of the designed facility geometry
- Control of facility geometry during construction
- Recording the completed facility
- Control of facility geometry during exploitation
- Construction tolerance and accuracy of geodetic works
- Designing geodetic works in engineering
- Project brief
- Project on geodetic works in engineering
- Realization of the project on geodetic works
- Elaborate on the realization of the project on geodetic works
- Bill of quantities, priced bill of quantities, pricing and normative for geodetic works in engineering
- Contemporary measuring devices for performing geodetic works in engineering
- Recording special engineering facilities

Practice content:
Practical application of presented concepts from lectures.

4. Teaching methods:

Prerequisites: 30% of points should be provided through the obligatory tasks, during the teaching process. Examination: Knowledge evaluation: guided and individual elaboration of obligatory tasks; The written examination - tasks, final examination – oral form.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	30.00	Coloquium exam	No	20.00
			Coloquium exam	No	20.00
			Oral part of the exam	Yes	30.00
			Practical part of the exam - tasks	Yes	40.00

Literature

Ord.	Author	Title	Publisher	Year
1,	Janković, M	Inženjerska geodezija 1	Tehnička knjiga, Zagreb	1982
2,	Begović Aleksandar	Inženjerska geodezija 1	Građevinski fakultet Beograd, Naučna knjiga	1990
3,	Uren, J., Price, W. F	Surveying for Engineers	MacMillan Press Ltd, London	1992
4,	Mitar Čvorović	Geodezija u građevinarstvu	Univerzitet Crne Gore, Unireks Nikšić	1993
5,	G. Milev, H. Duhovnikov	Geodezia v stroitelstvoto	Tehnika, Sofia	1987
6,	D. Stoičev, G. Milev	Geodezičeski raboti v stroitelstvoto	Tehnika, Sofia	1983

Literature

Ord.	Author	Title	Publisher	Year
7,	T.A. Larina, E.A. Task, A.K. Zaicev	Inženernie rešenia geodezičeskih zadač dla stroitelstva	Stroiizdat	1982
8,	B.S. Heifec, B.B. Danilevič	Praktikum po inženernoi geodezii	Nedra, Moskva	1979
9,	Aleksandar Begović	Primenjena Geodezija	Građevinski fakultet Beograd	1979
10,	S. Ašanin	Inženjerska geodezija	Ageo	2006

Table 5.2 Course specification

Course:		System Modelling and Simulation 1
Course id:	H213	
Number of ECTS:	4	
Teachers:		Čapko Lj. Darko, Erdeljan M. Aleksandar
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:

Mastering theoretical and practical bases in system modelling and simulation.

2. Educational outcomes (acquired knowledge):

Acquired knowledge can be used in solving specific engineering problems, and it also represents a basis for taking other professional courses

3. Course content/structure:

Place and role of modelling and simulation, application in practice. Theory on modelling and simulation. Mathematical models of time continual systems. Examples of model formation: mechanical, thermal, hydro-dynamical, electrical and electro-mechanical systems. Analogies of sizes and parameters. Electro-mechanical analogies. Model linearization. Simulation on analogue/hybrid computer. Simulation languages. Simulation on a digital computer (MATLAB).

4. Teaching methods:

Lectures, numerical-computing practice, computer practice, laboratory practice, consultations. Examination grade is based on the success on partial examination, homework, 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,	C.M.Close, D.K.Frederick, J.C.Newell	Modeling and Analysis of Dynamic Systems	John Wiley & Sons, Inc.	2002
2,	Latinka Ćalasan, Menka Petkovska	MATLAB i dodatni moduli Control 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

Table 5.2 Course specification

Course:		Digital Terrain Models
Course id:	GI404A	
Number of ECTS:	6	
Teachers:		Borisov A. Mirko, Ristić V. Aleksandar
Course status:		Mandatory

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

Precondition courses: None

1. Educational goal:

To acquire basic and applied knowledge in the field of geodesy, geomatics and geoinformatics. To acquire basic and applied knowledge in the field of digital terrain modelling, and digital terrain models.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in professional courses, as well as in the recognition and in solving the engineering problems.

3. Course content/structure:

Lecture content: Digital terrain models: purpose and applications. Terrain presentation – basic concepts. Terrain presentations in 2D and 3D space. Digital terrain model – basic concepts. Classification of digital terrain models – DTM, DSM, DEM. Data acquisition for digital terrain model: classical surveying, photogrammetry, SAR interferometry, LIDAR, GNSS. Surface and terrain modelling. Standard patterns for model presentation. Terrain modelling. Triangle grids. Square and rectangle grids. Automations in TIN and GRID generating. Interpolation techniques. Quality control and accuracy assessment. Controlling digital terrain model in diverse proportions. Presentation using contour lines. Automations in generating contour lines. Visualisation of digital terrain models. Applications of digital terrain models in geodesy. GIS applications of digital terrain models. Practice content: Practical application of presented concepts from lectures.

4. Teaching methods:

Prerequisites: up to 50% of points should be provided through the partial examination and obligatory tasks, during the teaching process. Examination: Knowledge evaluation: guided and individual elaboration of obligatory tasks; partial examination – written form, final examination – oral form.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Computer excersise defence	Yes	40.00	Coloquium exam	No	20.00
Homework	Yes	5.00	Theoretical part of the exam	Yes	50.00
Lecture attendance	Yes	5.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Zhilin Li, Qing Zhu	Digital Terrain Modelling: principles and methodology		2005
2,	grupa autora	Geodezija i aerofotosjemka	Izdanie moskovskogo ordena lenina instituta..., Moskva	1984
3,	Borisov, M.	Model i organizacija geoprostornih podataka za razmeru 1:50000, Disertacija	Građevinski fakultet, Beograd	2004
4,	Burrough P.A., McDonnel, R.A.	Principi geografskih informacionih sistema	Građevinski fakultet, Beograd	2006

Table 5.2 Course specification

Course:		Geoinformation Systems
Course id:	AU54	
Number of ECTS:	4	
Teachers:		Govedarica J. Miro, Mihajlović R. Dragan
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 will gain fundamental and applied knowledge in the field of geomatics, geoinformatics and geoinformation systems. Introduction to the current GIS tools and areas of GIS application.

2. Educational outcomes (acquired knowledge):

The acquired knowledge is used in engineering courses and in solving engineering problems using GIS technology.

3. Course content/structure:

Lectures: Place and role of geographic information systems (GIS). Introduction to GIS. Basic notions and terminology. Infrastructure of the data on space. Spatial referential frameworks. Modelling spatial objects, GIS data model, raster and vector models, geometry, space topology and topography. Decomposition of space elements. Architecture of GIS system. Spatial Databases. Interpretation and presentation on spatial data. Introduction to geospatial data visualisation. Geospatial analyses. GIS tools. Standardization in the field of geographic information systems and technologies – OpenGis, ISO TC211. Service oriented architecture of GIS - three tier architecture. Application of standards in the realization of GIS systems. Applications of GIS systems in diverse fields. Practice content: GIS tools introduction, GIS-based tools for geospatial data visualization and spatial analysis. Introduction to standards.

4. Teaching methods:

Forms of teaching: lectures, computer practice, consultations, individual work on obligatory tasks. Knowledge evaluation: Guided and independent work on obligatory tasks; written tests; final examination is oral.

Knowledge evaluation (maximum 100 points)

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

Literature

Ord.	Author	Title	Publisher	Year
1,	C. Jones	Geographical Information Systems and Computer Cartography	Pearson Education Inc.	1997
2,	S. Shekhar, S. Chawla	Spatial Databases: A Tour	Pearson Education Inc.	2003
3,	Peter A. Burrough, Rachael A. McDonnell	Principi geografskih informacionih sistema	Građevinski fakultet Beograd	2006
4,	Keith R. McCloy	Resource Managament Information Systems Remote Sensing, GIS and Modelling	Taylor & Francis	2006

Table 5.2 Course specification

Course:		Numerical Algorithms and Numerical Software
Course id:	E231	
Number of ECTS:	4	
Teacher:		Konjović D. Zora
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 basic knowledge about numerical analysis, methodology of applying numerical models in engineering disciplines, use of selected standard numerical software tools.

2. Educational outcomes (acquired knowledge):

Understanding basic numerical models and ability to apply them for solving simple engineering tasks using numerical software tools.

3. Course content/structure:

Introduction. Mathematical models and numerical models; methodology of solving engineering problems by applying numerical models; fields of application of numerical models in engineering. Basic numerical methods: numerical solutions of a system of linear algebra equations (direct and iterative procedures); numerical solutions of non-linear equations and systems; function approximation (interpolation and best approximation); differentiation and integration (maximum precision formula, maximum possible precision formula); common differential equations – initial condition (single-step and multi-step formulas, predictor-corrector procedures), boundary condition (shooting method, collocation formulas); function transformation (Fourier transform, wavelet transform); Numerical software tools: demands and functions, architecture, ways of use, available tools. Selected numerical software tools: architecture and ways of use, accompanying programming languages and programming.

4. Teaching methods:

Teaching methods include: Lectures, computer practice, homework assignments, and consultations. During the lectures the content of the course is presented using the necessary didactic tools while student active participation is encouraged. The practical aspect of the course is covered at computer practice classes through assignments which students do independently or with the help of teaching assistants as well as through homework assignments (obligatory or optional). A student is expected to demonstrate the ability of independent task solving or understanding of the solution.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Computer exercise attendance	Yes	5.00	Written part of the exam - tasks and theory	Yes	30.00
Homework	Yes	5.00			
Homework	Yes	5.00			
Homework	Yes	5.00			
Homework	Yes	5.00			
Laboratory exercise defence	Yes	40.00			
Lecture attendance	Yes	5.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Michael Heath	SCIENTIFIC COMPUTING An Introductory Survey	McGraw-Hill	1997
2,	Zora Konjović	Numerički algoritmi i numerički softver	autorski rukopis	2005
3,	Đorđe Obradović, Zora Konjović	Numerički algoritmi i numerički softver - računarski praktikum	autorski	2004
4,	Amos Gilat	Uvod u MATLAB 7	Wiley	2005

Table 5.2 Course specification

Course:		Spatial and Urban Planning
Course id:	GI305A	
Number of ECTS:	6	
Teacher:		Kostreš Lj. Milica
Course status:		Elective

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

Precondition courses: None

1. Educational goal:

Within the course students will be presented with the basics of spatial and urban planning. Special attention will be devoted to the functional processes in the regional and urban context, as well as the mechanisms of sustainable development. The dominant issues of spatial development will be discussed with the primary goal of training students to understand the complex regional and urban processes within the overall physical and social context.

2. Educational outcomes (acquired knowledge):

Students will be trained to understand the current problems of spatial and urban planning, as well as to analyze different concepts of development. This will enable the student to synthesize new knowledge through practical activities and interactive discussions. Students will be able to use the acquired knowledge in further education, linking it to the adopted elements from other disciplines that are studied in the framework of the study program.

3. Course content/structure:

Basic assumptions of spatial and urban planning; Spatial levels and human settlements (traditional and new typology); Brief review of the historical development of the settlements; Transformation of the contemporary cities - a broader context and specific topics; Basic elements of urban morphology; Specific city-functions; City center and the periphery; Rural and suburban areas; Sustainable regional and urban development.

4. Teaching methods:

The method of critical analysis; illustrative-demonstrative methods, methods of synthesis of acquired knowledge; Interaction between participants in the learning process

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Complex exercises	Yes	60.00	Oral part of the exam	Yes	30.00
Computer exercise attendance	Yes	5.00			
Lecture attendance	Yes	5.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Mamford, L.,	Grad u istoriji	Marso:Book, Beograd	2003
2,	Reba, D.	Ulica – element strukture i identiteta	Orion art	2010
3,	Petrović, G., Polić D.	Priručnik za urbani dizajn	Orion art	2008
4,	Radović, R	Forma grada	Orion art, Beograd	2003
5,	Hall, P.	Urban and Regional Planning	Routledge	2002
6,	Birch, E.L. (ed.)	The Urban and Regional Planning Reader	Routledge, London, New York	2009

Table 5.2 Course specification

Course:	Sustainable Use of Natural Resources and Environmental Protection System
Course id: Z205	
Number of ECTS: 6	
Teachers:	Mihajlov N. Anđelka, Ubavin M. Dejan
Course status:	Elective

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

Precondition courses: None

1. Educational goal:

The course objective is to introduce students to the concept of sustainable development, environmental protection system, legislation in the field of environment and global issues of environment. Master the course should enable students to understand complex relationships between stockholders of the sustainable development, as well as to point out the necessity of multidisciplinary approach to the problem.

2. Educational outcomes (acquired knowledge):

Students should use acquired knowledge in further education, in professional courses above all. Mastering this course is the starting point in the courses which have the objective to solve existing problems in the field of environmental protection.

3. Course content/structure:

Theoretical lectures: Natural resources, Inexhaustible – exhaustible resources, EU thematic strategy as a frame for sustainable use of natural resources, Natural resources and national strategy of Serbia for the accession to the EU, Elements of the environment being regulated, Concepts of integral environmental protection and control; Rio conference and Agenda 21, Conference in Johannesburg, Environmental protection convention, International organizations, EU laws in the field of environmental protection, EU thematic strategies and strategy for accession of Serbia to the EU, National legislation in the field of environmental protection. Global atmospheric changes, Potential of global warming, Prediction of moderate global temperatures, Regional impact of temperature change, CDM change, Systematic connection of sustainable use of natural resources and the living environment, System of national accounts and increase in national income as a sustainable development indicator, Economic indicators, Practical lectures: During lectures, adequate examples related to the knowledge from the lectures are elaborated with active participation of students.

4. Teaching methods:

Lectures, Auditory Practice and Consultations. Lectures: Theoretical part of the course is presented with examples which have the objective to master the knowledge more easily. During auditory practice, the knowledge from the lectures in studied in more detail with active participation of students. Besides lectures and auditory practice, consultations are held on the regular basis. The course is divided in two wholes followed by two colloquiums. The first whole is: The concept of sustainable development, Environmental protection system and legislation in the field of living environment. The second whole is: Global issues of the living environment.

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			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Mihajlov, A., Vujić, G., Ubavin, D.	Održivo korišćenje prirodnih resursa	Skripta, interno izdanje FTN	2007
2,	López, Ramón, and Michael A. Toman.	Economic Development and Environmental Sustainability - New Policy Options	Oxford: Oxford University Press	2006
3,	Daniel B. Botkin, Edward A. Keller	Environmental Science	John Wiley &sons, inc	2003
4,	Anđelka N. Mihajlov	Održivi razvoj i životna sredina ka Evropi u 95 koraka	Privredna komora Srbije i "Ambasadori životne sredine"	2005

Table 5.2 Course specification

Course:		Optimization Methods
Course id:	E237A	
Number of ECTS:	6	
Teachers:		Jeličić D. Zoran, Rapaić R. Milan
Course status:		Mandatory

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

Precondition courses: None

1. Educational goal:

Mastering the theoretical and practical fundamentals of nonlinear optimization in static and dynamic systems.

2. Educational outcomes (acquired knowledge):

Acquired knowledge can be used in solving the specific engineering problems, and it also represents the basis for taking other professional courses.

3. Course content/structure:

Formulation of the optimization problem. Theoretical bases for static optimization. Analytical determination of extremes, functions with one or more variables without limitations. Analytical determination of extremes, functions with one or more variables with limitations, equality and inequality types. Linear programming. Numerical solving of one-dimensional problems. Numerical solving of multi-dimensional problems with and without limitations. Bases of variation calculation. Direct methods of variation calculations. Optimal control, Pontryagin`s maximum principle, dynamic programming, linear regulators. Numerical methods for dynamic optimization. Contemporary optimization procedures: genetic algorithm, simulation of hardening. Application of optimization methods in feeding artificial neural networks and in systems with dissolved logic. Examples of optimizations of concrete engineering problems.

4. Teaching methods:

Lectures; numerical – computing practice, computer practice; laboratory practice, consultations.
The examination is written and oral. Written part of the examination consists of at least 4 tasks. Condition for passing the examination is that each of the tasks has to be done with at least 50% of success.

Knowledge evaluation (maximum 100 points)

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

Literature

Ord.	Author	Title	Publisher	Year
1,	J. Petrić, S. Zlobec	Nelinearno programiranje	Naučna knjiga, Beograd	1983
2,	B. Vujanović, D. Spasić	Metodi optimizacije	Univerzitet u Novom Sadu	1998
3,	Dimitri P. Bertsekas	Nonlinear Programming	Athena Scientific	2004

Table 5.2 Course specification

Course:	Land Consolidation
Course id: GI011A	
Number of ECTS: 5	
Teacher:	Trifković N. Milan
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:

To acquire basic and applied knowledge in the field of geodesy, geomatics and geoinformatics. To acquire basic and applied knowledge in the field of commassation and land territory arrangement.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in professional courses, as well as in the recognition and in solving the engineering problems.

3. Course content/structure:

Lecture content:
Historical survey on the commassation with a special emphasis on the role and development of commassation works in the country. Law on commassation and urban reparcelling. Phases in commassation works. Beginning the procedure. Preparation works, regulation of land register and cadastre situation, and determination of the existing situation (technical reambulation). Land presentations. Commassation land evaluation, determination of relative property value. Preparations for commassation project, geodetic and technical preparation works, brief statements for new road and canal networks, brief for new tables, design patterns. Surveying details for elaborating the project on commassation foundations. Project on commassation foundations, construction projects. Regulation of commassation area boundaries and regulations of landmarks in a settlement – arrangement of the settlement using the spatial plan. Transfer and staking of the commassation project into the terrain. Allocation of new properties, providing commassation tables with diverse forms, allocation discussions. Finishing works, staking of new properties, registration for the property, evidence on commassation. Solving complaints related to: project, registration, land evaluation, allocation of new properties.

Practice content:
Practical application of the concepts from lectures.

4. Teaching methods:

Prerequisites: obligatory tasks during the teaching process. Examination -Knowledge evaluation. Partial examination – written form, final examination – oral form.

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	Oral part of the exam	Yes	50.00
Homework	Yes	5.00	Practical part of the exam - tasks	Yes	20.00
Homework	Yes	5.00			
Homework	Yes	5.00			
Lecture attendance	Yes	5.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Milan Trifković	Uređenje seoskih područja komasacijom	Viša građevinsko-geodetska škola, Beograd	2001
2,	Christopher Jones	Geographical Information Systems and Computer Cartography	Longman	1997
3,	Njegoslav Vukotić, Milan Trifković	Deoba parcela i tabli u katastru i komasaciji	Viša građevinsko-geodetska škola, Beograd	2004
4,	Grupa autora	Savetovanje „Komasacija i uređenje zemljišta“	Savez geodatskih inženjera i geometara Jugoslavije, Beograd	1983

Table 5.2 Course specification

Course:	Engineering Geodesy 2
Course id: GI402	
Number of ECTS: 6	
Teacher:	Ninkov Đ. Toša
Course status:	Mandatory

Number of active teaching classes (weekly)

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

Precondition courses: None

1. Educational goal:

To acquire basic and applied knowledge in the field of geodesy, geomatics and geoinformatics. To acquire basic and applied knowledge in the field of engineering geodesy.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in professional courses, as well as in the recognition and in solving the engineering problems.

3. Course content/structure:

Lecture content: - Tasks of engineering geodesy during the design process, building and exploitation of engineering structures - Elements of staking - Methods for staking - Basic notions on structure deviations and deformations Practice content: Practical application of presented concepts from lectures. Control geometry designed objects - Hypothesis testing - Previous estimates of accuracy and reliability of geodetic networks

4. Teaching methods:

Lectures. Exercises. Prerequisites: 50% of points should be provided through tests and obligatory tasks, during the teaching process. Examination: Knowledge evaluation: guided and individual elaboration of obligatory tasks; final examination – The written examination - theory and tasks 50%.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance	Yes	5.00	Written part of the exam - tasks and theory	Yes	50.00
Lecture attendance	Yes	5.00			
Project	Yes	30.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Begović Aleksandar	Inženjerska geodezija 2	Građevinski faklutet Beograd, Naučna knjiga Beograd	1990
2,	Janković M.	Inženjerska geodezija 2 i 3		1981
3,	Mitar Čvorović	Geodezija u građevinarstvu	Univerzitet Crne Gore, Unireks Nikšić	1993
4,	G. Milev, H. Duhovnikov	Geodezia v stroitelstvoto	Tehnika, Sofia	1987
5,	T.A. Larina, E.A. Task, A.K. Zaicev	Inženernie rešenia geodezičeskih zadač dla stroitelstva	Stroiizdat	1982
6,	B.S. Heifec, B.B. Danilevič	Praktikum po inženernoi geodezii	Nedra, Moskva	1970
7,	N. N. Lebedev, V.E. Novak, G.P. Levč	Prikladnaja geodezija	Nedra, Moskva	1983
8,	Aleksandar Begović	Primenjena Geodezija	Građevinski fakultet Beograd	1979

Table 5.2 Course specification

Course:		Distributed Systems in Geomatics
Course id:	GI303A	
Number of ECTS:	4	
Teachers:		Erdeljan M. Aleksandar, Vukmirović M. Srđan
Course status:		Mandatory

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

Precondition courses: None

1. Educational goal:

Mastering the theoretical and practical fundamentals of distributed systems.

2. Educational outcomes (acquired knowledge):

Acquired knowledge can be used in solving the specific engineering problems, and it also represents the basis for taking other professional courses.

3. Course content/structure:

Lecture content:
- Distributed systems
- Distribution of functions, resources and control
- Concept of distributed databases
- Distributed systems for database control
- Fundamentals in designing database distribution

Practice content:
Practical application of presented concepts from lectures.

4. Teaching methods:

Examination is written and oral. Written part is eliminatory.
Examination grade is based on the success on homework, laboratory and computer practice, written and oral part of the examination.

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
Homework	Yes	5.00	Oral part of the exam	Yes	30.00
Homework	Yes	5.00	Practical part of the exam - tasks	Yes	40.00
Homework	Yes	5.00			
Lecture attendance	Yes	5.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Andrew Tanenbaum, Maartin Van Steen	Distributed systems - Principles and Paradigms	Prantice Hall	2002
2,	Peter A. Burrough, Rachael A. McDonnell	Principi geografskih informacionih sistema	Građevinski fakultet Beograd	2006

Table 5.2 Course specification

Course:	Cadastre
Course id: GI309	
Number of ECTS: 5	
Teacher:	Trifković N. Milan
Course status:	Mandatory

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

Precondition courses: None

1. Educational goal:

To acquire basic and applied knowledge in the field of geodesy, geomatics and geoinformatics. To acquire basic and applied knowledge in the field of cadastre.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in professional courses, as well as in the recognition and in solving the engineering problems.

3. Course content/structure:

Cadastre systems. Deed system. Torrens system. European parcel system. Registration of Deeds. Land registry. Notions of Land registry and register rights. Land registry body. Land registry form. Subform. Book on presented contracts. Register input. Land register acts. Other registries (cadastres). Evidence (cadastre) on immovable property. Cadastre on real estates. Cadastre 2014. Utility cadastre. Managing the cadastre and responsibility. Technical methods. Definition, boundaries and presentation of boundary marks. Role of a surveyor. Organizational aspects of a cadastre.

4. Teaching methods:

Prerequisites: obligatory tasks during the teaching process. Examination: Knowledge evaluation: guided and individual elaboration of obligatory tasks; partial examination – written form, final examination – oral form.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance	Yes	5.00	Coloquium exam	No	20.00
Lecture attendance	Yes	5.00	Oral part of the exam	Yes	50.00
Project	Yes	40.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Vladimir Lukić	Katastar nekretnina	Šumarski fakultet Banja Luka	1995
2,	Miladinović Manojlo	Katastar nepokretnosti	Geokarta DOO Beograd	2004
3,	Njegoslav Vukotić, Jovana Zrnić	Katastar vodova	Viša građevinsko geodetska škola	2001
4,	Jevrosima Begović, Dragoljub Smiljković	Katastar zemljišta i podzemnih vodova	Naučna knjiga, Beograd	1990
5,	Njegoslav Vukotić, Milan Trifković	Deoba parcela i tabli u katastru i komasaciji	Viša građevinsko-geodetska škola, Beograd	2004
6,	Marko Gostović	Ka novom katastru	Građevinski fakultet u Beogradu	1995

Table 5.2 Course specification

Course:		Fundamentals of Operations management
Course id:	IM1039	
Number of ECTS:	5	
Teachers:		Ćosić P. Ilija, Simeunović V. Nenad, Leber J. Marjan
Course status:		Elective

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

Precondition courses: None

1. Educational goal:

Introduce to students to basic skills of planning, designing, implementation and managing operations within production systems and service delivery systems, is the main objective of this subject. Processes of procurement, storage, processing, assembly, sales and delivery comprise of a number of operations whose proper management can achieve the wanted business effect. The course also studies the efficient capacity development of the owners of these processes who as a result provide final products or services in compliance with the users` demands. The course is directed towards acquiring the knowledge that enables qualitative decision-making on the production programme alternations, technological development and introduction of new technologies, ecology and sustainable development.

2. Educational outcomes (acquired knowledge):

Students will be able to plan, design, implement and maintain processes based on operations with the aim of producing material and non-material products and services. With successfully mastering the course content, students will be able to adequately communicate with employees as process owners. Students will be trained to determine the spatial schedule of the technological system in a plant, to influence the production line balance, and to properly use the effects of introducing quality management system. The educational outcome also comprises skills in using financial indicators in business, as well as the application of contemporary concepts in production (CIM, Lean, Efficient system).

3. Course content/structure:

Introduction to Operations Management. Operations Strategy and Competitiveness. Functions of Enterprice. Product and Service Design. Process Design. Process analysis and improvement. Tools and Techniques of Operations Management. Production and Service systems. Location of a production system. Work study. Queuing management. System capacity. Managing the Supply. Project management. Contemporary technologies in business (e-business, mass customization).

4. Teaching methods:

Lectures are auditory, with theoretical processing of necessary number of case studies. Practice include students` auditory introduction to the studied problems, interactive processing of case studies and computing examples, all in order to practically master the design tools, operations management, and teamwork on project task preparation. Students divided in smaller groups prepare a concrete project task in order to apply the acquired knowledge in designing a real production system and service delivery system. Laboratory practice include training on specially equipped working places, mutually related to a production line, in a laboratory prepared for this purpose and supervised by the laboratory assistant. There is a public defence of project tasks. During the course, there are also visits to diverse companies.

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,	D. Zelenović	Projektovanje proizvodnih sistema	FTN	2005
2,	Dž.Hejzer, B. Render	Operacioni menadžment	Ekonomski fakultet - Beograd	2011
3,	R.B. Chase; et al	Operations management for competitive advantage	Tata McGraw-Hill, ©2006.	2006

Table 5.2 Course specification

Course:		Production Systems
Course id:	M316	
Number of ECTS:	5	
Teachers:		Buchmeister S. Borut, Ćosić P. Ilija, Lazarević M. Milovan
Course status:		Elective

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

Precondition courses: None

1. Educational goal:

The aim of the course is to enable students for developing and designing product systems, defining their characteristics, and designing production processes that take place within them. Students master tools for designing the system structure and the working process and acquire foundations for designing energy systems. During classes, students acquire knowledge necessary for determining the spatial distribution of system elements as a manner of selecting micro and macro locations.

2. Educational outcomes (acquired knowledge):

Student will be prepared to develop and design a production system, to recognize and understand the importance of production and product as an essential objective of the production system, as well as to learn basic determinations related to the energy support to the system functioning. During lectures, practice and practical work, students obtain knowledge on a company as an integrated unity of production and other system functions, i.e. the flows of materials, energy and information.

3. Course content/structure:

Theoretical lectures: Basic elements of a production system. Development conditions of production systems. Product and production programme. Working process and system capacity. Forming material flows. Individual approach in flow formation. Group approach in flow formation. General model of material flows. Balancing flows in a system. Forming flows in service systems. Forming the production system structure. Process approach in structure formation. Object approach in structure formation. Basic foundations for structure formation. Determining the system elements. Modelling the spatial system structures. Modelling the energy flows. Determining energy demands. Designing energy structures. Location of production systems. Determining the system location in narrow and wider sense. Outsourcing functions or processes to another location or in another production system. Conditions for outsourcing, dividing responsibility and competences, managing the working processes. Organizational readiness for accepting contemporary technological solutions. Simulation of production systems.
Practical classes: Discussions with practical examples of production systems from developed countries and the region countries. Analysis on system structures. Elaboration of a seminar paper in a real system. Interactive work and acquiring knowledge in laboratory conditions.

4. Teaching methods:

Oral presentations with slides from a video projection. Usage of tables and handouts for practice, work in a laboratory and visits to real contemporary business systems

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			
Project	Yes	50.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Zelenović, D.	PROJEKTOVANjE PROIZVODNIH SISTEMA	Naučna knjiga	2009
2,	Zelenović, D., Ćosić, I., Maksimović, R.	PROJEKTOVANjE PROIZVODNIH SISTEMA-priručnik za vežbe	FTN Novi Sad	2003
3,	Zelenović, D., Ćosić, I., Maksimović, R., Maksimović, A.	Priručnik za projektovanje proizvodnih sistema - pojedinačni prilaz	FTN Novi Sad	2003

Table 5.2 Course specification

Course:		Underground Infrastructure Detection			
Course id:	GI409A				
Number of ECTS:	6				
Teacher:	Ristić V. Aleksandar				
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:

To acquire basic and applied knowledge in the field of geodesy, geomatics and geoinformatics. To acquire basic and applied knowledge in the field of underground infrastructure detection.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in professional courses, as well as in the recognition and in solving the engineering problems.

3. Course content/structure:

Introduction, history. Information on the underground infrastructure in cadastre. Specificities in detecting different types of installations. Basic categorization of methods for detecting underground installations. Underground infrastructure detection by applying inductive methods. Underground infrastructure detection by applying specific methods. Pipeline leaking detection. Groundwater level detection. Underground infrastructure detection by applying georadar. Estimation of underground structure parameters detected by georadar. Integration of GNSS and GPR data. Standard methodology for measuring visualisation on a project. Forming GIS application with information on underground installations.

4. Teaching methods:

Teaching forms: lectures, computer practice, consultations, individual elaboration of obligatory tasks. Knowledge evaluation: guided and individual elaboration of obligatory tasks, 50%, final examination – oral form, 50%.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Complex exercises	Yes	40.00	Oral part of the exam	Yes	50.00
Exercise attendance	Yes	5.00			
Lecture attendance	Yes	5.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	D. Daniels	Ground Penetrating Radar - Second edition	IEE, London GBR	2004
2,	B. Allred, J. Daniels, M. Eshani	Handbook of Agricultural Geophysics	CRC Press, Boca Raton, USA	2008
3,	The survey association	The essential guide to utility surveys, ISSUE 3	Newark, UK	2011
4,	Radiodetection Ltd	ABC&XYZ of locating buried pipes and cables – for beginner and the specialist	Bristol, UK	2008
5,	B. Meehan	Empowering Electric and Gas Utilities with GIS (Case Studies in GIS)	ESRI press, Redlands, California, USA	2007
6,	U. M. Shamsi	GIS Applications for Water, Wastewater, and Stormwater Systems	CRC Press, Boca Raton, USA	2005
7,	Njegoslav Vukotić, Jovana Zrnić	Katastar vodova	Viša građevinsko geodetska škola, Beograd	2006

Table 5.2 Course specification

Course:		Fundamentals of Remote Sensing and Image Processing
Course id:	GI406A	
Number of ECTS:	6	
Teachers:		Govedarica J. Miro, Borisov A. Mirko, Benka P. Pavel
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:

To acquire basic and applied knowledge in the field of geodesy, geomatics and geoinformatics. To acquire basic and applied knowledge in the field of remote sensing and computer image processing.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in professional courses, as well as in the recognition and in solving the engineering problems.

3. Course content/structure:

Introduction to remote sensing. Technological bases. Sensor platforms. Interpretation of sensor records. Image pre-processing. Image transformations. Filtering. Interpretation methods in remote researching. Subjective interpretation, properties and limitations. Interactive interpretation with partially automated functions. Image modification. Highlighting, ranking and reducing the amount of marks. Classification. Segmentation. Algorithms for classification and segmentation. Automated classification. Supervised classification. Registration and geocoding. Image merging. Standard patterns and algorithms. Quality control and accuracy assessment. Programme tools for remote detection.

4. Teaching methods:

Teaching forms: lectures, computer practice, consultations, individual elaboration of obligatory tasks. Knowledge evaluation: guided and individual elaboration of 2 obligatory tasks and 4 tests and final examination – oral form.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Computer excersise defence	Yes	15.00	Oral part of the exam	Yes	30.00
Computer excersise defence	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,	P. Mather	Computer Processing of Remotly-Sensed Images: An Introduction	John Wiley&Sons, Ltd	2004
2,	Keith R. McCloy	Resource Management Information System:Remote Sensing, GIS and Modelling	Taylor&Francis	2006
3,	M. Dražić	Fotogrametrija 2	Građevinska knjiga, Beograd	1965
4,	Dušan Joksić	Fotogrametrija I	Naučna knjiga, Beograd	1983
5,	V.M. Serdjukov	Fotogrammetrija V promišlennom i graždanskom stroiteljstve	Nedra, Moskva	1977
6,	grupa autora	Geodezija i aerofotosjemka	Izdanie moskovskogo ordena lenina instituta..., Moskva	1984
7,	John R. Jensen	Introductory Digital Image Processing - A Remote Sensing Perspective	Pearson Prentice Hall	2005

Table 5.2 Course specification

Course:		Professional Practice - Project
Course id:	GISP	
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:

Acquiring direct knowledge on the functioning and organization of companies and institutions dealing with jobs within the profession for which students are being educated, as well as the possibilities for applying previously acquired knowledge in practice.

2. Educational outcomes (acquired knowledge):

Enabling students to apply previously acquired theoretical and professional knowledge for solving the specific engineering problems within the selected company or institution. Introducing students to the activities of the selected company or institution, their business manners, management, and the importance and role of engineers in their organizational structures.

3. Course content/structure:

It is made individually for each candidate, in agreement with the board of the company or institution in which the professional practice is held, and in accordance with the demands of the profession for which the students is being educated.

4. Teaching methods:

Consultations and writing a professional practice diary in which the student describes the activities and jobs performed during the professional practice.

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

Table 5.2 Course specification

Course:		Geospatial Data Infrastructure
Course id:	GI003	
Number of ECTS:	6	
Teachers:		Govedarica J. Miro, Galić P. Zdravko, Pribičević I. Boško
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:

To acquire basic and applied knowledge in the field of geodesy, geomatics and geoinformatics. Introduction to the principles of the spatial data infrastructure and practical implementation.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in professional courses, as well as in the recognition and in solving the engineering problems using geospatial data infrastructure and implementation systems on geospatial data infrastructure principles.

3. Course content/structure:

Lectures: Geospatial data and data models. Metadata. Distributed data models. Distributed systems and architecture. Technological bases for distributed systems. Spatial Data Infrastructure (SDI). Basic concepts on spatial infrastructure. Terminology. Standardization in the field of SDI. Application of international and local standards in SDI realization. Architecture of SDI system. Organizational aspect of SDI system. Technological aspect of SDI system. Policy in geospatial data usage in SDI systems. Aspects of SDI realization. Portals and geoportals. Architecture of geoportals and implementation in SDI systems. Service architecture in SDI systems. Geospatial data exchange. Geoservices. Practice content: HTML, JavaScript, implementation of client web applications, implementation of three tier architecture, implementation of geoservices, implementation of geoportal, metadata catalogue.

4. Teaching methods:

Teaching forms: lectures, computer practice, consultations, individual elaboration of obligatory tasks. Knowledge evaluation: guided and individual elaboration of 3 obligatory tasks, 4 tests and final examination – oral form.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Computer excersise defence	Yes	10.00	Oral part of the exam	Yes	30.00
Computer excersise defence	Yes	10.00			
Computer excersise defence	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Douglas D. Nebert	Developing Spatial Data Infrastructures: The SDI Cookbook	Technical Working Group, GSDI	2005
2,	Christopher Jones	Geographical Information Systems and Computer Cartography	Longman	1997
3,	Mirza Ponjavić	Osnovi geoinformacija	Univerzitet u Sarajevu, Građevinski fakultet	2011
4,	Galić Z.	Geoprostorne baze podataka	Golden Marketing - Tehnička knjiga	2006

Table 5.2 Course specification

Course:		Active Geodetic Reference Networks
Course id:	GI010A	
Number of ECTS:	5	
Teacher:		Aleksić R. Ivan
Course status:		Elective

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

Precondition courses: None

1. Educational goal:

To acquire basic and applied knowledge in the field of geodesy, geomatics and geoinformatics. To acquire basic knowledge in the field of active geodetic reference networks and permanent station networks.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in professional courses, as well as in the recognition and in solving the engineering problems.

3. Course content/structure:

Classification of geodetic networks, elevation of geodetic networks, permanent GPS station networks, functionality of GPS system, structure of GPS system, principles of positioning, GPS service classes, GPS signals, GPS data, reception of GPS signals, errors in GPS positioning, accuracy assessment for GPS receiver, expansion of GPS system, differential real-time DGPS, subsequent processing of differential measurements, inverted DGPS, monitoring the phases of GPS signal carrier, DGPS signal formats, source data and data after corrections, RTCM data format, RASANT data format, RINEX data format, NMEA data format, network RTK positioning, system architecture for network RTK positioning, error source characterisation, transfer format, cells, network corrections, message sending schedule, short message overview, examples of correction networks working in the emission regime, GNSMART solution of the company Geo, Leica Spider system, SAPOS system, EUPOS (European POSition Determination System) project, VRS systems, active reference geodetic GPS basis, components of active GPS basis, permanent stations, acquisition component, distribution component, user services, service classification, service application in geodetic terrain surveying.

4. Teaching methods:

Teaching forms: lectures, computer practice, consultations, individual elaboration of obligatory tasks. Knowledge evaluation: guided and individual elaboration of 2 obligatory tasks and a seminar paper, final examination – oral form.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Homework	Yes	5.00	Oral part of the exam	Yes	70.00
Homework	Yes	5.00			
Term paper	Yes	20.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	C. Rizos	Introduction to GPS	University of New South Wales	1999
2,	George Taylor, Geoff Blewitt	Inteligent Positioning - GIS - GPS Unification	Wiley	2006
3,	Hofmann Wellenhof, Herbert Lichtenegger, Elmar Wasle	GNSS Global Navigation Satellite Systems	Springer WienNewYork	2008
4,	Krunislav Mihailović, Ivan R. Aleksić	Koncepti mreža u geodetskom premeru	Geokarta, Beograd	2008

Table 5.2 Course specification

Course:		Physical Geodesy
Course id:	GI016	
Number of ECTS:	5	
Teachers:		Ristić V. Aleksandar, Pribičević I. Boško
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:

To acquire basic and applied knowledge in the field of physical geodesy.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in professional courses, as well as in the recognition and in solving the engineering problems.

3. Course content/structure:

Lecture content: Introduction to physical geodesy. Basic potential theories. Field of the force of gravity. Gravimetric methods. Absolute and relative determination of the force of gravity acceleration. Gravimetric referential systems and gravimetric networks. Heights above the sea level. Astrogeodetic methods. Field of gravity not on Earth. Statistic methods in physical geodesy. Modern methods for determining the figure of the Earth. Cosmic methods.

Practice content: Practical application of presented concepts from lectures.

4. Teaching methods:

Prerequisites: class attendance and tests during the teaching process. Examination: prerequisities and practical part of the exam 60%, oral exam 40 %.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance	Yes	5.00	Oral part of the exam	Yes	40.00
Lecture attendance	Yes	5.00	Practical part of the exam - tasks	Yes	30.00
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Weikko A. Heiskanen i Helmut Moritz	Physical Geodesy	Institute of Physical Geodesy, Graz, Austria	1985
2,	Petr Vaníček i Edward J. Krakiwsky	Geodezija: Koncepti (prevod sa engleskog jezika)	Savez geodeta Srbije - Geodetski žurnal	2005
3,	Dragan Marković	Geodetska geofizika	Vojnotehnička akademija Beograd	1998
4,	Weikko A. Heiskanen i Helmut Moritz	Fizička geodezija (prevod sa engleskog jezika)	Građevinski fakultet u Beogradu	2000

Table 5.2 Course specification

Course:		Geospatial Databases
Course id:	GI408A	
Number of ECTS:	6	
Teachers:		Govedarica J. Miro, Luković S. Ivan, Galić P. Zdravko
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:

To acquire basic and applied knowledge in the field of geodesy, geomatics and geoinformatics. To acquire basic and applied knowledge in the field of databases and geospatial databases.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in professional courses, as well as in the recognition and in solving the engineering problems.

3. Course content/structure:

Lecture content: Modelling spatial entities and databases. Raster and vector models, geometry, spatial topology and topography. Systems for database control and spatial expansions. SQL and spatial entities. Query spatial languages. Spatial operators. 9IM matrix. Realization of spatial queries. Optimization and adjustment of performances. Distributed databases with spatial expansion and entities. Practice content: Practical application of presented concepts from lectures.

4. Teaching methods:

Teaching forms: lectures, computer practice, consultations, individual elaboration of obligatory tasks. Knowledge evaluation: 3 defended computer tasks, 4 tests, final examination – oral form.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Computer excersise defence	Yes	10.00	Oral part of the exam	Yes	30.00
Computer excersise defence	Yes	10.00			
Computer excersise defence	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Shekhar S., Chawla S.	Spatial Databases: A Tour	Pearson Education Inc.	2003
2,	Galić Z.	Geoprostorne baze podataka	Golden Marketing - Tehnička knjiga	2006
3,	Worboys M.F., Duckham, M.	GIS: A Computing Perspective	CRC Press	2004
4,	Pavle Mogin, Ivan Luković, Miro Govedarica	Principi projektovanja baza podataka	Fakultet tehničkih nauka, Novi Sad	2004
5,	Peter A. Burrough, Rachael A. McDonnell	Principi geografskih informacionih sistema	Građevinski fakultet Beograd	2006

Table 5.2 Course specification

Course:	Intelligent Control Systems
Course id: GI005	
Number of ECTS: 5	
Teachers:	Čongradac D. Velimir, Jeličić D. Zoran, Rapaić R. Milan
Course status:	Elective

Number of active teaching classes (weekly)

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

Precondition courses: None

1. Educational goal:

Introducing students to automated control systems based on computer intelligence methods.

2. Educational outcomes (acquired knowledge):

Acquired knowledge can be used in solving the specific engineering problems.

3. Course content/structure:

Application of artificial neural networks in identification, diagnostics, prediction and control. Fuzzy systems in system control. “Neuro-fuzzy” systems: combining fuzzy logic and neural networks in controlling. Genetic algorithms in system control. Designing classic and neuro-fuzzy regulators by applying genetic algorithm. Support vector machines and their application in system identification and control.

4. Teaching methods:

Lectures, computing and computer practice, consultations. Examination is written and oral. Written part is eliminatory.
Examination grade is based on the success on computer practice, written and oral part of the examination.

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
Homework	Yes	5.00	Oral part of the exam	Yes	30.00
Homework	Yes	5.00	Practical part of the exam - tasks	Yes	40.00
Homework	Yes	5.00			
Lecture attendance	Yes	5.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Astrom K.J, Wittenmark B.	Computer Controlled Systems-Theory and Design	Prentice Hall	1984
2,	Goodwin G.C., Sin K.S.	Adaptive Filtering Prediction and Control	Prentice Hall	1984
3,	Wasserman P. D	Neural Computing Theory and Practice	New York: Van Nostrand Reinhold	1989
4,	Witold Pedrycs	Fuzzy Control and Fuzzy Systems	Taunton, England: Research Studies Press	1989
5,	Hans J.Zimmermann	Fuzzy Set Theory-and its Applications	Boston: Kluwer Nijhoff Publishing	1988

Table 5.2 Course specification

Course:		Satellite Navigation and Navigation Service
Course id:	GI006	
Number of ECTS:	5	
Teacher:		Jorgovanović Đ. Nikola
Course status:		Elective

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

Precondition courses: None

1. Educational goal:

To acquire knowledge in the field of satellite navigation and navigation service.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in further education.

3. Course content/structure:

Lecture content:
- Notion, history and situation in navigation
- Satellite navigation systems
- Satellite navigation algorithms
- Supplementary navigation devices
- Error models in satellite navigation
- Services for satellite navigation
- Mathematical and physical bases of inertial navigation
- Inertial navigation algorithms
- Error models in inertial navigation
- Hybrid satellite-inertial systems
- Filtration techniques in hybrid systems
- Terrestrial, marine, air and celestial navigation
- Navigation in geodesy and engineering applications

Practice content:
Practical application of presented concepts from lectures.

4. Teaching methods:

Lectures, exercises, consultations.

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
Homework	Yes	5.00	Oral part of the exam	Yes	30.00
Homework	Yes	5.00	Practical part of the exam - tasks	Yes	40.00
Homework	Yes	5.00			
Lecture attendance	Yes	5.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Marinko Oluić	Snimanje i istraživanje zemlje iz Svemira	Tiskara MEIĆ, Zagreb	2001
2,	Christopher Jones	Geographical Information Systems and Computer Cartography	Longman	1997

Table 5.2 Course specification

Course:	Digital Signal Processing in Geomatics
Course id: GI007	
Number of ECTS: 5	
Teacher:	Bojanić M. Dubravka
Course status:	Elective

Number of active teaching classes (weekly)

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

Precondition courses: None

1. Educational goal:

Mastering the theoretical and practical fundamentals in digital signal processing in the field of geographic information systems.

2. Educational outcomes (acquired knowledge):

Acquired knowledge can be used in solving specific engineering problems, and it also represents the basis for taking other professional courses.

3. Course content/structure:

Definition and classification of signals and systems. Analysis in time and frequency domain. Discrete Fourier transform. Z-transform. Digital filters. Analysis on random signals. Applications in geodesy and geoinformatics Practice content: Practical application of presented concepts from lectures.

4. Teaching methods:

Lectures. Practice. Consultations.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Homework	Yes	5.00	Oral part of the exam	Yes	25.00
Homework	Yes	5.00	Practical part of the exam - tasks	Yes	25.00
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	B. Kovačević, Ž. Đurović	Sistemi automatskog upravljanja- zbornik rešenih zadataka	Nauka, Beograd	2000
2,	M.Stojić	Digitalni sistemi upravljanja	Nauka, Beograd	1998
3,	Christopher Jones	Geographical Information Systems and Computer Cartography	Longman	1997

Table 5.2 Course specification

Course:		Introduction to deformation measurement and analysis
Course id:	GI009	
Number of ECTS:	5	
Teacher:		Ninkov Đ. Toša
Course status:		Elective

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

Precondition courses: None

1. Educational goal:

To acquire basic and applied knowledge in the field of Geodesy, Geomatics and Geoinformatics. To acquire basic and applied knowledge in the field of Deformation Analysis.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in professional courses, as well as in the recognition and in solving the engineering problems.

3. Course content/structure:

Lecture content: - Fundamental measuring procedures in displacement monitoring. - Organization of the deformation research programme. - Project on homogenous observation system and the selection of measuring points. - Measuring plan and programme. - Optimal accuracy and economy of measurement. - Monitoring displacement and deformations using automated measuring systems. - Deformation analysis. - Statistic parameters, test and divisions – introduction to deformation analysis. - Histograms and frequency polygons of measuring errors. Deformation models (schools). - Hanover model. - Karlsruhe model. - Functional and stochastic equality models. - Data Snooping method. Variation homogeneity. - Global analysis. - Displacement localization. - Interpretation of the measuring results. - Movement approximation of individual measuring points of a structure. - Correlation between displacements between individual points in a structure. - Total structure deformation. - Research result presentation. - Technical report. Practice content: Practical application of presented concepts from lectures.

4. Teaching methods:

Lectures. Exercises. Prerequisites: 30% of points should be provided through obligatory tasks, during the teaching process. Examination: Knowledge evaluation: guided and individual elaboration of obligatory tasks; partial examination, The practical part of the examination-tasks 40%, final examination – oral form 30%.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance	Yes	5.00	Oral part of the exam	Yes	30.00
Lecture attendance	Yes	5.00	Practical part of the exam - tasks	Yes	40.00
Term paper	Yes	20.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	G. Milev	Geodatischen Methoden zur Untersuchung von Deformationen	Konrad Wittwer Stuttgart	1985
2,	Caspary, W. F	Concept of network and deformation analiysis	The university of New South Wales, Kensigton, Aus	1996
3,	grupa autora	Analiza i interpretacja wynikow geodezyjnych pomiarow deformacji	Polanica Zdroj	1987
4,	G. Milev	Svremenni geodezičeski metodi za izsledvane na deformacii	Tehnika, Sofia	1978
5,	Angela C. Rauhut	Integrated Deformation Analysis of the Olympic Oval, Calgary	The University of Calgary	1987

Table 5.2 Course specification

Course:		Gravimetry
Course id:	GI013	
Number of ECTS:	5	
Teacher:		Borisov A. Mirko
Course status:		Elective

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

Precondition courses: None

1. Educational goal:

To acquire basic and applied knowledge in the field of geodesy, geomatics and geoinformatics. To acquire basic and applied knowledge in the field of gravimetry.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in professional courses, as well as in the recognition and in solving the engineering problems.

3. Course content/structure:

Lecture content:
- Earth gravity, gravity potential
- Laplace differential equation and its solution
- Problem of the geodetic value boundary
- Poisson integral, Stokes` integral, Vening Meinesz integral
- Model of Earth`s gravity and gravitational anomaly
- Molodensky method
- Satellite altimetry, satellite gravity

Practice content:
Practical application of presented concepts from lectures

4. Teaching methods:

Prerequisites: obligatory tasks. Examination: Knowledge evaluation: assignments and oral exam.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance	Yes	5.00	Coloquium exam	No	20.00
Lecture attendance	Yes	5.00	Oral part of the exam	Yes	30.00
Project	Yes	40.00	Practical part of the exam - tasks	Yes	20.00

Literature

Ord.	Author	Title	Publisher	Year
1,	Christopher Jones	Geographical Information Systems and Computer Cartography	Longman	1997
2,	B. Glavatović	Osnovi Geonauka	Seizmološki zavod Crne Gore, Podgorica	2005

Table 5.2 Course specification

Course:		Celestial Mechanics
Course id:	GI014	
Number of ECTS:	5	
Teachers:		Ristić V. Aleksandar, Pribičević I. Boško
Course status:		Elective

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

Precondition courses: None

1. Educational goal:

To acquire basic and applied knowledge in the field of geodesy, geomatics and geoinformatics. To acquire basic and applied knowledge in the field of astronomy and geodetic astronomy.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in professional courses, as well as in the recognition and in solving the engineering problems.

3. Course content/structure:

Lecture content:
- Basic notions and classifications in astronomy
- Celestial coordinate system
- Coordinate transforms from one to another coordinate system
- Apparent daily and annual movement of the Sun. Bases in spherical astronomy.
- Astronomic refraction, precession, nutation, aberration, parallax, individual star movement
- Astrological ephemeris. Star catalogues. Time scales (UT0, UT1, UT2, ETR, UTC, TDT, BDT, TCG, TCB, TT, GPST, GLONASST). Movement of Earth`s poles. Celestial reference system. Determining azimuth.
- Basic notions in celestial mechanics: Coordinate systems in celestial mechanics. Plane velocity.
- Kepler`s laws. Motion of material point under the influence of central force. Binet equation. General gravity law. Newton`s task. Correction of the third Kepler`s law.
- 1st, 2nd and 3rd space speed. Introduction to the mechanics of artificial Earth satellite movement: Gravity field of Earth presented via spherical harmonious functions. Deviations in the movement of artificial Earth satellites. Historical overview of the development of satellite positioning systems.

Practice content:
Practical application of presented concepts from lectures.

4. Teaching methods:

Prerequisites: 30% of points should be provided through tests and obligatory tasks, during the teaching process. Examination: partial examinations – written form 30%, final examination – oral form 40%.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance	Yes	5.00	Oral part of the exam	Yes	40.00
Lecture attendance	Yes	5.00	Practical part of the exam - tasks	Yes	30.00
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Green, M. R.	Spherical astronomy	Cambridge University Press, Cambridge	1988
2,	Vujnović Vladis	Astronomija 1 : osnove astronomije i planetski sistem	Školska knjiga, Zagreb	1990
3,	Schödlbauer, A	Geodätische Astronomie, Grundlagen und Konzepte	Walter de Gruyter, Berlin	2000
4,	Branislav Ševarlić, Zaharije Brkić	Geodetska astronomija I	Građevinska knjiga, Beograd	1963

Table 5.2 Course specification

Course:		Bathymetry			
Course id:	GI019				
Number of ECTS:	5				
Teachers:		Ninkov Đ. Toša, Bulatović S. Vladimir, Borisov A. Mirko			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	1	1	0	0	
Precondition courses		None			

1. Educational goal:

To acquire basic and applied knowledge in the field of geodesy, geomatics and geoinformatics. To acquire basic and applied knowledge in the field of bathymetry.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in professional courses, as well as in the recognition and in solving the engineering problems.

3. Course content/structure:

Lecture content:
- Fundamentals in underwater acoustics
- Multibeam echosounder
- Two-frequency bathymetry
- Computer programmes for hydrographic surveying
- Laser methods for depth measurements
- LIDAR bathymetry

Practice content:
Practical application of presented concepts from lectures.

4. Teaching methods:

Obligatory tasks during. Exam: assignments and oral exam.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance	Yes	5.00	Coloquium exam	No	20.00
Lecture attendance	Yes	5.00	Coloquium exam	No	20.00
Term paper	Yes	20.00	Oral part of the exam	Yes	30.00
			Practical part of the exam - tasks	Yes	40.00

Literature

Ord.	Author	Title	Publisher	Year
1,	Christopher Jones	Geographical Information Systems and Computer Cartography	Longman	1997
2,	Keith R. McCloy	Resource Management Information Systems: Remote Sensing, GIS and Modelling	Taylor&Francis	2006

Table 5.2 Course specification

Course:		Advanced Geodesy
Course id:	GI301A	
Number of ECTS:	5	
Teacher:		Borisov A. Mirko
Course status:		Mandatory

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:

To acquire basic and applied knowledge in the field of advanced geodesy.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in professional courses, as well as in the recognition and in solving the engineering problems.

3. Course content/structure:

Lecture content:
Introduction to advanced geodesy. Earth ellipsoid. Fundamentals of geometry on the ellipsoid surface. Normal cross sections and geodetic line. Geodetic coordinate system. Solving spherical and ellipsoid triangles. Calculating geodetic coordinates. Connections between geoid and ellipsoid. Levelling geodetic-astronomic network. Determining geoid heights. Contemporary technologies and advanced geodesy today.

Practice content:
Practical application of presented concepts from lectures.

4. Teaching methods:

Prerequisites: 50% of points could be provided through the obligatory tasks during the teaching process. Examination: final examination – oral form, 50%.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Computer excersise defence	Yes	30.00	Coloquium exam	No	20.00
Exercise attendance	Yes	5.00	Theoretical part of the exam	Yes	50.00
Project task	Yes	15.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Nikola Čubranić	Viša geodezija 2. deo	Tehnička knjiga Zagreb	1974
2,	Abdulah Muminagić	Viša geodezija 1	Građevinski fakultet u Sarajevu	1981
3,	Abdulah Muminagić	Viša geodezija 2	Građevinski fakultet u Sarajevu	1987
4,	Petr Vaníček i Edward J. Krakiwsky	Geodezija: Koncepti (prevod sa engleskog jezika)	Savez geodeta Srbije - Geodetski žurnal	2005
5,	Aleksandar Živković	Viša geodezija	Građevinska knjiga Beograd	1972
6,	Zenon Hanžek	Sferna trigonometrija	Geodetski fakultet Zagreb	1983
7,	V.L. Assur, M.N.Kutuzov, M.M.Muravin	Viša geodezia	Nedra, Moskva	1971

Table 5.2 Course specification

Course:		Integrated Systems of Surveying
Course id:	GI401A	
Number of ECTS:	5	
Teacher:		Bulatović S. 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:

To acquire basic and applied knowledge in the field of geodesy, geomatics and geoinformatics. To acquire basic and applied knowledge in the field of terrain survey and integrated survey systems.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in professional courses, as well as in the recognition and in solving the engineering problems.

3. Course content/structure:

Advanced methods in GPS measurements, differential (DGPS) and real time kinematic survey (RTK). Methods for determining and techniques for searching ambiguities (least square method, variance-covariance, FASF, Lambda method and other), both for phase data and for the combination of phase and code data. Plans for GPS development and the advantages of new possibilities for the sensor integration in geomatics. Basic principles and prerequisites for sensor integration, advantages occurring from the integration. Sensor properties that are applied in the integration for geodetic and geoinformation purposes (GPS, inertial systems, remote detection sensors, odometers and gyroscopes). Algorithms for sensor integration. Integration of GPS and GIS. Sensor integration for non-geodetic purposes. Geomatic approach to sensor integration, defining the space for integrated sensors, problems in data gathering and data quality.

Practice content:
Practical application of presented concepts from lectures.

4. Teaching methods:

Prerequisites: 50% of points should be provided through obligatory tasks, during the teaching process. Examination: Knowledge evaluation: final examination – oral form.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Computer excersise defence	Yes	20.00	Oral part of the exam	Yes	50.00
Exercise attendance	Yes	5.00			
Lecture attendance	Yes	5.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Hofmann-Wellenhof, B., Lichtenegger, H.,Colins J.	GPS Theory and Practice		2001
2,	George Taylor, Geoff Blewitt	Inteligent Positioning – GIS – GPS Unification	Wiley	2006
3,	Peter A. Burrough, Rachael A. McDonnell	Principi geografskih informacionih sistema	Građevinski fakultet Beograd	2006

Table 5.2 Course specification

Course:		Final – Bachelor Thesis
Course id:	GIBSC	
Number of ECTS:	15	
Teachers:		
Course status:	Mandatory	

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

Precondition courses: None

1. Educational goal:

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, as well as to be able to answer remarks and questions.

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 Bachelor 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 Bachelor 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 Bachelor 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 Bachelor 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:	Internet Networks
Course id: E233	
Number of ECTS: 4	
Teachers:	Konjović D. Zora, Marković -. Milan, Okanović Đ. Dušan
Course status:	Elective

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 learn about the theoretical bases and technologies of TCP/IP networks.

2. Educational outcomes (acquired knowledge):

Understanding basic theory about TCP/IP networks. Gaining practical knowledge necessary for design, implementation and maintenance of local computer networks based on TCP/IP model.

3. Course content/structure:

Network standards and standardization bodies.
Passive and active equipment for realization of computer network, structured cabling. TCP/IP networks: ISO reference model and TCP/IP, data transmission (basics of OSI 1 protocol) Ethernet and serial connections (basics of OSI 1 protocol), IPv4, ICMPv4, routing principles, dynamic routing protocols, UDP, TCP, DNS, IP new generation.
Communication devices: hub, switch, router. Network services (SMTP). Evolution of campus networks (VLAN, VPN). Monitoring, control, protection of network: SNMP, package filtering, cryptography, firewalls, controlled access, naming services, etherification protocols, digital signature. Wireless communication and mobile computing: evolution, standard compatibility, specific characteristics, wireless LAN and satellite based networks, mobile Internet protocol.

4. Teaching methods:

Teaching methods include: Lectures, laboratory practice, homework assignments, and consultations. During the lectures the content of the course is presented using the necessary didactic tools while student active participation is encouraged. The practical aspect of the course is covered at laboratory practice classes through assignments which students do independently or with the help of teaching assistants as well as through homework assignments (obligatory or optional). A student is expected to demonstrate the ability of independent task solving or understanding of the solution. The evaluation is in the form of oral conversation with the teaching assistant. The course lecturer and assistants have consultations with the students. During the consultations the students are given additional explanations of the material covered at the lecture and practice classes, and in the case of consultations relating to independent work on laboratory or homework tasks, the suggestions are given on h

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Homework	Yes	5.00	Theoretical part of the exam	Yes	30.00
Homework	Yes	5.00			
Laboratory exercise attendance	Yes	5.00			
Laboratory exercise defence	Yes	50.00			
Lecture attendance	Yes	5.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	William Stallings	Data and Computer Communications	Prentice Hall, 2004, ISBN: 0-13-100681-9	2004
2,	Milan Kerac	Mrežno bazirani sistemi 1 - Priručnik za vežbe	FTN, 2004, (elektronsko izdanje)	2004

Table 5.2 Course specification

Course:		Laser Scanning of Terrain and Objects
Course id:	GI020	
Number of ECTS:	5	
Teachers:		Govedarica J. Miro, Pribičević I. Boško, Benka P. Pavel
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:

To acquire basic and applied knowledge in the field of geodesy, geomatics and geoinformatics. To acquire basic and applied knowledge in the field of 3D laser scanning of terrain and structures.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in professional courses, as well as in the recognition and in solving the engineering problems using laser scanning technology.

3. Course content/structure:

Fundamentals in 3D acquisition of geospatial data about objects and terrain, fundamentals in laser technology, technological bases, classification of laser scanning devices, terrestrial 3D scanners, rank scanners, triangular scanners, basic components of 3D laser scanners, calibration, scanners with moveable platforms, scanning techniques and data acquisition, error analyze, scanning result processing, quality check, points clouds, processing points clouds, registration and georeferencing points clouds, result presentation, algorithms and data structure, points clouds data formats, LAS data format, result accuracy assessment and quality control, integration with other sensors, examples of application in different areas.

4. Teaching methods:

Teaching forms: lectures, computer practice, consultations. Knowledge evaluation: guided and individual elaboration of 3 obligatory tasks and, four written test, final examination – oral form.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Computer excersise defence	Yes	10.00	Oral part of the exam	Yes	30.00
Computer excersise defence	Yes	10.00			
Computer excersise defence	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Christopher Jones	Geographical Information Systems and Computer Cartography	Longman	1997
2,	Grupa autora	ISPRS Journal of Photogrammetry and Remote Sensing, Volume 54, Number 2, July 1999	Elsevier	1999
3,	Keith R. McCloy	Resource Managament Information Systems Remote Sensing, GIS and Modelling	Taylor & Francis	2006
4,	K. Kraus	Photogrammetry: Geometry from Images and Laser Scans	Walter de Gruyter	2007
5,	Jie Shan, Charles K. Toth	Topographic Laser Ranging and Scanning: Principles and Processing	CRC Press	2008
6,	Lerma García, J.L., Van Genechten, B., Heine, E., Santana Quintero, M.	Theory and practice on Terrestrial Laser Scanning	Editorial de la Universidad Politécnica de Valencia	2008

Table 5.2 Course specification

Course:		Structure Value Assessment			
Course id:	GI021				
Number of ECTS:	5				
Teachers:		Milutin N. Darko, Bunčić M. Sonja			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	2	0	0	0	
Precondition courses		None			

1. Educational goal:

To acquire basic and applied knowledge in the field of geodesy, geomatics and geoinformatics. To acquire basic and applied knowledge in the field of structure value assessment.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in professional courses, as well as in the recognition and in solving the engineering problems.

3. Course content/structure:

Lecture content:
Basic notions on real estate value assessment

1. Land
- Types of land
- Land as a resource
- Land management
- Evidence, rights and obligations on a land
- Land taxes
- Land renting
- Market, prices, costs, incomes and values
- Land value
- Construction land
- Evaluation methods and value determination
- Procedure and documentation on evaluation
- Role and tasks of institutions
- Procedure and costs of usage
- Legal documentation

2. Structures
- Types of structures
- Structure management
- Evidence, rights and obligations for a structure
- Taxes on structures
- Market, prices, costs, incomes and values
- Renting
- Evaluation methods and value determination
- Procedure and documentation on evaluation
- Role and tasks of institutions
- Procedure and costs of usage
- Legal documentation

Practice content:
Practical application of presented concepts from lectures.

4. Teaching methods:

Prerequisites: tests and obligatory tasks, during the teaching process. Examination: Knowledge evaluation:practical tasks in written form, final examination in oral form.

Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES — Geodesy and Geomatics

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Homework	Yes	5.00	Oral part of the exam	Yes	20.00
Homework	Yes	5.00	Practical part of the exam - tasks	Yes	30.00
Homework	Yes	5.00			
Homework	Yes	5.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Peter Glover	Building Surveys	Butterworth Heinemann	2003
2,	G.S.T. Armer	Monitoring and Assessment of Structures	SPON Press, London & NY	2001
3,	Mitar Čvorović	Geodezija u građevinarstvu	Univerzitet Crne Gore, Unireks Nikšić	1993

Table 5.2 Course specification

Course:		Geodetic Metrology
Course id:	GI025B	
Number of ECTS:	5	
Teachers:		Bulatović S. Vladimir, Govedarica J. Miro, Ninkov Đ. Toša, Ristić V. Aleksandar
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:

To introduce students to the methods for precise geodetic measuring, to understand their significance and role in solving geodetic tasks, and to be able to individually perform precise geodetic measuring of angles, distances and heights.

2. Educational outcomes (acquired knowledge):

Enabling students to individually perform precise geodetic measuring and to use the methodology for the accuracy assessment.

3. Course content/structure:

1. Methods for precise geodetic measuring in the field of angle measurements. 2. Methods for precise geodetic measuring in the field of distance measurements using the electrical-optical rangefinder (eventually, introducing students to the distance measurement method using Invar scale bar). 3. Methods for precise geodetic measuring in the field of height measurements.

4. Teaching methods:

1. Lectures with a special emphasis on mathematical models used for describing precise geodetic measuring methods and their applications. Introduction to geodetic instruments for the realization of precise geodetic measuring of angles, distances and heights. 2. Practical levelling of values for set models.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance	Yes	5.00	Oral part of the exam	Yes	30.00
Lecture attendance	Yes	5.00	Practical part of the exam - tasks	Yes	40.00
Term paper	Yes	20.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Nikola Činklović	Metode preciznih geodetskih merenja	Građevinski fakultet Beograd	1980
2,	Radovan Mrkić	Geodetska metrologija	Gradjevinski fakultet Beograd i Naučna knjiga Beograd	1991
3,	Nikola Činklović	Analiza i prethodna ocenaa tačnosti preciznih geodetskih merenja	Građevinski fakultet Beograd, Institut za geodeziju	1978
4,	Slobodan Kontić i Radovan Mrkić	Elektronsko merenje dužina	Građevinski fakultet Beograd i Naučna knjiga Beograd	1987

Table 5.2 Course specification

Course:		Bases of mathematical cartography
Course id:	GI025C	
Number of ECTS:	5	
Teacher:		Borisov A. Mirko
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:

To acquire basic and applied knowledge in the field of geodesy, geomatics and geoinformatics. To acquire basic and applied knowledge in the field of mathematical cartography.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in professional courses, as well as in the recognition and in solving the engineering problems.

3. Course content/structure:

1. Introduction. Idea and tasks of cartographic projection. The important knowledges of the Earth ellipsoidal and sferical surface.
2. Elements of cartographic projection. The general equations of cartographic projections in decart coordinates. The general equations of cartographic projections in polary coordinates.
3. Clasification of cartographic projections. Criterions of classification.
4. The state (official) coordinate system. Gauss-Kruger projection. The general characteristics. Derivating of main equations.
5. Universal Transverse Mercator projection (UTM). The general characteristics. Derivating of main equations. The projected UTM cartographic coordinate system.

4. Teaching methods:

Prerequisites: 50% of points could be provided through the obligatory tasks during the teaching process. Final examination – oral form, 50%.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Computer excersise defence	Yes	30.00	Coloquium exam	No	20.00
Exercise attendance	Yes	5.00	Theoretical part of the exam	Yes	50.00
Project task	Yes	15.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Jovanović, V.	Matematička kartografija	VGI, Beograd.	1983
2,	Robinson, A. and others	Elements of Cartography	USA	1995

Table 5.2 Course specification

Course:		Utility Information Systems and their Application
Course id:	GI029	
Number of ECTS:	5	
Teachers:		Bulatović S. Vladimir, Ninkov Đ. Toša, Mihajlović R. Dragan
Course status:		Elective

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

Precondition courses: None

1. Educational goal:

Acquisition of basic and applied knowledge in the field of geodesy, geomatics and GIS. Acquisition of basic and applied knowledge in the field of municipal information systems.

2. Educational outcomes (acquired knowledge):

The knowledge acquired is used in specialized subjects, in formulating and solving engineering problems.

3. Course content/structure:

The basic concept of municipal information systems. Examples. Cadastre utility database. Selected sections of GIS (spatial reference, vector and raster data types, topologies, queries). Overview of OGC standards in distributed systems. Technology implementation.

4. Teaching methods:

Exam prerequisites: 30% of points a student could ensure implementation of mandatory tasks during teaching. Exam: Testing knowledge - guided and individual work tasks required. Final exam - in oral form

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	30.00	Oral part of the exam	Yes	30.00
			Practical part of the exam - tasks	Yes	40.00

Literature

Ord.	Author	Title	Publisher	Year
1,	Christopher Jones	Geographical Information Systems and Computer Cartography	Longman	1997
2,	Mihajlović D.	Informacioni sistemi i projektovanje baza podataka	Fakultet tehničkih nauka, Novi Sad	1998
3,	Njegoslav Vukotić, Jovana Zrnić	Katastar vodova	Viša građevinsko geodetska škola	2001
4,	Jevrosima Begović, Dragoljub Smiljković	Katastar zemljišta i podzemnih vodova	Naučna knjiga, Beograd	1990
5,	Njegoslav Vukotić, Milan Trifković	Deoba parcela i tabli u katastru i komasaciji	Viša građevinsko-geodetska škola, Beograd	2004
6,	Peter A. Burrough, Rachael A. McDonnell	Principi geografskih informacionih sistema	Građevinski fakultet Beograd	2006
7,	V. Bulatović	Model distribuiranja geopodataka u komunalnim sistemima		2011

Table 5.2 Course specification

Course:	Law and Legislation in Geodetic Profession
Course id: GI405	
Number of ECTS: 5	
Teacher:	Bunčić M. Sonja
Course status:	Elective

Number of active teaching classes (weekly)

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

Precondition courses: None

1. Educational goal:

To acquire basic and applied knowledge in the field of law. To acquire basic and applied knowledge in the field of law in the field of geodesy, geomatics and geoinformatics.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in professional courses, as well as in the recognition and in solving the engineering problems.

3. Course content/structure:

Lecture content:
- Legal system in the Republic of Serbia, legal systems worldwide
- Basic laws of European Union, European civil law
- Role and structure of state government, government functions
- Local government
- Courts, legal procedure
- Land registry, ownership
- Property law, real law, tort law, mortgage
- Inheritance law
- Registry law
- Criminal law
- Legal and physical subjects
- Copyrights

4. Teaching methods:

Prerequisites: tests and obligatory tasks, during the teaching process.

Examination:
Knowledge evaluation: theoretical part in written form, final examination in oral form.

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	Theoretical part of the exam	Yes	20.00
Homework	Yes	5.00	Oral part of the exam	Yes	30.00
Homework	Yes	5.00			
Homework	Yes	5.00			
Lecture attendance	Yes	5.00			
Test	Yes	10.00			
Theoretical part of the exam	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Vladimir Lukić	Katastar nekretnina	Šumarki fakultet Banja Luka	1995
2,	Miladinović Manojlo	Katastar nepokretnosti	Geokarta DOO Beograd	2004

Table 5.2 Course specification

Course:		Advanced Techniques in Geodetic Design and Monitoring
Course id:	GI505	
Number of ECTS:	5	
Teachers:		Ninkov Đ. Toša, Đogo B. Mitar
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:

To acquire basic and applied knowledge in the field of geodesy, geomatics and geoinformatics. To acquire basic and applied knowledge in the field of advanced techniques in geodetic design and monitoring.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in professional courses, as well as in the recognition and in solving the engineering problems.

3. Course content/structure:

Organization in performing geodetic works. Fundamentals in designing geodetic works. Classification of design techniques. Organization of monitoring geodetic works. Monitoring the geodetic work performances.

4. Teaching methods:

Prerequisites: obligatory tasks, during the teaching process. Examination: Knowledge evaluation: guided and individual elaboration of obligatory tasks; final examination – oral form.

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
Homework	Yes	20.00	Oral part of the exam	Yes	40.00
Lecture attendance	Yes	5.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Begović Aleksandar	Primenjena geodezija	Građevinski fakultet Beograd	1979
2,	Begović Aleksandar	Inženjerska geodezija 1	Građevinski fakultet Beograd	1990
3,	Begović Aleksandar	Inženjerska geodezija 2	Građevinski fakultet Beograd	1990
4,	George Taylor, Geoff Blewitt	Intelligent Positioning-GIS-GPS-Unification	Wiley	2006

Standard 06. Programme Quality, Contemporaneity and International Compliance

The study programme is coordinated with contemporary trends and situation in profession and it is compatible with similar programmes in international higher education institutions.
To monitor the quality of the study programme, a committee is in charge of making reasonable measures to improve the study process. Additional quality assurance is achieved by mandatory teacher meetings, meetings with students and graduate engineers. Adequate measures to improve the quality of work are regularly applied. This year the program is the winner of education in the field of geodesy to celebrate 175 years of surveying in Serbia. All teachers have a number of reaserch papers published in journals in SCI list, with a significant number of them who have more than five published papers. Support is provided for the students in terms of publishing scientific research papers.
The study programme in Geodesy and Geomatics, designed in this manner, is omniscient and provides students with the latest scientific and professional knowledge in this field.
The study programme in Geodesy and Geomatics is comparable and compatible with:

http://www.vermessung.uni-hannover.de
http://www.gug.uni-hannover.de/fileadmin/institut/pdf/studienregularien/modulkatalog_gug_po11.pdf

http://agf.unibl.org/85/agfbl/Geodetski

Standard 07. Student Enrollment

The Faculty of Technical Sciences, in accordance with the social demands and its own resources, enrols at the undergraduate academic studies in Geodesy and Geomatics, at the budget financing and self-financing, a certain number of students that is every year defined by the special Decision of the NNV FTN. The selection of the students and their enrolment is performed among the applied candidates based on their success during the previous education and the success at the qualification examination, as defined by the Statute on the enrolment of students to the study programmes.
Students from other study programmes, as well as those with already completed studies, can enrol this study programme. The basis for making a decision on enrolling students from other study programmes or persons who already completed studies is the valid documentation containing detailed information on the content of activities and results of activity evaluation achieved by the candidate within the other study programme or completed studies. The Evaluation committee (made by all heads of the chairs participating in the realization of the study programme) evaluate all passed activities by the candidates and based on the acknowledged number of points determine the year of studies that the candidate can enrol. The passed activities can be accepted entirely, can be accepted partially (the committee can ask for additional work) or need not be accepted.

Standard 08. Student Evaluation and Progress

The final grade at each individual course in this programme is formed by continual monitoring of students` accomplishments and the results obtained during the academic year and on final examinations.
Students master the study programme by taking examinations and thus obtaining a certain number of ECTS credits, in accordance with the study programme. Each course at the study programme has a set number of ECTS credits which students obtain on successfully passing the examination.
The number of ECTS credits is determined on the basis of working activities of students in taking a certain course and by applying the unique methodology at the Faculty of Technical Sciences for all study programmes. Students` success in mastering a certain course is constantly monitored during classes and is presented in points. Maximum number of points obtained in a course is 100.
Students obtain points from a course through their work during classes, fulfilment of their prerequisites and taking the examination. The minimal number of points that can be obtained by a student after fulfilling prerequisites during the teaching process is 30, and the maximal one is 70.
Each course at the study programme has a clear and publicly known mode of obtaining points. The manner of obtaining points during classes includes a number of points given to a student on the basis of each individual type of activities during classes, or by fulfilling prerequisites and taking examinations.
A student`s final achievement at a course is presented using grades from 5 (fail) to 10 (excellent). A student`s grade is based on the overall number of points obtained on fulfilling prerequisites and taking the examination, and in accordance with the quality of acquired knowledge and skills.
Student can be able to take the examination from a given course if they have done prerequisites. Additional conditions for taking the examination are defined individually for each course.
Student`s advancement during education is defined in the Regulations for Studying at the Undergraduate Academic Studies.

Standard 09. Teaching Staff

For the realization of the study programme in Geodesy and Geomatics, there is the faculty staff with necessary scientific and professional qualifications.
Total number of lecturers is adequate to the demands of the study programme and depends on the number of courses performed and the number of classes per course. The total number of lecturers is adequate to cover the total number of classes at the study programme, so that each lecturer has in average 180 classes of active teaching (lectures, tutorials, practice, practical work,...) annually, i.e. 6 classes per week. Out of the total number of necessary teachers, all 100% is employed full-time.
The number of assistants is adequate for the demands of the study programme. The total number of assistants at the study programme is adequate to cover the entire number of classes at the programme, so that assistants have the average of 300 classes of active classes annually, i.e. 10 classes per week.
Scientific and professional qualifications of the teaching stuff are adequate to educational scientific field and the level of their obligations. Each teacher has at least five references from the narrow professional and scientific field in which they hold lectures at the study programme.
The number of students in a group for lectures is up to 180, practice groups have up to 60 students and laboratory practice groups have up to 20 students.
No teacher has more than 12 classes per week. All data on lecturers and assistants (CV, title appointed, references) are available to the public.

Science, arts and professional qualifications

Name and last name:	Buchmeister S. Borut
Academic title:	Guest Professor
Name of the institution where the teacher works full time and starting date:	-
Scientific or art field:	Production Systems, Organization and Management

Academic carieer	Year	Institution	Field
Academic title election:	2008	Faculty of Technical Sciences - Novi Sad	Production Systems, Organization and Management
PhD thesis	1996	Faculty of Mechanical Engineering, University of Maribor - Maribor	Production Systems, Organization and Management
Magister thesis	1990	Faculty of Mechanical Engineering, University of Maribor - Maribor	Production Systems, Organization and Management
Bachelor's thesis	1986	Faculty of Mechanical Engineering, University of Maribor - Maribor	Production Systems, Organization and Management

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

	ID	Course name	Study programme name, study type
1.	M316	Production Systems	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
2.	IM1104	Strategic Management	(I20) Engineering Management, Undergraduate Academic Studies
3.	IM1106	Business Process Simulation	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
4.	IM1118	Business Productivity Tools	(I20) Engineering Management, Undergraduate Academic Studies
5.	HDOK4S	Selected chapters from automation of work processes	(I12) Industrial Engineering, Specialised Academic Studies
6.	I071B	Strateško upravljanje projektima(uneti naziv na engleskom)	(Z20) Environmental Engineering, Master Academic Studies
7.	IM2101	Intelligent Enterprising and Effective Management	(M50) Energy Management, Master Academic Studies (I20) Engineering Management, Master Academic Studies
8.	IM2103	New technologies in engineering and management	(I10) Industrial Engineering, Master Academic Studies (I20) Engineering Management, Master Academic Studies
9.	HDOK-4	Selected Chapters in Production Process Automation	(H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
10.	HDOKL4	Selected chapters from automation of work processes	(H00) Mechatronics, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	PANDŽA, Krsto, POLAJNAR, Andrej, BUCHMEISTER, Borut, THORPE, Richard. Evolutionary perspectives on the capability accumulation process. Int. j. oper. prod. manage., 2003, vol. 23, no. 8, str. 822-849. [COBISS.SI-ID 8111638], [JCR, WoS do 6. 12. 2011: št. citatov (TC): 9, čistih citatov (CI): 9, normirano št. čistih citatov (NC): 35, Scopus do 17. 6. 2012: št. citatov (TC): 11, čistih citatov (CI): 11, normirano št. čistih citatov (NC): 43]
2.	BUCHMEISTER, Borut, KREMLJAK, Zvonko, PANDŽA, Krsto, POLAJNAR, Andrej. Simulation study on the performance analysis of various sequencing rules. Int. j. simul. model., June/September 2004, vol. 3, no. 2/3, str. 80-89. [COBISS.SI-ID 9075990]
3.	PANDŽA, Krsto, POLAJNAR, Andrej, BUCHMEISTER, Borut. Strategic management of advanced manufacturing technology. Int. j. adv. manuf. technol., 2005, vol. 25, 3/4, str. 402-408. http://dx.doi.org/10.1007/s00170-003-1804-x. [COBISS.SI-ID 9383190], [JCR, WoS do 6. 5. 2011: št. citatov (TC): 6, čistih citatov (CI): 5, normirano št. čistih citatov (NC): 9, Scopus do 10. 9. 2012: št. citatov (TC): 14, čistih citatov (CI): 13, normirano št. čistih citatov (NC): 23]
4.	KREMLJAK, Zvonko, POLAJNAR, Andrej, BUCHMEISTER, Borut. Hevristični model razvoja proizvodnih zmogljivosti = A heuristic model for the development of production capabilities. Stroj. vestn., 2005, letn. 51, št. 11, str. 674-691. [COBISS.SI-ID 8659739], [JCR, WoS do 6. 11. 2012: št. citatov (TC): 6, čistih citatov (CI): 5, normirano št. čistih citatov (NC): 8, Scopus do 18. 6. 2012: št. citatov (TC): 7, čistih citatov (CI): 6, normirano št. čistih citatov (NC): 9]
5.	TASIČ, Tadej, BUCHMEISTER, Borut, AČKO, Bojan. Razvoj naprednih metod za vodenje proizvodnih postopkov = The development of advanced methods for scheduling production processes. Stroj. vestn., 2007, letn. 53, št. 12, str. 844-857. [COBISS.SI-ID 12075030], [JCR, WoS do 6. 12. 2011: št. citatov (TC): 9, čistih citatov (CI): 8, normirano št. čistih citatov (NC): 11, Scopus do 1. 8. 2012: št. citatov (TC): 9, čistih citatov (CI): 8, normirano št. čistih citatov (NC): 11]

Representative refferences (minimum 5, not more than 10)	
6.	KREMLJAK, Zvonko, BUCHMEISTER, Borut. Uncertainty and development of capabilities, (DAAAM Publishing series, Management Science). Vienna: DAAAM International Publishing, 2006. X, 143 str., graf. prikazi. ISBN 3-901509-55-0. [COBISS.SI-ID 57398785]
7.	POLAJNAR, Andrej, BUCHMEISTER, Borut, LEBER, Marjan. Proizvodni menedžment. Ponatis. V Mariboru: Fakulteta za strojništvo, 2005. VI, 415 str., 28 str. pril., ilustr., preglednice. ISBN 86-435-0379-7. [COBISS.SI-ID 54649089]
8.	BUCHMEISTER, Borut, PANDŽA, Krsto, PALČIČ, Iztok. Idejna študija o ustanavljanju regionalnega logističnega centra za vzdrževanje in popravila vojaških in namenskih vozil. Maribor: Fakulteta za strojništvo, 2002. 28, 6 f. pril., ilustr. [COBISS.SI-ID 7612438]l
9.	PALČIČ, Iztok, BALAŽIC, Matej, MILFELNER, Matjaž, BUCHMEISTER, Borut. Potential of laser engineered net shaping (LENS) technology. Mater. manuf. process., 2009, vol. 24, no. 7/8, str. 750-753, doi: 10.1080/10426910902809776. [COBISS.SI-ID 13243670], [JCR, WoS do 6. 11. 2012: št. citatov (TC): 6, čistih citatov (CI): 5, normirano št. čistih citatov (NC): 5, Scopus do 8. 8. 2012: št. citatov (TC): 7, čistih citatov (CI): 6, normirano št. čistih citatov (NC): 6]
10.	PALČIČ, Iztok, BUCHMEISTER, Borut, POLAJNAR, Andrej. Analysis of innovation concepts in Slovenian manufacturing companies. Stroj. vestn., 2010, vol. 56, no. 12, str. 803-810. http://www.sv-jme.eu/scripts/download.phpfile=/data/upload/2010/12/03_2010_083_Palcic_3k.pdf. [COBISS.SI-ID 14634774], [JCR, WoS do 6. 11. 2012: št. citatov (TC): 7, čistih citatov (CI): 7, normirano št. čistih citatov (NC): 8, Scopus do 17. 10. 2012: št. citatov (TC): 8, čistih citatov (CI): 8, normirano št. čistih citatov (NC): 9]

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	43			
Total of SCI(SSCI) list papers :	15			
Current projects :	Domestic :	1	International :	1

Science, arts and professional qualifications

Name and last name:	Aleksić R. Ivan
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Civil Engineering - Beograd
	01.05.1982
Scientific or art field:	Geodetic Engineering

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Civil Engineering - Beograd	Geodetic Engineering
PhD thesis	1992	Faculty of Civil Engineering - Beograd	Geodesy
Magister thesis	1988	Faculty of Civil Engineering - Beograd	Geodesy
Bachelor's thesis	1982	Faculty of Civil Engineering - Beograd	Geodetic Engineering

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

	ID	Course name	Study programme name, study type
1.	GI010A	Active Geodetic Reference Networks	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
2.	GI533	Optimization in geodetic surveying	(GI0) Geodesy and Geomatics, Master Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Koncepti mreža u geodetskom premeru – Monografija / K. Mihailović, I. R. Aleksić. - Beograd: Privredno društvo za kartografiju "GEOKARTA" d.o.o., 2008. - 725 s. (ISBN 978-86-459-0337-5).
2.	State survey and real estate cadastre in Serbia development and maintenance strategy / I. R. Aleksic, O. R. Odalovic and D. M. Blagojevic // Survey Review 42, No. 318, pp. 388-396 October 2010, (ISSN-0039-6265). University of the West of England, United Kingdom. (http://www.surveyreview.org)
3.	The establishment of a new gravity reference frame for Serbia /O. R. Odalović, M. Starcević, S. Grekulović, M Burazer, I R. Aleksić // Survey Review 44, No. 327, pp. 272-281 October 2012, (ISSN-0039-6265). University of the West of England, United Kingdom. (http://www.surveyreview.org)
4.	Real estate cadastre development in Serbia / J. Kaufmann, I. R. Aleksic and O. R. Odalovic // Geodetski list, 3 (2009), pp. 243-254 (ISSN–0016-710). Glasilo Hrvatskog geodetskog društva. Zagreb. (http://hrcak.srce.hr/ geodetski-list)
5.	On Computational Aspects of Data Procesing of Geodetic Networks with Large Number of Unknown Parameters/ I. R. Aleksic, N. Dj. Perin, J. M. Popović // Geodetski list, 4 (2011), pp. 323-334 (ISSN–0016-710). Glasilo Hrvatskog geodetskog društva. Zagreb.(http://hrcak.srce.hr/ geodetski-list)
6.	Analysis of vertical deflection differences obtained by astrogeodetic and gravimetric methods/ O. Odalović, J. Gučević, V. Ogrizović, I. R. Aleksić // Proceedings of the XIII National Conference of Yugoslav Astronomers. Belgrade, 2003. vol. br. 75, pp. 217-220. ISI/Web of Science ili (http://publications.aob.rs /75/pdf/217-220.pdf)
7.	Optimization of geodetic networks with stochastic observations / I. R. Aleksić // The 8-th International Symposium on Geodetic Computation. Wuhan, 1990. International Association of Geodesy - IAG–International Union of Geodesy and Geophysics. pp. 200-212.
8.	NetExpert - Software Package / I. R. Aleksić, N. Perin, J. Popović // International Symposium "Modern technologies of Cadastre". Sofia, 1997. FIG/ISPRS/ICA. pp. 151-156.
9.	Establishment of active geodetic network in Serbia / O. Odalović, I. R. Aleksić // InterGEO East - Conference for Landmanagement, Geoinformation, Building Industry, Environment and Third Croatian congress on cadastre with international participation. Zagreb, 2005. Proceedings: ISBN 953-97081-5-X, Croatian geodetic society, Zagreb, pp. 375-381.
10.	Active Geodetic Network of Serbia / O. Odalović, I. R. Aleksić // XXIII International FIG Congress and INTERGEO. International Federation of Surveyors (FIG), German Association of Surveying-Society for Geodesy, Geo-Information and Land Management (DVW). Munich, Germany, 2006. Proceedings: ISBN 87-90907-52-3, FIG Office Proceedings. Lindevangs Alle 4, DK-2000 Frederiksberg, Denmark, pp. TS3-CORS 1-5.

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 :	1

Science, arts and professional qualifications

Name and last name:	Benka P. Pavel
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Agriculture - Novi Sad
	01.10.2007
Scientific or art field:	Geodetic Engineering

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Agriculture - Novi Sad	Geodetic Engineering
PhD thesis	2012	Faculty of Agriculture - Novi Sad	Biotechnic Science
Magister thesis	1997	Faculty of Civil Engineering - Beograd	Geodesy
Bachelor's thesis	1990	Faculty of Civil Engineering - Beograd	Geodesy

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

	ID	Course name	Study programme name, study type
1.	GI020	Laser Scanning of Terrain and Objects	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
2.	GI204A	Basic cartography	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
3.	GI406A	Fundamentals of Remote Sensing and Image Processing	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Damjanović T., Benka P.: Osnove uređenja i zaštite zemljišne teritorije i poseda u Srbiji, Novi Sad, Poljoprivredni Fakultet Univerziteta u Novom Sadu, 2011, ISBN 978-86-7520-211-0, UDK: 528.4(497.11) 626.8(497.11)
2.	Benka P., Bulatovic V.:"Geographic Information System in Irrigation System Management", VIIth International Symposium Interdisciplinary regional research - ISIRR 2003, pp614-619, Hunedoara, Romania, 2003.
3.	Benka P., Damjanović T.: Pozemkové úpravy cestou komasácie a posudzovanie vplyvov na životné prostredie v Juhoslávii, ENVIRO - NITRA 2000, pp 7-9, Nitra, Slovakia, 2000.
4.	Benka P.: Deformaciona merenja brane na Tisi kod Novog Bečeja geodetskom metodom, Vodoprivreda br. 183-185 (2000/1-3), str. 278-281, JDON, Beograd, 2000.
5.	Damjanović T., Benka P.: Prostorni uticaji akumulacija na uređenje, korišćenje i zaštitu poljoprivrednog zemljišta u okruženju, Vodoprivreda br. 183-185 (2000/1-3), str. 152-159, JDON, Beograd, 2000.
6.	Damjanovic T., Benka P.: Causes, conseqences of the changes and the present state of agricultural estates in Serbia, European Society for Agronomy, Fifth Congress, Volume I, pgs: 159-160, European Society for Agronomy, Nitra, Slovakia, 1998.
7.	Benka P., Bulatović V.: Distribucija GIS podataka putem WMS servera za potrebe melioracija, 8. Melioracije 08, Novi Sad: Poljoprivredni fakultet, 23 Januar, 2008, pp. 36-42, ISBN 978-86-7520-138-0, UDK: 626.8(082)
8.	Benka P., Bezdan A., Piperski J., Gregorič G., Salvai A.: APPLICATION OF GEOSTATISTICAL INTERPOLATION METHODS FOR DROUGHT INDICES MAPPING, Contemporary Agriculture, 2010, Vol. 59, No 3-4, pp. 363-370, ISSN 0350-1205, UDK: 63(497.1)(51)-"540.2"
9.	Benka P.: Effects of restructuring of land territory by consolidation on the plot suitability for agricultural production, 1. International Scientific Conference - Professional Practice and Education in Geodesy and Related Fields, Kladovo: Građevinski fakultet Univerziteta u Beogradu, 24-26 Jun, 2011, pp. 348-355, ISBN 978-86-7518-135-4, UDK: 528(082) 528-051:37.018.48(082)
10.	Benka P., Radomirović D., Bezdan A., Piperski J.: Određivanje protoka otpadnih voda iz cevi pomoću fotogrametrijske metode, 10. Melioracije 10, Novi Sad: Poljoprivredni fakultet , 28 Januar, 2010, pp. 7-18, ISBN 978-86-7520-178-6, UDK: 626.8(082)

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:	Berić B. Andrijana
Academic title:	Lecturer
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	04.11.2004
Scientific or art field:	German

Academic carieer	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	German
Master's thesis	2009	Faculty of Philology - Beograd	German
Bachelor's thesis	2003	Faculty of Philosophy - Novi Sad	German

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

	ID	Course name	Study programme name, study type
1.	F330	German Language – LSP Course 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
2.	F331	German Language – LSP Course 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
3.	NJ01Z	German Language – Elementary	(A00) Architecture, Undergraduate Academic Studies (AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies (F00) Graphic Engineering and Design, 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
4.	NJ02L	German Language – Pre-Intermediate	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (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 (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
5.	NJ03Z	German Language – Intermediate	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
6.	NJ04L	German Language – Upper-Intermediate	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies (F00) Graphic Engineering and Design, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
7.	NJ05	German Language for GRID 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
8.	NJ06	German Language for GRID 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
9.	NJ1L	German Language - Elementary	(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
10.	NJT1	German Language for Engineers 1	(H00) Mechatronics, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
11.	SSIP22	German Language for Engineers 1	(E01) Power Engineering - Renewble Sources of Electrical Energy, Undergraduate Professional Studies
12.	NJ01Z	Nemački jezik - osnovni(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
13.	NJ02L	Nemački jezik - niži srednji(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
14.	NJ03Z	Nemački jezik - srednji(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
15.	NJ04L	Nemački jezik - napredni srednji(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
16.	NJT1	Nemački jezik u tehnici 1(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
17.	NJ02L	German Language – Pre-Intermediate	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
18.	NJIIM	German for Specific Purposes	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies

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

	ID	Course name	Study programme name, study type
19.	F508	German Language for GRID 3	(F00) Graphic Engineering and Design, Master Academic Studies
20.	nja	German Language in Architecture	(AH0) Architecture, Master Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Prevod: Inovacije i trendovi u proizvodnji alatnih mašina
2.	Prevod: Inženjerstvo mehatroničnih sistema
3.	Prevodi za Pro Elektro (u toku)
4.	Prevod: Arbeitszenarien und Optimierung von Abläufen und Steuerung von selbstorganisierenden Bionic Assembly System in CIM Umgebung (u toku)

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:	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:	Bojanić M. Dubravka
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	24.06.2003
Scientific or art field:	Automatic Control and System Engineering - biomedicine

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering - biomedicine
PhD thesis	2012	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Magister thesis	2003	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Bachelor's thesis	1998	School of Electrical Engineering - Beograd	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.	AU42	Technical Equipment for Control Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	AU43	Fundamentals of Biomedical Engineering	(BM0) Biomedical Engineering, Undergraduate Academic Studies (E20) Computing and Control Engineering, Undergraduate Academic Studies
3.	AU47	DSP Applications in Control Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
4.	AU49	Methods of Medical Image Forming and Analysis	(E20) Computing and Control Engineering, Undergraduate Academic Studies
5.	AUN43	Biomedical Engineering Technologies	(E20) Computing and Control Engineering, Undergraduate Academic Studies
6.	GI007	Digital Signal Processing in Geomatics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
7.	BMI112	Biomedical engineering in sport physiology	(BM0) Biomedical Engineering, Undergraduate Academic Studies
8.	BMI113	Neuroengineering	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	BMI114	Neural Prosthesis	(BM0) Biomedical Engineering, Undergraduate Academic Studies
10.	BMI122	Neurorehabilitation	(BM0) Biomedical Engineering, Undergraduate Academic Studies
11.	BMI124	System Modeling and Simulation	(BM0) Biomedical Engineering, Undergraduate Academic Studies
12.	BMI125	Biological Control Systems	(BM0) Biomedical Engineering, Undergraduate Academic Studies
13.	E2314	Microprocessor Based Control Devices	(E20) Computing and Control Engineering, Undergraduate Academic Studies
14.	SEAU03	Real-time control algorithms	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
15.	SEAU05	DSP Applications in Control Systems	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
16.	SEAU07	Signals and systems	(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
17.	SEAU08	Microprocessor Based Control Devices	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
18.	AU503	Methods of Analysing Electrophysiological Signals	(E20) Computing and Control Engineering, Master Academic Studies
19.	AU504	Movement Control	(E20) Computing and Control Engineering, Master Academic Studies
20.	AU505	Neural Prostheses	(E20) Computing and Control Engineering, Master Academic Studies
21.	AU507	Principles of Biomedical Engineering	(E20) Computing and Control Engineering, Master Academic Studies
22.	AU508	Information Flow in Medicine	(E20) Computing and Control Engineering, Master Academic Studies
23.	BMIM3A	Biophysiological systems modelling	(BM0) Biomedical Engineering, Master Academic Studies
24.	BMIM3C	Functional Electrical Therapy	(BM0) Biomedical Engineering, Master Academic Studies
25.	SEAM01	Intelligent Control Systems	(SE0) Software Engineering and Information Technologies, Master Academic Studies
26.	SEAM04	Soft Sensors	(SE0) Software Engineering and Information Technologies, Master Academic Studies
27.	DAU007	Selected Topics in Artificial Intelligence in Control and Signal Processing	(E20) Computing and Control Engineering, Doctoral Academic Studies
28.	DAU008	Selected Chapters in Signal Processing in Biomedical Engineering	(E20) Computing and Control Engineering, Doctoral Academic Studies
29.	DAU009	Selected Chapters in Biomedical Instrumentation and Telemetry	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Popovic-Bijelic A., Bijelic G., Jorgovanović N., Bojanić D., Popović M., Popović D.: Multi-field surface electrode for selective electrical stimulation , Artificial Organs, 2005, Vol. 29, No 6, pp. 448-452, ISSN 0160-564X
2. Čongradac V., Bojanić D., Čapko D.: Algorithm for blinds control based on the optimization of blind tilt angle using a genetic algorithm and fuzzy logic, Solar Energy, 2012, Vol. 86, No 9, pp. 2762-2770, ISSN 0038-092X
3. Bojanić D., Petrovački-Balj B., Jorgovanović N., Ilić V.: Quantification of dynamic EMG patterns during gait in children with cerebral palsy, Journal of Neuroscience Methods, 2011, No 198, pp. 325-331, ISSN 0165-0270
4. Popovic, M.B., Jorgovanovic, N., Bijelic, G., Bojanic, D., Popovic, D.B., Synergistic Control of Grasping and Releasing In Humans with Paralysis, Proc of REDISCOVER 2004 Southeastern Europe, USA, Japan and European Community Workshop on Research and Education in Control and Signal Processing, June 14-16, 2004, Cavtat, Croatia, pp 86-89.
5. Bijelic, G., Jorgovanovic, N., Bojanic, D., Popovic-Bijelic, A., Popovic, D.B., Actitrode – a selective Array Electrode: A Tool to Generate Grasp and Release by Surface Electrical Stimulation, MEDICON, Ischia, July 31-August 5, 2004.
6. Popovic-Bijelic, A., Bijelic, G., Jorgovanovic, N., Bojanic, D., Popovic, D.B., Popovic, M.B., Multi-field surface electrode for selective electrical stimulation, Proc 8th Vienna Workshop on FES, Sep 10-13, 2004., pp 195-198
7. Bojanić D., Petrović R., Jorgovanović N., Popović D.: Dyadic Wavelets for Real-time Heart Rate Monitoring, 8. NEUREL - Symposium on Neural Network Applications in Electrical Engineering, IEEE, belgrade, 25-27 Septembar, 2006, pp. 133-136, ISBN 1-4244-0432-0
8. Bojanic, D., Popovic, D.B., "QRS detection from an ongoing ECG recordings by using dyadic wavelets", 2nd European Medical and Biological Engineering Conference, Vienna, December, 2002.
9. Bojanić D.: Razvoj ekspertnog sistema za interpretaciju elektrofizioloških signala, Doktorska disertacija, Univerzitet u Novom Sadu, Fakultet tehničkih nauka, januar 2012.
10. Bojanić Dubravka, "Detekcija QRS kompleksa u EKG signalu korišćenjem dyadic wavelet transformacije", Magistarska teza, Univerzitet u Novom Sadu, Fakultet tehničkih nauka, Novi Sad, februar 2003.

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

Quotation total :	62			
Total of SCI(SSCI) list papers :	3			
Current projects :	Domestic :	1	International :	1

Science, arts and professional qualifications

Name and last name:	Borisov A. Mirko
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.10.2011
Scientific or art field:	Automatic Control and System Engineering - Geoinformatics

Academic carieer	Year	Institution	Field
Academic title election:	2011	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering - Geoinformatics
PhD thesis	2004	Faculty of Civil Engineering - Beograd	Geodesy
Magister thesis	1997	Faculty of Civil Engineering - Beograd	Geodesy
Bachelor's thesis	1991	Faculty of Civil Engineering - Beograd	Geodesy

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

	ID	Course name	Study programme name, study type
1.	GI013	Gravimetry	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
2.	GI019	Bathymetry	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
3.	GI301A	Advanced Geodesy	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	GI404A	Digital Terrain Models	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
5.	GG99	Geospatial technologies - basics	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
6.	GI025C	Bases of mathematical cartography	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
7.	GI204A	Basic cartography	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
8.	GI209	Photogrammetry	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
9.	GI406A	Fundamentals of Remote Sensing and Image Processing	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
10.	GI501	Geoportals and Geospatial Services	(GI0) Geodesy and Geomatics, Master Academic Studies
11.	GI512	Multimedia Cartography	(GI0) Geodesy and Geomatics, Master Academic Studies
12.	GI517	Digital Photogrammetry	(GI0) Geodesy and Geomatics, Master Academic Studies
13.	GI518	Geodesy in City Planning	(GI0) Geodesy and Geomatics, Master Academic Studies
14.	GI602	Geodetic astronomy	(GI0) Geodesy and Geomatics, Master Academic Studies
15.	GI534	Service oriented architecture in GIS	(GI0) Geodesy and Geomatics, Master Academic Studies
16.	GI535	Mathematical cartography	(GI0) Geodesy and Geomatics, Master Academic Studies
17.	GI540	Valuation of real estate	(GI0) Geodesy and Geomatics, Master Academic Studies
18.	GI700	Geospatial data visualization	(GI0) Geodesy and Geomatics, Master Academic Studies
19.	GIAU03	Remote Sensing and Computer Image Processing	(E20) Computing and Control Engineering, Master Academic Studies
20.	SDGI01	Selected topics in geoinformation systems	(GI0) Geodesy and Geomatics, Specialised Academic Studies
21.	SDGI06	Selected Chapters in Real Estate Cadastre	(GI0) Geodesy and Geomatics, Specialised Academic Studies
22.	SDGI10	Selected Chapters in Landscape Arrangement	(GI0) Geodesy and Geomatics, Specialised Academic Studies
23.	SDGI1B	Selected Chapters in Cartography Projections	(GI0) Geodesy and Geomatics, Specialised Academic Studies
24.	SDGI1C	Selected topics in geospatial data visualization	(GI0) Geodesy and Geomatics, Specialised Academic Studies
25.	SDGI1F	Selected topics in photogrammetry	(GI0) Geodesy and Geomatics, Specialised Academic Studies

Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES — Geodesy and Geomatics

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

	ID	Course name	Study programme name, study type
26.	SDGI2F	Selected Chapters in Digital Terrain Models	(GI0) Geodesy and Geomatics, Specialised Academic Studies
27.	SDGI3B	Selected Chapters of Thematic Cartography	(GI0) Geodesy and Geomatics, Specialised Academic Studies
28.	SDGI5B	Selected Chapters in Multimedia Cartography	(GI0) Geodesy and Geomatics, Specialised Academic Studies
29.	SDGI5D	Selected Chapters in the Mass Appraisal of Real Estate	(GI0) Geodesy and Geomatics, Specialised Academic Studies
30.	SDGI5F	Basic topics in remote sensing and image processing	(GI0) Geodesy and Geomatics, Specialised Academic Studies
31.	SDGI6A	Selected Chapters in Appraisal	(GI0) Geodesy and Geomatics, Specialised Academic Studies
32.	DGI005	Selected Chapters in Contemporary Cartography	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
33.	DGI007	Selected Chapters in Advanced Geodesy	(GI0) Geodesy and Geomatics, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Mirko Borisov; Problems of the Scale and Building of Topographical Data Infrastructure; Geodetski list, Vol.64 (87) No.2 June 2010
2.	Govedarica M., Borisov M.: THE ANALYSIS OF DATA QUALITY OF TOPOGRAPHIC MAPS (IF 2010=0.215), Geodetski vestnik, 2011, Vol. 55, No 4, pp. 713-725, ISSN 0351-0271, UDK: 528=863
3.	The Modern architecture of GIS and Cartographic key at the environment of Web Map Server
4.	The national cartographic project in Serbia
5.	Topographic map at the scale 1:250 000 - The first map in army of Serbia produced according to NATO standards
6.	Borisov M.: The concept GIS web portal of the Military Geographical Institute, 4. International Scientific Conference on Defensive Technologies - OTEH, Beograd, 6-7 Oktobar, 2011
7.	Borisov M.: Digitalizovane mape prostora u sistemu upravljanja hemijskim udesima, 2. Međunarodni simpozijum "Zaštita životne sredine u industrijskim područjima", Kosovska Mitrovica, 24-29 April, 2009, pp. 489-495, ISBN 978-86-80893-23-5
8.	Borisov M.: The development and perspectives of GIS at the scale of 1:300 000, 3. InterGEO East Conference, Beograd, 22-24 Februar, 2006
9.	Dr Mirko Borisov, dipl. inž.- Razvoj GIS 2006, monografija , Zadužbina Andrejević, Beograd 86 str.
10.	Borisov M.: Geodetska delatnost u Srbiji 1837.-2012. godina, Beograd, Republički geodetski zavod, 2012, str. 98-113, ISBN 978-86-459-0422-8

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:	Budinski-Petković M. Ljuba
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.10.1989
Scientific or art field:	Physics

Academic carieer	Year	Institution	Field
Academic title election:	2009		Physics
PhD thesis	1998	Faculty of Sciences - Novi Sad	Physics
Magister thesis	1996	Faculty of Physics - Beograd	Physics
Bachelor's thesis	1988	Faculty of Sciences - Novi Sad	Physics

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

	ID	Course name	Study programme name, study type
1.	E215	Physics	(E20) Computing and Control Engineering, Undergraduate Academic Studies
2.	H101	Physics	(F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (H00) Mechatronics, Undergraduate Academic Studies
3.	IAFI01	Colors and Light	(F10) Engineering Animation, Undergraduate Academic Studies
4.	BMI93	Physics	(BM0) Biomedical Engineering, Undergraduate Academic Studies
5.	DZ01FS	Selected Chapters in Physics	(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
6.	DZ01F	Selected Chapters in Physics	(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 (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. Budinski-Petković Lj., Lončarević I., Petkovic M., Jaksic Z., Vrhovac S.: Percolation in random sequential adsorption of extended objects on a triangular lattice, Physical Review E, 2012, Vol. 85, No 061117, pp. 1-8
2. Šćepanović J., Lončarević I., Budinski-Petković Lj., Jakšić Z., Vrhovac S.: Relaxation properties in a diffusive model of k-mers with constrained movements on a triangular lattice, Physical Review E, 2011, Vol. 84, No 031109, pp. 1-13
3. Budinski-Petković Lj., Lončarević I., Jakšić Z., Vrhovac S., Švrakić N.: Simulation study of anisotropic random sequential adsorption of extended objects on a triangular lattice, Physical Review E, 2011, Vol. 84, No 5, pp. 5160-1

Representative refferences (minimum 5, not more than 10)

4.	Lončarević I., Budinski-Petković Lj., Vrhovac S., Belić A.: Generalized random sequential adsorption of polydisperse mixtures on a one-dimensional lattice, Journal of Statistical Mechanics: Theory and Experiment, 2010, ISSN 1742-5468
5.	Lončarević I., Budinski-Petković Lj., Vrhovac Lj., Belić A.: Adsorption, desorption, and diffusion of k-mers on a one-dimensional lattice, Physical Review E, 2009, Vol. 80, No 2
6.	Budinski-Petković Lj., Vrhovac S., Lončarević I.: Random sequential adsorption of polydisperse mixtures on discrete substrates, Physical Review E, 2008, Vol. 78, No 061603, pp. 1-7
7.	Lončarević I., Budinski-Petković Lj., Vrhovac S.: Simulation study of random sequential adsorption of mixtures on a triangular lattice , The European Physical Journal E, 2007, Vol. 24, pp. 19-26, ISSN 1292-8941
8.	Lončarević I., Budinski-Petković Lj., Vrhovac S.: Reversible random sequential adsorption of mixtures on a triangular lattice, Physical Review E, 2007, Vol. 76, No 031104, pp. 1-9
9.	Arsenović D., Vrhovac S., Jakšić Z., Budinski-Petković Lj., Belić A.: Simulation study of granular compaction dynamics under vertical tapping, Physical Review E, 2006, Vol. 74
10.	Lj. Budinski-Petković and S. B. Vrhovac: Memory effects in vibrated granular systems: Response properties in the generalized random sequential adsorption model, The European Physical Journal E, 2005, Vol. 16, pp. 89-96, ISSN 1292-8941

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

Quotation total :	75			
Total of SCI(SSCI) list papers :	30			
Current projects :	Domestic :	1	International :	1

Science, arts and professional qualifications

Name and last name:	Bulatović S. Vladimir
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.03.2003
Scientific or art field:	Geodesy

Academic carieer	Year	Institution	Field
Academic title election:	2011	Faculty of Technical Sciences - Novi Sad	Geodesy
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Geodesy
Magister thesis	2007	Faculty of Organizational Sciences - Beograd	Information-Communication Systems
Bachelor's thesis	2001	Faculty of Civil Engineering - Beograd	Geodesy

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

	ID	Course name	Study programme name, study type
1.	GG08	Geodesy	(G00) Civil Engineering, Undergraduate Academic Studies
2.	GI019	Bathymetry	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
3.	GI025B	Geodetic Metrology	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	GI029	Utility Information Systems and their Application	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
5.	GI210	Mean Value Calculation	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
6.	GI307A	Engineering Geodesy	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
7.	GI207	GNSS basics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
8.	GI401A	Integrated Systems of Surveying	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
9.	GI403	Methods for Precise Geodetic Measurements and Data Processing	(GI0) Geodesy and Geomatics, Master Academic Studies
10.	GI502	Location Based Services	(GI0) Geodesy and Geomatics, Master Academic Studies
11.	GI514	Engineering Geodesy 3	(GI0) Geodesy and Geomatics, Master Academic Studies
12.	GI518	Geodesy in City Planning	(GI0) Geodesy and Geomatics, Master Academic Studies
13.	GI600	Applied Geophysics in Geomatics	(GI0) Geodesy and Geomatics, Master Academic Studies
14.	URZP65	Geodetic methods for the determination of geodynamic movements	(ZP1) Disaster Risk Management and Fire Safety, Master Academic Studies
15.	GI531	Application of GNSS systems	(GI0) Geodesy and Geomatics, Master Academic Studies
16.	GIAU02	Position Based Services	(E20) Computing and Control Engineering, Master Academic Studies
17.	SDGI02	Selected topics in engineering geodesy	(GI0) Geodesy and Geomatics, Specialised Academic Studies
18.	SDGI06	Selected Chapters in Real Estate Cadastre	(GI0) Geodesy and Geomatics, Specialised Academic Studies
19.	SDGI10	Selected Chapters in Landscape Arrangement	(GI0) Geodesy and Geomatics, Specialised Academic Studies
20.	SDGI12	Selected topics in Inegrated Systems of Surveying	(GI0) Geodesy and Geomatics, Specialised Academic Studies
21.	SDGI19	Utility Information Systems and their Application	(GI0) Geodesy and Geomatics, Specialised Academic Studies
22.	SDGI20	Selected topics in Geodynamics	(GI0) Geodesy and Geomatics, Specialised Academic Studies
23.	SDGI5D	Selected Chapters in the Mass Appraisal of Real Estate	(GI0) Geodesy and Geomatics, Specialised Academic Studies
24.	SDGI6A	Selected Chapters in Appraisal	(GI0) Geodesy and Geomatics, Specialised Academic Studies
25.	DGI002	Selected Chapters in Engineering Geodesy	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
26.	DGI006	Selected Chapters in Real Estate Cadastre	(GI0) Geodesy and Geomatics, Doctoral Academic Studies

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

	ID	Course name	Study programme name, study type
27.	DGI009	Selected Chapters in GNSS Systems	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
28.	DGI010	Selected Chapters in Landscape Arrangement	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
29.	DGI019	Selected Chapters in Municipal Information Systems	(GI0) Geodesy and Geomatics, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Bulatović V., Sušić Z., Ninkov T.: Estimate of the ASTER-GDEM regional systematic errors and their removal, INT J REMOTE SENS, 2012, Vol. 33, No 18, pp. 5915-5926, ISSN 0143-1161
2.	Bulatović V., Ninkov T., Malenković V., Vulić M.: Contemporary Methods of Determining Energy Losses in Structures, TTEM. Tehnics tehnologies education management, 2012, Vol. 7, No 2, pp. 687-692, ISSN 1840-1503
3.	Bulatović V., Sušić Z., Ninkov T.: Open Geospatial Consortium Web Services in Complex Distribution Systems, Geodetski list, 2010, Vol. 64, No 1, pp. 13-29, ISSN 0016-710X
4.	*****Autori: T. Ninkov, V. Bulatović, Z. Sušić Naziv: Primena laserskog skeniranja kod projektovanja linijskih struktura i objekata Naziv skupa: GNP 2008
5.	*****Autori: Ninkov T., Bulatović, V. Naziv: Neke praktične primene AGROS-a Naziv skupa: Konferencija o uvođenju novog geodetskog referentnog sistema
6.	*****Autori: Ninkov T., Bulatović, V. Naziv: Primena naprednih tehnologija u projektima čišćenja reke Dunav od neeksplodiranih ubojitih sredstava na području Novog Sada Naziv skupa: GNP 2006
7.	*****Autori: Ninkov T., Bulatović, V. Naziv: Savremene metode izrade digitalnih topografskih podloga Naziv skupa: GNP 2006
8.	*****Autori: Benka P., Bulatović, V. Naziv: GIS in irrigation system menagment Naziv skupa: VIIth International symposium intedisciplinary regional research
9.	Benka P., Bulatović V.: Geographic Information System in Irrigation System Management, 7. ISIRR 2003, Hunedoara, 1 Januar, 2010, pp. 614-619
10.	*****Autori: Z. Sušić, D. Vasić, V. Bulatović, T. Ninkov Naziv: Geodetski monitoring građevinskih objekata korišćenjem konvencionalnih i savremenih tehnologija Naziv skupa: GNP 2008

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:	Bunčić M. Sonja
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	-
Scientific or art field:	Production Systems, Organization and Management

Academic carieer	Year	Institution	Field
Academic title election:	2008	Faculty of Technical Sciences - Novi Sad	Production Systems, Organization and Management
PhD thesis	2002	Faculty of Law - Novi Sad	Legal Science
Magister thesis	1999	Faculty of Law - Novi Sad	Legal Science
Bachelor's thesis	1984	Faculty of Law - Novi Sad	Legal Science

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

	ID	Course name	Study programme name, study type
1.	GI021	Structure Value Assessment	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
2.	GI405	Law and Legislation in Geodetic Profession	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
3.	IM1009	Business Law	(I20) Engineering Management, Undergraduate Academic Studies
4.	MBA307	European and international business and trade law	(IB0) Engineering Management - MBA, Specialised Professional Studies
5.	MBA521	The European Union-development process	(I20) Engineering Management, Specialised Professional Studies (IB0) Engineering Management - MBA, Specialised Professional Studies
6.	MBA523	European law/International law	(I20) Engineering Management, Specialised Professional Studies (IB0) Engineering Management - MBA, Specialised Professional Studies
7.	IM2121	Corporate governance	(I20) Engineering Management, Master Academic Studies
8.	IMDS82	Industrial eco-marketing management	(I22) Engineering Management, Specialised Academic Studies
9.	SDGI3D	Selected topics in real estate law	(GI0) Geodesy and Geomatics, Specialised Academic Studies
10.	IMDR82	Industrial eco-marketing management	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Pravna priroda akcije
2.	Berzansko pravo
3.	Pravni položaj banke
4.	Buncic S., Filipovic M.:The future of international financial bussiness: Global regulatory framework, African Journal of Business Managment Vol 5 (9) , 4 May 2011, str 3749-3756
5.	Bunčić S:. G-20 od Pitsburga do Toronta put ka novoj finansijskoj regulativi, časopis Srpska politička misao 3/2010, str 271-288
6.	Bunčić S.:Dvadeset godina procesa privatizacije u zemljma na prostoru bivše Jugosslavije modeli i rezultati., Srpska politička misao , 2/2012 str. 201-222
7.	Bunčić S.:Lisabonski ugovor i EMU, Pravni život,Beograd,14/2008,s.127-137
8.	Bunčić S.: Zaštita manjiskih akcionara-da li novi Zakon o privrednim društvima donosi napredak? ,Pravni život 11/2011, str,137-153
9.	Bunčić S.:Pravni pristup određenju opcijskog posla , Pravni život 14/2009, s. 315-327
10.	Bunčić : Određenje pojma manjinski akcionari i njihova klasifikacija, Pravo i privreda,4-6/2011, str151-162

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 :	1

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:	Čongradac D. Velimir
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	15.06.1998
Scientific or art field:	Automatic Control and System Engineering

Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
PhD thesis	2009	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Magister thesis	2000	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.	AU43	Fundamentals of Biomedical Engineering	(BM0) Biomedical Engineering, Undergraduate Academic Studies (E20) Computing and Control Engineering, Undergraduate Academic Studies
2.	AU50	Process Control by Computer	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
3.	GI005	Intelligent Control Systems	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	Z410A	Geospatial technologies and systems	(Z20) Environmental Engineering, Undergraduate Academic Studies
5.	Z410	Geoinformacione tehnologije i sistemi(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
6.	BMI112	Biomedical engineering in sport physiology	(BM0) Biomedical Engineering, Undergraduate Academic Studies
7.	BMI113	Neuroengineering	(BM0) Biomedical Engineering, Undergraduate Academic Studies
8.	BMI120	Equipment and systems for helping the elderly, ill and disabled	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	BMI124	System Modeling and Simulation	(BM0) Biomedical Engineering, Undergraduate Academic Studies
10.	BMI125	Biological Control Systems	(BM0) Biomedical Engineering, Undergraduate Academic Studies
11.	E2311	Automation in smart office-residential buildings	(E20) Computing and Control Engineering, Undergraduate Academic Studies
12.	EMSAU 1	Automatic Control Systems in Electronics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
13.	SEAU01	Nonlinear programming and evolutionary computations	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
14.	SEAU03	Real-time control algorithms	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
15.	SEAU04	Software of BMS	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
16.	SEAU06	Software of Process Computers	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
17.	ZC037	Automation applied in the industry and buildings	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
18.	AU514	Totally Integrated Automatic Control Systems	(E20) Computing and Control Engineering, Master Academic Studies
19.	S054	Computer Modelling and Simulation	(S01) Postal Traffic and Telecommunications, Master Academic Studies

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

	ID	Course name	Study programme name, study type
20.	SEAM01	Intelligent Control Systems	(SE0) Software Engineering and Information Technologies, Master Academic Studies
21.	SEAM02	Adaptive and advanced control	(SE0) Software Engineering and Information Technologies, Master Academic Studies
22.	SEAM03	Software Algorithms in Supervisory Control and Data Acquisition Systems	(SE0) Software Engineering and Information Technologies, Master Academic Studies
23.	SEAM05	Dynamic Programming, combinatorial and network optimization	(SE0) Software Engineering and Information Technologies, Master Academic Studies
24.	DAU017	Selected Topics from Totally Integrated Automatic Control Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies
25.	DAU018	Selected Chapters in Distributed Control Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Čongradac V., Kulić F.: Recognition of the importance of using artificial neural networks and genetic algorithms to optimize chiller operation, Energy and Buildings, 2012, Vol. 47, pp. 651-658, ISSN 0378-7788
2.	Čongradac V., Jorgovanović N., Stanišić D.: Assessing the energy consumption for heating and cooling in hospitals, Energy and Buildings, 2012, Vol. 48, pp. 146-154, ISSN 0378-7788
3.	Čongradac V., Bojanić D., Čapko D.: Algorithm for blinds control based on the optimization of blind tilt angle using a genetic algorithm and fuzzy logic, Solar Energy, 2012, Vol. 86, No 9, pp. 2762-2770, ISSN 0038-092X
4.	Čongradac V., Kulić F.: HVAC system optimization with CO2 concentration control using genetic algorithms, Energy and Buildings, 2009, ISSN 0378-7788
5.	Čongradac V.: Control of the lighting system using a genetic algorithm, Thermal Science, 2012, Vol. 16, No 1, pp. 237-250, ISSN 0354-9836, UDK: 621
6.	Čongradac V.: Business process management in sustainable property/asset management by using the totalobserver, Thermal Science, 2012, Vol. 16, No 1, pp. 269-279, ISSN 0354-9836, UDK: 621

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

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

Science, arts and professional qualifications

Name and last name:	Ćosić P. Ilija
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	22.12.1972
Scientific or art field:	Production Systems, Organization and Management

Academic carieer	Year	Institution	Field
Academic title election:	1993	Faculty of Technical Sciences - Novi Sad	Production Systems, Organization and Management
PhD thesis	1983	Faculty of Technical Sciences - Novi Sad	Production Systems, Organization and Management
Magister thesis	1979	Faculty of Technical Sciences - Novi Sad	Production Systems, Organization and Management
Bachelor's thesis	1972	Faculty of Mechanical Engineering - Novi Sad	Mechanical Engineering

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

	ID	Course name	Study programme name, study type
1.	M316	Production Systems	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
2.	II1017	Production System Design	(I10) Industrial Engineering, Undergraduate Academic Studies
3.	II1053	Production Systems	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
4.	IM1027	Production systems	(I20) Engineering Management, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
5.	IM1039	Fundamentals of Operations management	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
6.	IM1116	Work Study and Ergonomics	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
7.	ZR401A	Science on Work	(Z01) Safety at Work, Undergraduate Academic Studies
8.	IMDR0S	Selected chapters in enterprise's design, organization and control	(I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies
9.	IMDSPI	Selected Chapters in Design for Excellence	(I12) Industrial Engineering, Specialised Academic Studies
10.	IS001	Effective management	(I20) Engineering Management, Specialised Professional Studies (IB0) Engineering Management - MBA, Specialised Professional Studies
11.	ZR502	Occupational Risk Assessment	(Z01) Safety at Work, Master Academic Studies
12.	IIDS5	Selected chapters in enterprise's design, organization and control	(I12) Industrial Engineering, Specialised Academic Studies
13.	IIDS9	Effective Production and Service Systems	(I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies

Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES — Geodesy and Geomatics

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

	ID	Course name	Study programme name, study type
14.	IM2101	Intelligent Enterprising and Effective Management	(M50) Energy Management, Master Academic Studies (I20) Engineering Management, Master Academic Studies
15.	IM2102	Manufacturing strategy (KAIZEN, LEAN, KANBAN, EFPS)	(I10) Industrial Engineering, Master Academic Studies (M50) Energy Management, Master Academic Studies (I20) Engineering Management, Master Academic Studies
16.	IM2119	Layout and location of the enterprise	(I20) Engineering Management, Master Academic Studies
17.	IM2124	Production and Service Systems	(H00) Mechatronics, Master Academic Studies (M50) Energy Management, Master Academic Studies
18.	IMDR0	Science of Industrial Engineering and Management	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
19.	IMDR31	Effective Production and Service Systems	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
20.	IMDR56	Traceability of Product Lifecycle	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
21.	IMDR57	Strategic Planning and Designing Procedures and Systems at the End of Product Lifecycle	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
22.	IMDRPI	Selected Chapters in Design for Excellence	(F00) Graphic Engineering and Design, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
23.	IMDR5	Selected chapters in enterprise's design, organization and control	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
24.	IMDR85	Effective technological and production structures	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
25.	ZRD27A	Operations management in the security and occupational safety	(Z01) Safety at Work, Doctoral Academic Studies
26.	ZRD28A	Selected topics in the science of occupational safety	(Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Simeunović N., Ćosić I., Radaković N., Lalić B.: The General Work Procedure Model for the Service Product, Beč, DAAAM International Scientific Book, 2009, str. 281-288, ISBN 987-3-901509-71-1, UDK: ISSN 1726-9687
2. Pečujlija M., Ćosić I., Ivanišević V.: A professor's moral thinking at the abstract level vs the professor's moral thinking in real life situation (consistency problem), Science and Engineering Ethics, 2011, Vol. 17, No 2, pp. 299-320, ISSN 1353-3452
3. Zelenović D., Ćosić I., Šormaz D., Šišarica Z.: An approach to the design of more effective production systems , International Journal of Production Research, 1987, Vol. 25, No 1, pp. 3-15, ISSN 0020-7543
4. Kirin S., Sedmak A., Grubić-Nešić L., Ćosić I.: Project risk management in complex petrochemical system, Hemijska industrija, 2012, pp. 52-52, ISSN 0354-7531, UDK: doi:10.2298/HEMIND110709052K
5. Tešić Z., Lalić D., Ćosić I., Mitrović V.: Integration of information for manufacturing shop control, Strojniski vestnik = Journal of Mechanical Engineering, 2010, Vol. 56, No 3, pp. 217-223, ISSN 0039-2480
6. Tekić Ž., Ćosić I., Katalinić B.: Innovations and Knowledge Creation Mechanisms, 22. DAAAM International Symposium, Vienna: DAAAM International, 23-26 Novembar, 2011, pp. 419-421, ISBN 978-3-901509-83-4
7. Tekić Ž., Ćosić I., Penezić N., Todorović V.: Origin and Characteristics of New Technology Based Firms in Serbia , 2. Business Development Conference BDC, Zenica: BSC Zenica, Ekonomski fakultet i CIP centar Univerziteta u Zenici, 13-14 Novembar, 2009, pp. 90-99, ISBN 1840 - 4006
8. Katić A., Anišić Z., Lalić D., Ćosić I.: Open Innovations as a Model for Increasing Competitiveness and Knowledge Transfer, 2. International Conference for Entrepreneurship, Innovation and Regional Development ICEIRD, Thessaloniki, 24-25 April, 2009
9. Ćosić I., Govedarica M., Živković B.: Developement of Object-Oriented Intelligent Database Model, 1. International Conference on Technical Informatics, Temišvar, 16-19 Novembar, 1994, pp. 60-65
10. Ćosić I., Grubić-Nešić L., Kirin S.: Istraživanje individualnih potencijala za donošenje odluka , Strategijski menadžment, 2006, pp. 62-65, ISSN 0354-8414

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

Quotation total :	96			
Total of SCI(SSCI) list papers :	15			
Current projects :	Domestic :	2	International :	2

Science, arts and professional qualifications

Name and last name:	Ćulibrk R. Dubravko
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.02.2001
Scientific or art field:	Information-Communication Systems

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Information-Communication Systems
PhD thesis	2006	Faculty of Technical Sciences - Novi Sad	Computer Engineering
Magister thesis	2003	Faculty of Technical Sciences - Novi Sad	Computer Engineering
Bachelor's thesis	2000	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.	GI100	Computer Practicum	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
2.	IGB340	Fundamentals of Engineering Animation	(F10) Engineering Animation, Undergraduate Academic Studies
3.	II1002	Computer Technologies	(I10) Industrial Engineering, Undergraduate Academic Studies
4.	II1024	Algorithms and Data Structures	(I10) Industrial Engineering, Undergraduate Academic Studies
5.	IM1010	Fundamentals of Information Technologies	(I20) Engineering Management, Undergraduate Academic Studies
6.	IM1038	Introduction to Business Intelligence Systems	(I20) Engineering Management, Undergraduate Academic Studies
7.	IM1517	Computer application development	(I20) Engineering Management, Undergraduate Academic Studies
8.	IM1522	Algorithms and Data Structures	(I20) Engineering Management, Undergraduate Academic Studies
9.	F402	Electronic Publishing	(F00) Graphic Engineering and Design, Master Academic Studies
10.	IMDS34	Raster and Image Processing Technologies in Engineering and Management	(I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies
11.	IMDS54	Computer Vision in Industrial Engineering and Management	(I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies
12.	IMDS55	Data Mining	(I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies
13.	MBA411	Business intelligence concepts	(I20) Engineering Management, Specialised Professional Studies (IB0) Engineering Management - MBA, Specialised Professional Studies
14.	MM004	Theory and Practice of Media Communication	(I20) Engineering Management, Specialised Professional Studies
15.	MUO004	Information Systems in Education	(I20) Engineering Management, Specialised Professional Studies
16.	I835	Data mining methods	(I10) Industrial Engineering, Master Academic Studies
17.	I913	Expert systems and tools for knowledge management	(I10) Industrial Engineering, Master Academic Studies
18.	IIDS8	Selected chapters from Information, management and communication systems	(GI0) Geodesy and Geomatics, Specialised Academic Studies (I12) Industrial Engineering, Specialised Academic Studies
19.	IM2519	Advanced Information Technology	(I20) Engineering Management, Master Academic Studies
20.	IMDS73	Selected chapters from Information management	(I22) Engineering Management, Specialised Academic Studies

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

	ID	Course name	Study programme name, study type
21.	IMDR34	Raster and Image Processing Technologies in Engineering and Management	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
22.	IMDR54	Computer Vision in Industrial Engineering and Management	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
23.	IMDR55	Data Research	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
24.	IMDR73	Selected chapters from Information management	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
25.	IMDR81	Selected chapters from Information, management and communication systems	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	D. Culibrk, O. Marques, D. Socek, H. Kalva and B. Furht, "Neural Network Approach to Background Modeling for Video Object Segmentation", IEEE Trans. on Neural Networks, September 2007.
2.	D. Socek, D. Culibrk, O.F. Marques, H. Kalva and B. Furht, “A Hybrid Color-Based Foreground Object Detection Method for Automated Marine Surveillance”, in Proc. Advanced Concepts for Intelligent Vision Systems (ACIVS 2005), Antwerp, Belgium, September 20-23, 2005
3.	Ćulibrk, D., Daniel Socek and Michal Sramka: Cryptanalysis of a Symmetric Probabilistic Encryption Scheme Based on Chaotic Attractors of Neural Networks, Tatra Mountains Mathematical Publications, 2007, Vol. 37, str. 75- 91
4.	"New approaches to encryption and steganography for digital videos", Daniel Socek, Hari Kalva, Spyros S. Magliveras, Oge Marques, Dubravko Culibrk and Borko Furht, Multimedia systems, vol. 13, No 3, pp.
5.	Daniel Socek, Spyros Magliveras, Dubravko Ćulibrk, Oge Marques, Hari Kalva, and Borko Furht: Digital Video Encryption Algorithms Based on Correlation-Preserving Permutations, EURASIP Journal on Information Security, 2007, ISSN 1687-4161. 5.
6.	Dubravko Ćulibrk, Borislav Antić, Vladimir Crnojević: Real-time Stable Texture Regions Extraction for Motion-based Object Segmentation, 20th British Machine Vision Conference, BMVC 2009, London, UK: British Machine Vision Association, 7.-10. September, 2009
7.	D. Culibrk, M. Mirkovic, V.Zlokolica, M. Pokric, V. crnojevic, D. Kukolj, “Salient Motion Features for Video Quality Assessment”, IEEE Trans. on Image Processing, Volume: 20 Issue:4, pp(s): 948 – 958, ISSN: 1057-7149, 2011.
8.	J. Radonić, D. Ćulibrk, M. Vojinović-Miloradov, B. Kukić, M. Turk-Sekulić, Prediction Of Gas-Particle Partitioning Of Pahs Based On M5' Model Trees, Thermal Science, No. 1, vol. 15, pp.105-114 , 2011.
9.	Mladen Pečujlija, Dubravko Ćulibrk, Why We Believe The Computer When It Lies, Computers in Human Behavior, Volume 28, Issue 1, January 2012, Pages 143–152.
10.	D. Ćulibrk, M. Mancas, V. Crnojevic, 2012, "Dynamic Texture Recognition Based on Compression Artifacts", in Towards Advanced Data Analysis by Combining Soft Computing and Statistics in Fuzziness and Soft Computing Volume 285, 2013, pp 253-266.

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

Quotation total :	0			
Total of SCI(SSCI) list papers :	11			
Current projects :	Domestic :	2	International :	4

Science, arts and professional qualifications

Name and last name:	Đapo R. Almin
Academic title:	Guest Professor
Name of the institution where the teacher works full time and starting date:	-
Scientific or art field:	Geodetic Engineering

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Geodesy in Zagreb - Zagreb	Geodetic Engineering
PhD thesis	2009	Faculty of Geodesy in Zagreb - Zagreb	Geodetic Engineering
Magister thesis	2001	Faculty of Geodesy in Zagreb - Zagreb	Geodetic Engineering
Bachelor's thesis	1993	Faculty of Geodesy in Zagreb - Zagreb	Geodetic Engineering

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

	ID	Course name	Study programme name, study type
1.	GI307A	Engineering Geodesy	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
2.	Z410A	Geospatial technologies and systems	(Z20) Environmental Engineering, Undergraduate Academic Studies
3.	GI207	GNSS basics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	GI209	Photogrammetry	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
5.	SDGI11	Selected topics in deformation measurements and analysis	(GI0) Geodesy and Geomatics, Specialised Academic Studies
6.	SDGI14	Selected topics in geodetic networks and their optimization	(GI0) Geodesy and Geomatics, Specialised Academic Studies
7.	SDGI20	Selected topics in Geodynamics	(GI0) Geodesy and Geomatics, Specialised Academic Studies
8.	DGI014	Selected Chapters in Geodesic Networks and Their Optimization	(GI0) Geodesy and Geomatics, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Pribičević, Boško; Medak, Damir; Prelogović, Eduard; Đapo, Almin. Geodinamika prostora Grada Zagreba .Zagreb : Geodetski fakultet, 2007
2.	Medved, Ivan; Medak, Damir; Pribičević, Boško; Đapo, Almin. Multiple criteria analysis of spatial information for a preliminary assessment of the landslide susceptibility for environmental protection in the Zagreb region based on geodynamic network. // Reports on geodesy. 2 (2011) , 91; 116-122 (članak, znanstveni)
3.	Pribičević, Boško; Đapo, Almin; Medak, Damir. Geodetsko-geološka istraživanja na širem zagrebačkom području oslonjena na Geodinamičku mrežu Grada Zagreba. // Geodetski list : glasilo Hrvatskoga geodetskog društva. 65(88) (2011) , 1; 1-19 (članak, znanstveni)
4.	Đapo, Almin; Pribičević, Boško; Medak, Damir; Prelogović, Eduard. Correlation between Geodetic and Geological Models in the Geodynamic Network of the City Of Zagreb. // Reports on geodesy. 86 (2009) , 1; 115-122 (članak, znanstveni)
5.	Novaković, Gorana; Đapo, Almin; Mahović, Hrvoje. Razvoj i primjena pseudolita za pozicioniranje i navigaciju. // Geodetski list. 63(86) (2009) , 3; 215-241 (pregledni rad, znanstveni)
6.	Babić, Luka; Pribičević, Boško; Đapo, Almin. A Time Section Review of Development of the City of Karlovac through 3D Modeling of Historical Maps // .2012. (predavanje,međunarodna recenzija,objavljeni rad,znanstveni)
7.	Đapo, Almin; Pribičević, Boško; Kordić, Branko. 3D Scanning and 3D Documentation of Railroad Tunnels in Croatia // Professional Practice and Education in Geodesy and Related Fields / Aleksic, Ivan R. (ur.). Beograd : University of Belgrade - Faculty of Civil Engineering, 2011. 129-136 (pozvano predavanje,međunarodna recenzija,objavljeni rad,znanstveni)
8.	Đapo, Almin; Babić, Luka; Pribičević, Boško. Application of a 3D terrestrial laser scanner in a survey of a railway bridge "Sava Jakuševac" // Proceedings of the 5th International Conference on Engineering Surveying INGEO 2011. / Kopáčik, Alojz ; Kyrinovič, Peter ; Roić, Miodrag (ur.). Brijuni, 2011. 57-64 (predavanje,međunarodna recenzija,objavljeni rad,znanstveni)
9.	Kordić, Branko; Đapo, Almin; Pribičević, Boško. Multibeam and sidescan sonar application for determining the position and shape of the remains of Hadrian bridge on Drava river // Proceedings of the XXIV FIG International Congress – Facing the Challenges – Building the Capacity / Prof. Dr.-Ing. Rudolf Staiger (ur.). Sydney, Australia : International Federation of Surveyors, 2010. (predavanje,međunarodna recenzija,objavljeni rad,znanstveni)

Representative refferences (minimum 5, not more than 10)	
10.	Vela, Ela; Babić, Luka; Đapo, Almin; Kordić, Branko; Pribičević, Boško; Medak, Damir. Terrestrial Laser Scanning for the Digital Preservation of a Croatian Historical Village “Dobranje” // Proceedings of the XXIV FIG International Congress – Facing the Challenges – Building the Capacity / Prof. Dr.-Ing. Rudolf Staiger (ur.). Sydney, Australia : International Federation of Surveyors, 2010. (predavanje,međunarodna recenzija,objavljeni rad,znanstveni).

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:	Đogo B. Mitar
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	05.12.1986
Scientific or art field:	Geotechnics

Academic carieer	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Geotechnics
PhD thesis	1996	Faculty of Technical Sciences - Novi Sad	Geotechnics
Magister thesis	1992	Faculty of Technical Sciences - Novi Sad	Geotechnics
Bachelor's thesis	1986	Faculty of Technical Sciences - Novi Sad	Civil Engineering

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

	ID	Course name	Study programme name, study type
1.	A309	Soil Mechanics and Foundations	(A00) Architecture, Undergraduate Academic Studies
2.	GG24	Soil Mechanics	(G00) Civil Engineering, Undergraduate Academic Studies
3.	GG32	Foundation	(G00) Civil Engineering, Undergraduate Academic Studies
4.	GI505	Advanced Techniques in Geodetic Design and Monitoring	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
5.	GP404	Geotechnics	(G00) Civil Engineering, Undergraduate Academic Studies
6.	URZP18	Stability of terrain	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
7.	GG37	Basics of design in civil engineering structures	(G00) Civil Engineering, Undergraduate Academic Studies
8.	GG506	Professional Practice	(G00) Civil Engineering, Master Academic Studies
9.	GP504	Tunnels	(G00) Civil Engineering, Master Academic Studies
10.	MPK017	Fundamentals of Geosciences	(MPK) Inženjerstvo tretmana i zaštite voda - TEMPUS(uneti naziv na engledskom), Master Academic Studies
11.	GD002	Selected Chapters in Foundation	(G00) Civil Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Uplift test results of piles. 9 th Danube European Conference on Soil Mechanics and Found. Eng., pp.158-163, Budapest. Milovic, D., Djogo, M., (1990)
2.	Settlement of circular foundation of any rigidity. 10 th European Conference on Soil Mechanics and Found. Eng., pp. 497-500, Firenze. Milovic, D., Djogo, M., (1991)
3.	Stresses and settlements of circular foundation of any rigidity. 13 th Canadian congress of applied mechanics, pp. 257-258, Manitoba. Milovic, D., Djogo, M., (1991)
4.	Rectangular raft of any rigidity on the layer of limited thickness. XIVth International Conference on Soil Mechanics & Foundation Engineering, pp. 857-858, Milovic, D. Djogo, M. Hamburg., (1997)
5.	A pile loaded by horizontal force and moment – theoretical and field load test results. Proceedings of the 16 th International Conference on Soil Mechanics and Geotechnical Engineering, Vol. 4, pp. 2023-2026, Osaka. Milovic, D., Djogo, M., (2005)
6.	Greške u fundiranju. Monografija. Fakultet tehničkih nauka, str. 1-438, Novi Sad. Milović, D., Đogo, M., (2005)
7.	Đogo, M., Vasić, M., (2011): Landslide in the area of the bridge on the Danube in Novi Sad. Proceedings of the ICE - Geotechnical Engineering, Volume 164, Issue 1, pp. 3-10, Thomas Telford, London. ISSN: 1353-2618, E-ISSN: 1751-8563, DOI: 10.1680/geng.2011.164.1.3
8.	Đogo, M., Vasić, M., Ćosić, M., (2011): Engineering geological evaluation of the conditions for constructing a bridge and a tunnel in the zone of the old Petrovaradin Fortress. Bulletin of Engineering Geology & the Environment, Volume 70, Number 1, pp. 139-142, Springer, Berlin. ISSN: 1435-9529, E-ISSN: 1435-9537, DOI: 10.1007/s10064-010-0292-0
9.	Milović, D., Đogo, M., (2009): Analysis of piled raft foundation. Materials and structures 3-4. pp. 3-20, Beograd.
10.	Milović, D., Đogo, M., (2009): Problemi interakcije tlo - temelj - konstrukcija. Monografija. SANU - Ogranak u Novom Sadu, str. 1-428, Novi Sad.

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

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

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

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:	Galić P. Zdravko
Academic title:	Guest Professor
Name of the institution where the teacher works full time and starting date:	-
Scientific or art field:	Electrical and Computer Engineering

Academic carieer	Year	Institution	Field
Academic title election:	2011	Fakultet elektrotehnike i računarstva - Zagreb - Zagreb	Electrical and Computer Engineering
PhD thesis	1991	Faculty of Civil Engineering - Sarajevo	Geodetic Engineering
Magister thesis	1988	School of Electrical Engineering - Beograd	Applied Computer Science and Informatics
Bachelor's thesis	1979	Faculty of Civil Engineering - Sarajevo	Geodetic Engineering

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

	ID	Course name	Study programme name, study type
1.	GI003	Geospatial Data Infrastructure	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
2.	GI211	Geoinformatics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
3.	GI408A	Geospatial Databases	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	GI536	Spatial and temporal databases	(GI0) Geodesy and Geomatics, Master Academic Studies
5.	GIAU04	Geospatial data visualization	(E20) Computing and Control Engineering, Master Academic Studies
6.	SDGI01	Selected topics in geoinformation systems	(GI0) Geodesy and Geomatics, Specialised Academic Studies
7.	SDGI1C	Selected topics in geospatial data visualization	(GI0) Geodesy and Geomatics, Specialised Academic Studies
8.	SDGI3C	Selected topics in Geoportals	(GI0) Geodesy and Geomatics, Specialised Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Geoprostorne baze podataka
2.	An Interoperable Cartographic Database
3.	Temporal GIS for Cadastre
4.	Razvoj GIS-orijentiranih aplikacija u 4GL programskom okolišu - objektni pristup
5.	Distribuiranje geoprostornih informacija Internet tehnologijom
6.	Object-Oriented Geo-Information Processing in Modulex
7.	Advanced Database Programming Languages: A Geo-Information Processing Prospective
8.	Spatio-Temporal Data Streams: An Approach to Managing Moving Objects
9.	Data Types and Operations for Spatio-Tempora Data Streams
10.	OCEANUS: A Spatio-Temporal Data Stream System Prototype

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

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

Science, arts and professional qualifications

Name and last name:	Gilezan K. Silvia
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.04.1984
Scientific or art field:	Mathematics

Academic carieer	Year	Institution	Field
Academic title election:	2005	Faculty of Technical Sciences - Novi Sad	Mathematics
PhD thesis	1993	Faculty of Sciences - Novi Sad	Mathematical Sciences
Magister thesis	1988	Faculty of Mathematics - Beograd	Mathematical Sciences
Bachelor's thesis	1981	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.	GH404	Mathematical Statistics	(G00) Civil Engineering, Master Academic Studies (G00) Civil Engineering, Undergraduate Academic Studies
2.	GI303B	Probability and Mathematical Statistics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
3.	IAM003	Formal Mathematical Models	(F10) Engineering Animation, Undergraduate Academic Studies
4.	S011	Mathematics 1	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
5.	Z203	Statistical Methods	(Z01) Safety at Work, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
6.	IM1012	Probability and Statistics	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
7.	0M506	Semantics of Programming Languages	(OM1) Mathematics in Engineering, Master Academic Studies
8.	0M507	Logic in Computer Science	(OM1) Mathematics in Engineering, Master Academic Studies
9.	0M513	Introduction to Functional Programming Languages	(OM1) Mathematics in Engineering, Master Academic Studies
10.	0ML506	Semantics of programming languages	(OM1) Mathematics in Engineering, Master Academic Studies
11.	0ML507	Logic in computer science	(OM1) Mathematics in Engineering, Master Academic Studies
12.	0ML513	Introduction to Functional Programming Languages	(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.	GH404	Mathematical Statistics	(G00) Civil Engineering, Master Academic Studies (G00) Civil Engineering, Undergraduate Academic Studies
15.	SD0M06	Logic in Computer Science	(GI0) Geodesy and Geomatics, Specialised Academic Studies

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

	ID	Course name	Study programme name, study type
16.	MPK001	Statistical and Numerical Methods	(MPK) Inženjerstvo tretmana i zaštite voda - TEMPUS(uneti naziv na engledskom), Master Academic Studies
17.	D0M05	Semantics of Programming Languages	(OM1) Mathematics in Engineering, Doctoral Academic Studies
18.	D0M06	Logic in Computer Science	(OM1) Mathematics in Engineering, Doctoral Academic Studies
19.	D0M11	Models of Computation	(OM1) Mathematics in Engineering, Doctoral Academic Studies
20.	D0M12	Introduction to Functional Programming Languages	(OM1) Mathematics in Engineering, Doctoral Academic Studies
21.	D0M13	Theory of Mobile Processes	(OM1) Mathematics in Engineering, Doctoral Academic Studies
22.	D0M14	Process Algebra	(OM1) Mathematics in Engineering, Doctoral Academic Studies
23.	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
24.	AID05	Theory of Mobile Processes	(F20) Engineering Animation, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	"Inhabitation in lambda calculus with intersection and union types", Journal of Logic and Computation 6 (1993) 671-685, Oxford University Press
2.	"Characterizing strong normalization in the Curien-Herbelin symmetric lambda calculus: extending the Coppo-Dezani heritage, (sa D.Dougherty, P.Lescanne) Theoretical Computer Science 2007
3.	"Separating Points by Parallel Hyperplanes " (sa J. Pantovic, J. Zunic), IEEE Transactions of Neural Networks 18(5) (2007) 1356-1363
4.	"Lambda terms for natural deduction, sequent calculus and cut elimination" (sa H.P.Barendregt), Journal of Functional Programming, 10 (2000) 121-134.
5.	"Confluence of untyped lambda calculus via simple types" (with V.Kuncak), ICTCS"01, Lecture Notes in Computer Science 2201, 38-49.
6.	"Full intersection types and topologies in lambda calculus", Journal of Computer and System Sciences, 62 (2001) 1-14.
7.	"Behavioural inverse limit lambda models" (sa M. Dezani-Ciancaglini, S. Likavec), Theoretical Computer Science Vol 316/1-3 (2004) 49-74.
8.	"Strong normalization of the classical sequent calculus" (sa D. Dougherty, P. Lescanne, S.Likavec), Lecture Notes in Computer Science 3835 (2005) 169-183.
9.	"Security types for dynamic web data" (sa M.Dezani-Ciancaglini, J. Pantovic), Trustworthy Global Computing, TGC"06, Lecture Notes in Computer Science 4661 (2007) 263-280.
10.	Zbirka rešenih zadataka iz statistike (sa Z.Lužanin, Z.Ovcin, Lj.Nedović, T.Grbić, B.Mihailović) 2005

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

Quotation total :	325

Total of SCI(SSCI) list papers :	17			
Current projects :	Domestic :	2	International :	4

Science, arts and professional qualifications

Name and last name:	Govedarica J. Miro
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	22.02.1994
Scientific or art field:	Geodesy and Geomatics Engineering

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Geodesy and Geomatics Engineering
PhD thesis	2001	Faculty of Technical Sciences - Novi Sad	Geoinformatics
Magister thesis	1998	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Bachelor's thesis	1987	Faculty of Civil Engineering - Sarajevo	Geodesy

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.	E241	Geospatial Technologies	(E20) Computing and Control Engineering, Undergraduate Academic Studies
3.	F114	Graphic applications	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
4.	GI003	Geospatial Data Infrastructure	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
5.	GI020	Laser Scanning of Terrain and Objects	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
6.	GI025B	Geodetic Metrology	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
7.	GI211	Geoinformatics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
8.	GI408A	Geospatial Databases	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
9.	URZP44	Application of geoinformation technology in risk management	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
10.	Z410A	Geospatial technologies and systems	(Z20) Environmental Engineering, Undergraduate Academic Studies
11.	Z410	Geoinformacione tehnologije i sistemi(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
12.	BM119A	The application of geoinformation technologies and systems in medicine	(BM0) Biomedical Engineering, Undergraduate Academic Studies
13.	GG99	Geospatial technologies - basics	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
14.	GI207	GNSS basics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
15.	GI209	Photogrammetry	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
16.	GI406A	Fundamentals of Remote Sensing and Image Processing	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
17.	ZC028	Geospatial technologies and systems	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
18.	GI501	Geoportals and Geospatial Services	(GI0) Geodesy and Geomatics, Master Academic Studies
19.	GI502	Location Based Services	(GI0) Geodesy and Geomatics, Master Academic Studies
20.	GI504	Advanced Techniques of Laser Scanning	(GI0) Geodesy and Geomatics, Master Academic Studies
21.	GI517	Digital Photogrammetry	(GI0) Geodesy and Geomatics, Master Academic Studies
22.	GI518	Geodesy in City Planning	(GI0) Geodesy and Geomatics, Master Academic Studies
23.	GIAU05	Geoportals and Geoservices	(E20) Computing and Control 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
24.	GI531	Application of GNSS systems	(GI0) Geodesy and Geomatics, Master Academic Studies
25.	GI532	Advanced Remote Sensing Technologies	(GI0) Geodesy and Geomatics, Master Academic Studies
26.	GI534	Service oriented architecture in GIS	(GI0) Geodesy and Geomatics, Master Academic Studies
27.	GI536	Spatial and temporal databases	(GI0) Geodesy and Geomatics, Master Academic Studies
28.	GI540	Valuation of real estate	(GI0) Geodesy and Geomatics, Master Academic Studies
29.	GI700	Geospatial data visualization	(GI0) Geodesy and Geomatics, Master Academic Studies
30.	GIAU02	Position Based Services	(E20) Computing and Control Engineering, Master Academic Studies
31.	GIAU03	Remote Sensing and Computer Image Processing	(E20) Computing and Control Engineering, Master Academic Studies
32.	GIAU04	Geospatial data visualization	(E20) Computing and Control Engineering, Master Academic Studies
33.	SDGI01	Selected topics in geoinformation systems	(GI0) Geodesy and Geomatics, Specialised Academic Studies
34.	SDGI06	Selected Chapters in Real Estate Cadastre	(GI0) Geodesy and Geomatics, Specialised Academic Studies
35.	SDGI08	Selected topics in laser scanning	(GI0) Geodesy and Geomatics, Specialised Academic Studies
36.	SDGI10	Selected Chapters in Landscape Arrangement	(GI0) Geodesy and Geomatics, Specialised Academic Studies
37.	SDGI13	Selected topics in spatial data infrastructure	(GI0) Geodesy and Geomatics, Specialised Academic Studies
38.	SDGI1C	Selected topics in geospatial data visualization	(GI0) Geodesy and Geomatics, Specialised Academic Studies
39.	SDGI1F	Selected topics in photogrammetry	(GI0) Geodesy and Geomatics, Specialised Academic Studies
40.	SDGI3C	Selected topics in Geoportals	(GI0) Geodesy and Geomatics, Specialised Academic Studies
41.	SDGI5D	Selected Chapters in the Mass Appraisal of Real Estate	(GI0) Geodesy and Geomatics, Specialised Academic Studies
42.	SDGI5F	Basic topics in remote sensing and image processing	(GI0) Geodesy and Geomatics, Specialised Academic Studies
43.	SDGI6A	Selected Chapters in Appraisal	(GI0) Geodesy and Geomatics, Specialised Academic Studies
44.	DAU011	Selected Chapters in Geographic Information Systems and Technologies	(E20) Computing and Control Engineering, Doctoral Academic Studies
45.	DGI001	Selected Chapters in Geoinformation Systems	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
46.	DGI003	Selected Chapters in Photogrammetry and Remote Sensing	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
47.	DGI006	Selected Chapters in Real Estate Cadastre	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
48.	DGI008	Selected Chapters in Laser Scanning	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
49.	DGI009	Selected Chapters in GNSS Systems	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
50.	DGI010	Selected Chapters in Landscape Arrangement	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
51.	DGI013	Selected Chapters in Spatial Data Infrastructure and Standardization	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
52.	DGI019	Selected Chapters in Municipal Information Systems	(GI0) Geodesy and Geomatics, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Ristić, A., Petrovački, D., Govedarica, M.: A New Method to Simultaneously Estimate the Radius of a Cylindrical Object and the Wave Propagation Velocity from GPR Data, Computers & Geosciences, 2009, Vol. 35, Broj 8, str. 1620-1630, ISSN 0098-3004
2.	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.
3.	Govedarica Miro, Borisov Mirko, THE ANALYSIS OF DATA QUALITY OF TOPOGRAPHIC MAPS, JOURNAL GEODETSKI VESTNIK (IF 2010 0.215) ISSN 0351-0271

Representative refferences (minimum 5, not more than 10)	
4.	Miro Govedarica, Dušan Petrovački, Dubravka Sladić, Aleksandra Ristić, Dušan Jovanović, Vladimir Pajić, Milan Vrtunski, Aleksandar Ristic ENVIRONMENTAL DATA IN SERBIAN SPATIAL DATA INFRASTRUCTURE - GEOPORTAL OF ECOLOGY Journal of Environmental Protection and Ecology JEPE 2011 (IF 2010 0.178)
5.	Govedarica Miro, Boskovic Dubravka, Petrovacki Dusan, Ninkov Tosa, Ristic Aleksandar Metadata Catalogues in Spatial Information Systems (Review) GEODETSKI LIST, (2010), vol. 64 br. 4, str. 313-334 (IF 2009 0.167)
6.	Jasmina Nedeljković Ostojić, Miro Govedarica, Toša Ninkov, Analysis of Structure Surveying Method by 3D Laser Scanners Geodetski list:glasilo Hrvatskoga geodetskog društva 65(88); 1; (2011) (IF 2010 0.038)
7.	Ristić A., Abolmasov B., Govedarica M., Petrovački D., Ristić A.: Shallow-landslide spatial structure interpretation using a multi-geophysical approach, Acta Geotechnica Slovenica, 2012, Vol. 9, No 1/2012, pp. 47-59, ISSN 1854-0171
8.	Tosa Ninkov, Miro Govedarica, Milan Trifkovic, One Method of Renewal of Stereographics Survey Data in Coka Municipality Geodetski list : glasilo Hrvatskoga geodetskog društva 66(89) (2012), 4;
9.	Luković I, Mogin P, Govedarica M, Ristić S, "The Structure of A Subschema and Its XML Specification", Journal of Information and Organizational Sciences (JIOS), Varaždin, Croatia, ISSN: 0351-1804, Vol. 26, No. 1-2, 2002, pp. 69-85..
10.	Govedarica M, Miladinović M: Informacioni sistema katastara nepokretnosti – Terrasoft, Geodetska služba, 2002, Vol. XXXI, No. 92, str. 16- 27, ISSN 0350-7971

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	8			
Total of SCI(SSCI) list papers :	6			
Current projects :	Domestic :	5	International :	1

Science, arts and professional qualifications

Name and last name:	Grbić P. Tatjana
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	15.12.1995
Scientific or art field:	Mathematics

Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Mathematics
PhD thesis	2008	Faculty of Sciences - Novi Sad	Mathematical Sciences
Magister thesis	1999	Faculty of Sciences - Novi Sad	Mathematical Sciences
Bachelor's thesis	1993	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.	GI303B	Probability and Mathematical Statistics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	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
5.	Z203	Statistical Methods	(Z01) Safety at Work, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
6.	BMI91	Mathematics 1	(BM0) Biomedical Engineering, Undergraduate Academic Studies
7.	BMI92	Mathematics 2	(BM0) Biomedical Engineering, Undergraduate Academic Studies
8.	IA001	Algebra	(F10) Engineering Animation, Undergraduate Academic Studies
9.	IA002	Mathematical Analysis	(F10) Engineering Animation, Undergraduate Academic Studies
10.	P216	Numerical Analysis	(P00) Production Engineering, Undergraduate Academic Studies
11.	S01361	Business decision making	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
12.	0M505	Stochastic Processes	(OM1) Mathematics in Engineering, Master Academic Studies
13.	0ML505	Stochastic Processes	(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
14.	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
15.	ZR503	Statistical Advanced Models	(Z01) Safety at Work, Master Academic Studies
16.	MPK001	Statistical and Numerical Methods	(MPK) Inženjerstvo tretmana i zaštite voda - TEMPUS(uneti naziv na engledskom), Master Academic Studies
17.	SDOM30	Probability, Statistics and Theory of Engineering Experiment	(Z00) Environmental Engineering, Specialised Academic Studies
18.	D0M01	Functional Analysis 1	(OM1) Mathematics in Engineering, Doctoral Academic Studies
19.	D0M07	Mathematical Foundations of Fuzzy Systems	(OM1) Mathematics in Engineering, Doctoral Academic Studies
20.	D0M19	Functional Analysis 2	(OM1) Mathematics in Engineering, Doctoral Academic Studies
21.	D0M21	Fuzzy Systems and Their Applications	(OM1) Mathematics in Engineering, Doctoral Academic Studies
22.	D0M50	Fuzzy Measures and Integrals	(OM1) Mathematics in Engineering, Doctoral Academic Studies
23.	D0M51	Large Deviations Principles	(OM1) Mathematics in Engineering, Doctoral Academic Studies
24.	D0M52	Random Sets	(OM1) Mathematics in Engineering, Doctoral Academic Studies
25.	D0M53	Statistical Processing of Fuzzy Data	(OM1) Mathematics in Engineering, Doctoral Academic Studies
26.	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
27.	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.	Ralević, N.M., Nedović, Lj., Grbić, T., :"The pseudo-linear superposition principle for nonlinear partial differential equations and representation of their solution by the pseudo-integral", Fuzzy sets and systems, 2005, No.155, 89-101

Representative refferences (minimum 5, not more than 10)

2.	Nedović, Lj., Ralević, N. M., Grbić, T.,: " Large deviation principle with generated pseudo measures", Fuzzy sets and systems, 2005, No. 105, 65-76
3.	Štajner-Papuga, I., Grbić, T., Dankova, M., "Pseud-Riemann-Stieltjes integral ", Information Sciences 179, 2009, 2923-2933
4.	M. Štrboja, T. Grbić, I. Štajner-Papuga, G. Grujić, S. Medić, Jensen and Chebyshev inequalities for pseudo-integrals of set-valued functions, FSS, doi:10.101016/j.fss.2012.07.011
5.	Grbić, T., Pap, E., : "Generalization Of Portamnteau theorem with respect to the pseudo-weak convergence of random closed sets", Theory of Probability and its Applications, 2009, 97-115
6.	T. Grbić, I. Štajner-Papuga, M. Štrboja, an approach to pseudo-integration of set-valued functions, Information Sciences 181 (2011), 2278-2292
7.	T. Grbić, S. Medić, I. Štajner-Papuga, T. Došenović, Inequalities of Jensen and Chebyshev type for interval-valued measures based on pseudo-integrals. In: Intelligent Systems: Models and Applications, E. Pap, Ed., Springer-Verlag, pp 23-41, DOI:10.1007/978-3-642-33959-2_2
8.	Štajner-Papuga, I., Grbić, T., Dankova, M., "Riemann-Stieltjes type integral based on generated pseudo-operations", NS J. Mathe., Vol. 36, No. 2, 111-124
9.	Nedović, Lj., Grbić, T., "The pseudo-probability", Journal of Electrical Engineering, 2002, Vol. 53, No. 12/s, 27-30
10.	Mihailović, B., Nedović, T., Grbić, T., "The induced Sugeno integral-based operator w.r.t. bi-fuzzy measures", Journal of Electrical engineering, Vol. 54, No. 12/s, 76-79

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

Quotation total :	17			
Total of SCI(SSCI) list papers :	6			
Current projects :	Domestic :	2	International :	0

Science, arts and professional qualifications

Name and last name:	Gučević P. Jelena
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Civil Engineering - Beograd
	13.02.1995
Scientific or art field:	Geodetic Engineering

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Civil Engineering - Beograd	Geodetic Engineering
PhD thesis	2005	Faculty of Civil Engineering - Beograd	Geodetic Engineering
Magister thesis	2001	Faculty of Civil Engineering - Beograd	Geodetic Engineering
Bachelor's thesis	1994	Faculty of Civil Engineering - Beograd	Geodetic Engineering

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

	ID	Course name	Study programme name, study type
1.	GI110	Geodesy 1	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
2.	GI202	Geodetic Measuring Techniques	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Optimum Resolution and Size of DTM during Modelling Topographic Effect /J. Gucevic, Ogrizovic V., Delcev S.,Vasilic V.,./ GEODETSKI LIST, (2010), vol. 64 br. 3, str. 177-192, ISSN: 0016-710X, ISI/Web of Science http://hrcak.srce.hr/index.php?show=clanak&id_clanak_jezik=94225
2.	Geodetic Method of the Fuel Tank Form Inspection/ S. Delčev, V. Ogrizović, J.Gučević/ Measurement, ISSN: 0263-2241, Imprint: ELSEVIER broj: MEAS-D-10-00415R2, DOI information: http://dx.doi.org/10.1016/j.measurement.2011.10.003
3.	FRAMEWORK PROGRAMME EU (FP7) – PROJECT OBSERVE FOR UPGRADING ENVIRONMENT IN BALKANS REGION/ Z. Gospavić, J. Gučević, B. Milovanović, V. Maraš/ Technics Technologies Education Management, Vol.7.No3. ISSN 1840 – 1503, p.1176-1181. Publisher Information: DRUNPP Sarajevo.
4.	Testing The Stability Of Gps Oscillators Within Serbian Permanent GPS Stations Network / Ogrizovic V., Delcev S.,Vasilic V., Gucevic J./, XIX IMEKO WORLD CONGRESS: FUNDAMENTAL AND APPLIED METROLOGY, PROCEEDINGS, ISBN 978-963-88410-0-1, p. 522-526, (2009.)
5.	Historical review of astro-geodetic observations in Serbia/ V.Ogrizović, S Delčev, V. Vasilić i J. Gučević,/ Proceedings of the meeting studying nature through centuries - 120th anniversary of Belgrade observatory, ISBN: 978-963-88410-0-1, vol. br. 85, str. 181-185. (2008.) ISI/Web of Science
6.	Analysis of vertical deflection differences obtained by astrogeodetic and gravimetric methods (Proceedings Paper)/ Odalovic Oleg R Gucevic Jelena P Ogrizovic Vukan R Aleksic Ivan R/ PROCEEDINGS OF THE XIII NATIONAL CONFERENCE OF YUGOSLAV ASTRONOMERS, (2003), vol. br. 75, str. 217-220, ISI/Web of Science
7.	Earth Observation activities for the environment in Serbia, / Zagorka Gospavić, Jelena Gučević, Vladislav Maraš, Branko Milovanović, Zoran Radmilović, Aleksandar Ćilerdžić/ South-Eastern European Journal of Earth Observation and Geomatics, Special-Thematic Issue Vo.1, p.111-120, 2012.
8.	Sistem obrazovanja geodetskog kadra u Republici Srbiji, Tehnika - Naše građevinarstvo, Gučević, J., Božić, B., Vasović, O., Todorović, M./ ISSN 0350-2619, vol. 63, br. 4, str. 11-18, (2009.) http://scindeks.nb.rs/article.aspx?artid=0350-26190904011G
9.	Combined geodetic networks in deformation detection / Delčev S., Ogrizović V., Gučević J/ INGEO 2011, 5th International Conference on Engineering Surveying, The conference is organized by FIG Commission 6, Department of Surveying, Faculty of Civil Engineering, Slovak University of Technology in Bratislava and Faculty of Geodesy, University of Zagreb, Brijuni, Croatia ISBN 978-953-6082-15-5, p 177-184.
10.	GEODETIC CLASS GPS RECEIVER AS A STANDARD FOR TIME-CRITICAL APPLICATIONS/ Vukan Ogrizović1, Jadranka Marendić, Snežana Renovica, Siniša Delčev, Jelena Gučević/ XX IMEKO World Congress, Metrology for Green Growth, September 9−14, 2012, Busan, Republic of Korea, ISBN 948-89-950000-5-2 95400, n.p.5

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:	Ivanišević V. Andrea
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.10.2005
Scientific or art field:	Production Systems, Organization and Management

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Production Systems, Organization and Management
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Production Systems, Organization and Management
Magister thesis	2008	Faculty of Technical Sciences - Novi Sad	Engineering Management
Bachelor's thesis	2005	Faculty of Economics - Subotica	Economic Science

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

	ID	Course name	Study programme name, study type
1.	F108	Sociology of Culture	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
2.	M317	Economy	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
3.	S002A	Economics	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
4.	II121	Principles of economics	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
5.	II1047	Analysis and calculation of production costs	(I10) Industrial Engineering, Undergraduate Academic Studies
6.	IM1004	Principles of economics	(I20) Engineering Management, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
7.	IM1014	Company Economics	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
8.	IM1047	Planning and enterprises performance analysis	(I20) Engineering Management, Undergraduate Academic Studies
9.	IM1422	Managing the cost of production	(I20) Engineering Management, Undergraduate Academic Studies
10.	IMDS88	Planning and implementing cost structure of the investment cycle	(I22) Engineering Management, Specialised Academic Studies
11.	Z513A	Economics and the environmental protection	(Z20) Environmental Engineering, Master Academic Studies
12.	Z513	Ekonomija i zaštita životne sredine(uneti naziv na engleskom)	(Z20) Environmental Engineering, Master Academic Studies
13.	IM2122	The rating company profitability	(I20) Engineering Management, Master Academic Studies
14.	IM2415	Investment Environment	(M50) Energy Management, Master Academic Studies (OM1) Mathematics in Engineering, Master Academic Studies (I20) Engineering Management, Master Academic Studies
15.	IM2417	Managing individual property	(I20) Engineering Management, Master Academic Studies
16.	IM2421	Manage the budget for development investment	(I20) Engineering Management, Master Academic Studies
17.	IM2425	Economics of the Firm	(M50) Energy Management, Master Academic Studies
18.	IMDR88	Planning and implementing cost structure of the investment cycle	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

Representative refferences (minimum 5, not more than 10)	
1.	Leković B., Ivanišević A., Marić B., Demko-Rihter J.: ASSESSMENT OF THE MOST SIGNIFICANT IMPACTS OF ENVIRONMENT ON THE CHANGES IN COMPANY COST STRUCTURE, Economic Research, 2013
2.	Milovanović Z.N., Knežević D., Ivanišević A., Jocanović M., Mitrović S.: ECONOMICAL EVALUATION OF THE PROJECT ON REPLACEMENT OF HEATING PLANT WITH CO-GENERATION HEAT AND POWER PLANT BY THE END OF 2030., Metalurgia International, 2013, No.4
3.	Marić B., Ivanišević A.: THE EFFECT OF PERMANENT WORKING CAPITAL ON THE QUALITY OF INVESTMENT PROJECTS, Metalurgia International, 2013
4.	Marić B., Ivanišević A., Mitrović S., Sreto A., Mihailo R.: Analysis of internal rate of return on investments: Dynamic and static approach, African Journal of Business Management, 2011, Vol. 5, No 8, pp. 3269-3273, ISSN 1993-8233
5.	Katić I, Ivanišević A., Penezić N., Lalić G., Tasić N.: EFFECTS OF FATIGUE TO OPERATIONAL PRODUCTIVITY WITH EMPLOYEES, Metalurgia International, 2013
6.	Mitrović S., Milisavljević S., Ćosić I., Leković B., Grubić-Nešić L., Ivanišević A.: Change in leadership styles in a transitional economy: A serbian case study, African Journal of Business Management, 2011, Vol. 5, No 9, pp. 3563-3569, ISSN 1993-8233
7.	Alpar Lošonc, Andrea Ivanišević, Slavica Mitrović „ Globalizacija-rešenja i dileme“ Monografija, Fakultet tehničkih nauka, Novic Sad, 2009. (ISBN 978-86-7892-207-7, COBISS.SR-ID 244134407. (1-263)
8.	Lošonc (Losoncz) A., Ivanišević A., Mitrović S.: Strukturalna kriza: forme i uzroci, Novi Sad, Fakultet tehnickih nauka, , 2012, str. 1-232, ISBN 978-86-7892-375-3, UDK: 268964871
9.	Razvoj sistema za planiranje praćenje i uskalđivanje ključnih segmenata poslovanja industrijskog distema u skaldu sa promena u okruženju, Fakultet tehničkih nauka Novi Sad, 2011
10.	Lošonc A., Radivojević R., Ivanišević A., Pejić S.: TOYOTISM AS A BASIS FOR CORPORATE CULTURE AND WORK ORGANIZATIONS, 1st International Scientific Conference on Lean Tehnologies, Novi Sad, Sertember 2012., pp. 100-106

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	0			
Total of SCI(SSCI) list papers :	6			
Current projects :	Domestic :	3	International :	0

Science, arts and professional qualifications

Name and last name:	Jeličić D. Zoran
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.11.1995
Scientific or art field:	Automatic Control and System Engineering

Academic carieer	Year	Institution	Field
Academic title election:	2008	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
PhD thesis	2003	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Magister thesis	1999	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Bachelor's thesis	1995	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.	AU41	Digital Control Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	E237	Optimization Methods	(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.	E237A	Optimization Methods	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	F404	Modelling, Simulation and Control	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
5.	GI005	Intelligent Control Systems	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
6.	H1405	Optimization Methods	(H00) Mechatronics, Undergraduate Academic Studies
7.	H302	Control Systems 2	(H00) Mechatronics, Undergraduate Academic Studies
8.	BM118A	Nonlinear programming and optimal control	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	BM130A	Digital control systems in bioengineering	(BM0) Biomedical Engineering, Undergraduate Academic Studies
10.	E2316	Real-time control systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies
11.	SEAU01	Nonlinear programming and evolutionary computations	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
12.	SEAU03	Real-time control algorithms	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
13.	AU511	Adaptive and Advanced Control	(E20) Computing and Control Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies
14.	AT03	Optimization and control techniques in architectural design	(AH0) Architecture, Master Academic Studies
15.	E2532	Automatic Control Systems Project Management	(E20) Computing and Control Engineering, Master Academic Studies
16.	DAU005	Selected Chapters in Optimization Methods	(M00) Mechanical Engineering, Doctoral Academic Studies
17.	DAU010	Selected Chapters in Nonlinear Control Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
18.	DGI016	Selected Chapters in Systems and Signals	(GI0) Geodesy and Geomatics, Doctoral Academic Studies

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

	ID	Course name	Study programme name, study type
19.	DAU005	Selected Chapters in Optimization Methods	(E20) Computing and Control Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Jeličić Z., Kulić F., Čongradac V., Kanović Ž., Živković S.,Praktikum Savremena merenja i instrumentacija iz programa Lifelong Learning, INDAS, 2003.
2.	Jeličić Zoran; Petrovački Nebojša; Optimality Conditions and a Solution Scheme For Fractional Optimal Control Problems, Structural and Multidisciplinary Optimization ISSN: 1615-147X ,Vol. 38, No. 6, Str. 571-581, Springer;
3.	Rapaić Milan; Pisano Alessandro; Jeličić Zoran; Usai Elio; Sliding mode control approaches to the robust regulation of linear multivariable fractional order dynamics - International Journal of Robust and Nonlinear Control Volume 20, Issue 18, pages 2045–2056, December 2010
4.	Rapaić Milan; Jeličić Zoran; Optimal control of a class of fractional heat diffusion systems , Nonlinear Dynamics Volume 62, Numbers 1-2, 39-51, DOI: 10.1007/s11071-010-9697-3 , Springer;
5.	Z. D. Jeličić, T. M. Atanacković, Optimal shape of a vertical rotating column, International Journal of Non-Linear Mechanics, 42, 172 – 179, (2007) .
6.	Zeljko Kanovic, Milan R Rapaic, Zoran D Jelicic, Generalized particle swarm optimization algorithm-Theoretical and empirical analysis with application in fault detection, Applied mathematics and computation, Volume 217, Issue 24, 15 August 2011, Pages 10175–10186.
7.	Jeličić, Z. D. Atanacković, T. M.,On an optimization problem for elastic rods, STRUCTURAL AND MULTIDISCIPLINARY OPTIMIZATION, (2006) vol.32 br.1 str. 59-64
8.	Milena Petković, Milan R Rapaić, Zoran D Jeličić, Alessandro Pisano, On-line adaptive clustering for process monitoring and fault detection, Expert Systems with Applications, Volume 39, Issue 11, 1 September 2012, Pages 10226–10235.
9.	T. M. Atanacković, Z. D. Jeličić, Optimal shape and deformations of a lifting line with winglets. Bulletin de l"Académie Serbe des Sciences et des Arts. Classe des Sciences techniques 29, 57-79 (2003).
10.	T. M. Atanackovic, Y. Huo, Z. Jelicic, I. Mueller, Phase diagrams modified by interfacial penalties, Theoret. Appl. Mech., Vol.34, No.4, pp. 301-338, Belgrade 2007.

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

Quotation total :	105			
Total of SCI(SSCI) list papers :	7			
Current projects :	Domestic :	2	International :	1

Science, arts and professional qualifications

Name and last name:	Jorgovanović Đ. Nikola
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	15.11.1999
Scientific or art field:	Automatic Control and System Engineering

Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
PhD thesis	2003	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Magister thesis	1996	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Bachelor's thesis	1992	Faculty of Technical Sciences - Novi Sad	Electronics

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

	ID	Course name	Study programme name, study type
1.	AU42	Technical Equipment for Control Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	AU43	Fundamentals of Biomedical Engineering	(BM0) Biomedical Engineering, Undergraduate Academic Studies (E20) Computing and Control Engineering, Undergraduate Academic Studies
3.	AU47	DSP Applications in Control Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
4.	AU49	Methods of Medical Image Forming and Analysis	(E20) Computing and Control Engineering, Undergraduate Academic Studies
5.	AUN43	Biomedical Engineering Technologies	(E20) Computing and Control Engineering, Undergraduate Academic Studies
6.	GI006	Satellite Navigation and Navigation Service	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
7.	GI206	Systems and Signals in Geomatics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
8.	Z411	Fundamentals of Instrumentation and Control	(Z20) Environmental Engineering, Undergraduate Academic Studies
9.	BM119A	The application of geoinformation technologies and systems in medicine	(BM0) Biomedical Engineering, Undergraduate Academic Studies
10.	BMI112	Biomedical engineering in sport physiology	(BM0) Biomedical Engineering, Undergraduate Academic Studies
11.	BMI114	Neural Prosthesis	(BM0) Biomedical Engineering, Undergraduate Academic Studies
12.	BMI120	Equipment and systems for helping the elderly, ill and disabled	(BM0) Biomedical Engineering, Undergraduate Academic Studies
13.	BMI122	Neurorehabilitation	(BM0) Biomedical Engineering, Undergraduate Academic Studies
14.	BMI124	System Modeling and Simulation	(BM0) Biomedical Engineering, Undergraduate Academic Studies
15.	E2314	Microprocessor Based Control Devices	(E20) Computing and Control Engineering, Undergraduate Academic Studies
16.	SEAU05	DSP Applications in Control Systems	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
17.	SEAU08	Microprocessor Based Control Devices	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
18.	AU504	Movement Control	(E20) Computing and Control 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
19.	AU505	Neural Prostheses	(E20) Computing and Control Engineering, Master Academic Studies
20.	AU507	Principles of Biomedical Engineering	(E20) Computing and Control Engineering, Master Academic Studies
21.	BMIM3B	Soft Sensors	(BM0) Biomedical Engineering, Master Academic Studies
22.	BMIM3C	Functional Electrical Therapy	(BM0) Biomedical Engineering, Master Academic Studies
23.	BMIM5C	Brain Computer Interface	(BM0) Biomedical Engineering, Master Academic Studies
24.	E2532	Automatic Control Systems Project Management	(E20) Computing and Control Engineering, Master Academic Studies
25.	SEAM04	Soft Sensors	(SE0) Software Engineering and Information Technologies, Master Academic Studies
26.	DAU008	Selected Chapters in Signal Processing in Biomedical Engineering	(E20) Computing and Control Engineering, Doctoral Academic Studies
27.	DE518	Brain Computer Interface Systems	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
28.	DGI016	Selected Chapters in Systems and Signals	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
29.	DAU009	Selected Chapters in Biomedical Instrumentation and Telemetry	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Popović Maneski L., Jorgovanović N., Ilić V., Došen S., Keller T., Popović B. M., Popović B. D.: Electrical stimulation for the suppression of pathological tremor, MED BIOL ENG COMPUT, 2011, Vol. 49, No 10, pp. 1187-1193, ISSN 0140-0118
2. Popović-Bijelić A., Bijelić G., Jorgovanović N., Bojanić D., Popović M., Popović D.: Multi-field surface electrode for selective electrical stimulation , Artificial Organs, 2005, Vol. 29, No 6, pp. 448-452, ISSN 0160-564X
3. Malešević N., Popović Maneski L., Ilić V., Jorgovanović N., Bijelić V., Keller T., Popović D.: A multi-pad electrode based functional electrical stimulation system for restoration of grasp, J NEUROENG REHABIL, 2012, Vol. 9, No 66, ISSN 1743-0003
4. Čongradac V., Jorgovanović N., Stanišić D.: Assessing the energy consumption for heating and cooling in hospitals, Energy and Buildings, 2012, Vol. 48, pp. 146-154, ISSN 0378-7788
5. Bojanić D., Petrovački-Balj B., Jorgovanović N., Ilić V.: Quantification of dynamic EMG patterns during gait in children with cerebral palsy, Journal of Neuroscience Methods, 2011, No 198, pp. 325-331, ISSN 0165-0270
6. Krasnik R., Mikov A., Ilić V., Jorgovanović N., Demeši Drljan Č.: The use of Dynamic Electromyography in Gait Analysis, HealthMED, 2011, Vol. 5, No 4, pp. 888-893, ISSN 1840-2291
7. Jorgovanović N., Došen S., Petrović R.: Novel Electronic Stimulator for Functional Electrical Therapy, Journal of Automatic Control, 2005, Vol. 15, No 5, pp. 27-30, UDK: 621.3-52
8. Jorgovanović N.: Upravljanje funkcionalnom električnom stimulacijom za neurorehabilitaciju pokreta, Novi Sad, Univerzitet u Novom Sadu, Fakultet tehničkih nauka, 2003
9. Jorgovanović N.: NEURON - neuronski računarski sistem, Novi Sad, Univerzitet u Novom Sadu, Fakultet tehničkih nauka, 1996
10. Govedarica M., Petrovački D., Ristić A., Jovanović D., Popov S., Ristić A., Pajić V., Sladić D., Vrtunski M., Badnjarević I., Alargić I., Jorgovanović N., Tepić Ž., Bojanić D., Stanišić D., Ilić V., Pržulj Đ.: Geografski informacioni sistem za potrebe Ministarstva zaštite životne sredine, 2010

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

Quotation total :	81			
Total of SCI(SSCI) list papers :	6			
Current projects :	Domestic :	1	International :	1

Science, arts and professional qualifications

Name and last name:	Jović Đ. Miomira
Academic title:	Foreign Language Lecturer
Name of the institution where the teacher works full time and starting date:	Faculty of Sciences - Novi Sad
	01.09.2001
Scientific or art field:	German

Academic carieer	Year	Institution	Field
Academic title election:	2005		German
Bachelor's thesis	1973		German

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

	ID	Course name	Study programme name, study type
1.	F331	German Language – LSP Course 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
2.	NJ01Z	German Language – Elementary	(A00) Architecture, Undergraduate Academic Studies (AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies (F00) Graphic Engineering and Design, 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
3.	NJ02L	German Language – Pre-Intermediate	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (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 (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
4.	NJ05	German Language for GRID 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
5.	NJ06	German Language for GRID 2	(F00) Graphic Engineering 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
6.	NJ1L	German Language - Elementary	(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
7.	SSIP22	German Language for Engineers 1	(E01) Power Engineering - Renewble Sources of Electrical Energy, Undergraduate Professional Studies
8.	NJ01Z	Nemački jezik - osnovni(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
9.	NJ02L	Nemački jezik - niži srednji(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
10.	F508	German Language for GRID 3	(F00) Graphic Engineering and Design, Master Academic Studies
11.	nja	German Language in Architecture	(AH0) Architecture, Master Academic Studies

Representative refferences (minimum 5, not more than 10)

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:	Juhas T. Anamarija
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.11.1990
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	1994	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
Bachelor's thesis	1990	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.	EE300	Electromagnetics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EOS01	Fundamental electrical engineering	(E01) Power Engineering - Renewble Sources of Electrical Energy, Undergraduate Professional Studies
3.	I087	Electrical Engineering in Industrial Engineering	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	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
5.	Z107	Electrical Engineering, Environment and Protection	(Z01) Safety at Work, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
6.	II1007	Fundamental electrical engineering	(I10) Industrial Engineering, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies
7.	URZP12	Introduction to electrical engineering	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
8.	DE208S	Selected Chapters on Electromagnetic Compatibility	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
9.	DE408S	Selected chapters inl electromagnetics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
10.	EE543	Electro Magnetic Energy	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
11.	H799	Fieldbuses and protocols	(H00) Mechatronics, 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. A. Juhas, L. A. Novak, “Comments on “Class-E, Class-C, and Class-F power amplifier based upon a finite number of harmonics”,” IEEE Transactions of Microwave Theory and Techniques, vol. 57, no. 6, pp. 1623-1625, June 2009. ISSN 0018-9480.
2. A. Juhas, L. A. Novak,S Kostić, ”Signals with Flattened Extrema in Balance Power Analysis of HFHPTA: Theory and Applications”, IEEE Transactions on Broadcasting, vol. 47, no. 1, pp.38-45, 2001. ISSN 0018-9316
3. S. Kostić, L. A. Novak, A. Juhas, ”Increasing Efficiency and Output Power of HFHPTA by Injection of Two Harmonics”, IEEE Transactions on Broadcasting, vol. 47, no. 1, pp.32-37, 2001. ISSN 0018-9316

Representative refferences (minimum 5, not more than 10)

4.	D. Herceg, A. Juhas, M. Milutinov,." A design of a four square coil system for a biomagnetic experiment," Facta universitatis - series: Electronics and Energetics, 2009, Vol. 22, No 3, pp. 285-292. ISSN 0353-3670
5.	L. A. Novak, A. Juhas, "O broju maksimuma u dvočlanim složenoperiodičnim funkcijama: krive katastrofa", Elektrotehnika, br. 1-2, pp. E7-E10, 1994.
6.	A. Juhas, M. Milutinov, M. Prša, "Magnetic field of multi-line power system", Scientific bulletin of the "Politehnica" University of Timisoara, Proceedings of the 7th Int. Power Systems Conf., Timisoara, Romania, 22-23 Nov. 2007, Tom 52, pp. 319-328. ISSN 1582-7194.
7.	M. Milutinov, A. Juhas, M. Prša, "Electric and magnetic field in vicinity of overhead multi-line power system", Acta Electrotehnica, Proceedings of the 2nd Int.l Conf. on Modern Power Systems MPS 2008, Cluj-Napoca, Romania, 12-14 Nov.r 2008, pp. 313-316. ISSN 1841-3323.
8.	A. Juhas, M. Milutinov, N. Pekarić-Nađ, "Iskustva u primeni nacionalnih pravilnika o nejonizujućim zračenjima", Telekomunikacije, No 7, pp. 70-77, 2011. ISSN 1820-7782
9.	A. Juhas, M. Milutinov, D. Herceg, M. Prša, N. Pekarić-Nađ, "Uređaj za generisanje homogenog magnetskog polja kontrolisanog intenziteta za potrebe biomagnetskih ekspreimenata",Tehničko rešenje, decembar 2010.
10.	A. Juhas, N. Pekarić-Nađ, D. Herceg, " Estimation of Human Exposure to Combined RF EM Field of Multiple Antennas," Proceedings of International PhD Seminar on computational electromagnetics and optimization in electrical engineering – CEMOEE 2010, Sofia, Bulgaria, 10-13 Sep., 2010, pp. 27-31, ISBN 978-954-438-856-0

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

Quotation total :	5			
Total of SCI(SSCI) list papers :	3			
Current projects :	Domestic :	1	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:	Kecman M. Vojislav
Academic title:	Guest Professor
Name of the institution where the teacher works full time and starting date:	-
Scientific or art field:	Automatic Control and System Engineering

Academic carieer	Year	Institution	Field
Academic title election:	2012		Automatic Control and System Engineering
PhD thesis	1982	Faculty of Mechanical Engineering and Naval Architecture - Zagreb	Electrical and Computer Engineering
Magister thesis	1978	Faculty of Mechanical Engineering and Naval Architecture - Zagreb	Electrical and Computer Engineering
Bachelor's thesis	1972	Faculty of Mechanical Engineering and Naval Architecture - Zagreb	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.	GI206	Systems and Signals in Geomatics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
2.	DAU006	Selected Chapters in Modeling and Simulation of Dynamic Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies
3.	DAU007	Selected Topics in Artificial Intelligence in Control and Signal Processing	(E20) Computing and Control Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Huang T.-M., V. Kecman, I. Kopriva, Kernel Based Algorithms for Mining Huge Data Sets, Supervised, Semi-supervised, and Unsupervised Learning, Springer-Verlag, Berlin, Heidelberg, 2006, see http://www.learning-from-data.com
2.	Kecman V., Learning and Soft Computing, Support Vector Machines, Neural Networks, and Fuzzy Logic Models, Pearson Education India, (Special Indian Edition), New Delhi, India, 2005, see http://www.support-vector.ws
3.	Kecman V., Learning and Soft Computing, Support Vector Machines, Neural Networks, and Fuzzy Logic Models, The MIT Press, Cambridge, MA, USA, (608 p.), 2001, see http://www.support-vector.ws
4.	Kecman V., Process Dynamics, (Sc), 3rd Ed., Liber, Zagreb, YU, (300 p.), 1990
5.	Kecman V., State-Space Models of Lumped and Distributed Systems, Springer-Verlag, Berlin, Heidelberg, New York, London, Paris, Tokio, (280 p.), 1988
6.	Kecman V., Foundations of Automatic Control, (Sc), Zagreb, YU, (253 p.), 1988
7.	Kecman V., Chapter 'Basics of Machine Learning by Support Vector Machines', in a Springer-Verlag book, 'Real World Applications of Computational Intelligence', Series: Studies in Fuzziness and Soft Computing, Vol. 179, pp. 49-103, Eds. M. Negoita , B. Reusch, 2005
8.	Kecman V., Chapter 'Support Vector Machines – An Introduction', in a Springer-Verlag book, 'Support Vector Machines: Theory and Applications', Ed. L. Wang, Series: Studies in Fuzziness and Soft Computing, Vol. 177, pp. 1-47, 2005
9.	Vogt M., V. Kecman, Chapter 'Active-Set Methods for Support Vector Machines', in a Springer-Verlag book, 'Support Vector Machines: Theory and Applications', Ed. L. Wang, Series: Studies in Fuzziness and Soft Computing, Vol. 177, pp. 133-158, 2005
10.	Kecman V., T.-M. Huang, M. Vogt, Chapter 'Iterative Single Data Algorithm for Training Kernel Machines from Huge Data Sets: Theory and Performance', in a Springer-Verlag book, 'Support Vector Machines: Theory and Applications', Ed. L. Wang, Series: Studies in Fuzziness and Soft Computing, Vol. 177, pp. 255-274, 2005

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

Quotation total :	375			
Total of SCI(SSCI) list papers :	28			
Current projects :	Domestic :	0	International :	0

Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES — Geodesy and Geomatics

Science, arts and professional qualifications

Name and last name:	Kočetov-Mišulić Đ. Tatjana
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.01.1989
Scientific or art field:	Constructions in Civil Engineering

Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Constructions in Civil Engineering
PhD thesis	2008	Faculty of Technical Sciences - Novi Sad	Constructions in Civil Engineering
Magister thesis	1997	Faculty of Technical Sciences - Novi Sad	Constructions in Civil Engineering
Bachelor's thesis	1988	Faculty of Technical Sciences - Novi Sad	Constructions in Civil Engineering

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

	ID	Course name	Study programme name, study type
1.	GG203	Actions on Structures	(G00) Civil Engineering, Undergraduate Academic Studies
2.	GG30	Concrete Structures	(G00) Civil Engineering, Undergraduate Academic Studies
3.	GG34	Timber Structures	(G00) Civil Engineering, Undergraduate Academic Studies
4.	GI308A	Fundamentals in Civil Engineering	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
5.	A305	Bearing structures 1	(A00) Architecture, Undergraduate Academic Studies
6.	GG37	Basics of design in civil engineering structures	(G00) Civil Engineering, Undergraduate Academic Studies
7.	GG411	Masonry structures	(G00) Civil Engineering, Undergraduate Academic Studies
8.	GH407	Concrete structures - Hydrotechnics	(G00) Civil Engineering, Undergraduate Academic Studies
9.	GP406	Concrete structures - Roads	(G00) Civil Engineering, Undergraduate Academic Studies
10.	GG514	Special Timber Structures	(G00) Civil Engineering, Master Academic Studies
11.	GG517	Damages and Repair of Masonry, Steel and Timber Structures	(G00) Civil Engineering, Master Academic Studies
12.	URZP62	Assessment of Damaged Structures	(ZP1) Disaster Risk Management and Fire Safety, Master Academic Studies
13.	AD0009	Complex Timber Structures	(AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, Master Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Zakić, B., Kočetov Mišulić, T., Čakić, B. (1998): "Montažne drvene kuće u svetu i kod nas". Univerzitet u Prištini, Priština, SRJ, 105 str.
2. Zakić, B., Lekić, R., Đukić, Lj., Kočetov, T. (1992): "Naponsko stanje u truss joist nosačima". "Materijali i konstrukcije", br. 1-2, Beograd, SRJ, str. 30-36.
3. Zakić, B., Kočetov Mišulić, T. (2000): "Osnovi plastične teorije kod drveta". "Materijali i konstrukcije", Beograd, SRJ, 43 br. 3-4, str. 37-40.
4. Zakić, B., Kočetov, T. (1994): "Composite beam structures - wood and concrete". Proceedings of 4th ASCCS International Conference on Steel-Concrete Composite Structures, Košice, Slovakia, pp. 328-334.
5. Kočetov Mišulić, T., Gramatikov, K. (2003): "Proračun i ispitivanje veza u drvenim konstrukcijama prema EC-5 i EN standardima". Zbornik radova INDIS 2003. - 9.og nacionalnog simpozijuma, Novi Sad, SCG, str. 291-298.
6. Kočetov Mišulić, T., Stevanović, B. (2005): "Preporuke za održavanje, praćenje, i ocenu stanja drvenih konstrukcija". Zbornik radova IV naučno-stručnog savetovanja Ocena stanja, održavanje i sanacija građevinskih objekata i naselja, Zlatibor, str.175-180.
7. Stevanović, B., Kočetov Mišulić, T. (2005): "Faktori obezbeđenja trajnosti i zaštita drvenih konstrukcija". Zbornik radova IV naučno-stručnog savetovanja Ocena stanja, održavanje i sanacija građevinskih objekata i naselja, Zlatibor, SCG, str.181-186.
8. Kočetov Mišulić T., Stevanović B. (2008): "Eksperimentalna podloga za uvodjenje klasa čvrstoće četinarske rezane građe na domeće tržište" „Materijali i konstrukcije“, br. 4, Beograd, str. 50-62.
9. Kočetov Mišulić, T., Gramatikov, K. (2005): "Experimentally supported investigation of in row nailed connections under monotone and cyclic loadings". Proceedings of the 11th International MASE Symposium, Ohrid, Republic Macedonia, SI-2, pp. 275-280.
10. Zakić, B., Janković, D., Kovačević, D., Kočetov, T. (1990): "Izmereni smičući i glavni naponi kod lameliranih lepljenih konstrukcija". Zbornik radova IX Kongresa JUDIMK-a, Novi Sad, SFRJ, Knjiga II, str. 265-273.

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

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

Science, arts and professional qualifications

Name and last name:	Kolaković R. Srđan
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.09.2002
Scientific or art field:	Hydrotechnics

Academic carieer	Year	Institution	Field
Academic title election:	2003	Faculty of Technical Sciences - Novi Sad	Hydrotechnics
Magister thesis	1998	Faculty of Civil Engineering - Beograd	Hydrotechnics
PhD thesis	1993	Faculty of Civil Engineering Subotica - Subotica	Hydrotechnics
Bachelor's thesis	1982	Faculty of Civil Engineering Subotica - Subotica	Hydrotechnics

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

	ID	Course name	Study programme name, study type
1.	GG18	Fundamentals in Hydromechanics and Hydrotechnics	(G00) Civil Engineering, Undergraduate Academic Studies
2.	GG301	Hydrotechnical Facilities and Systems	(G00) Civil Engineering, Undergraduate Academic Studies
3.	GH406	Hydrotechnical Ameliorations	(G00) Civil Engineering, Undergraduate Academic Studies
4.	GI308A	Fundamentals in Civil Engineering	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
5.	URZP59	Flood Defense Measures	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
6.	Z210	Fundamentals of Water Protection	(Z01) Safety at Work, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
7.	Z417	Methods and Systems for Water Treatment	(Z20) Environmental Engineering, Undergraduate Academic Studies
8.	Z417	Postupci i postrojenja za tretman voda(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
9.	GG506	Professional Practice	(G00) Civil Engineering, Master Academic Studies
10.	GH505	Framework Directives E3 (WDF)	(G00) Civil Engineering, Master Academic Studies
11.	MPK028	Hydrotechnical objects and systems	(MPK) Inženjerstvo tretmana i zaštite voda - TEMPUS(uneti naziv na engledskom), Master Academic Studies
12.	DGI002	Selected Chapters in Engineering Geodesy	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
13.	DGI019	Selected Chapters in Municipal Information Systems	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
14.	GD006	Selected Chapters in Hydraulics	(G00) Civil Engineering, Doctoral Academic Studies
15.	GD016	Selected Chapters in Water Regulation and Protection	(G00) Civil Engineering, Doctoral Academic Studies
16.	GD026	Selected Chapters in Hydro-infortmacis	(G00) Civil Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Trajkovic, S., Kolakovic, S.: Evoluation of Reference Evapotranspiration Equations under Humid Conditions, Wather Resources Mangement, 2009, vol. 23 br. 14, str. 3057-3067 UDK: doi: 10.1007/s11269-009-9423-4
2.	Trajkovic, S., Kolakovic, S.: Comparison of Simplified Pan-Based Equations for Estimating Reference Evapotranspiration, Journal of Irrigation and Drainage Enginering, American Society of Civil Engineers (ASCE), 136(2), 137-140, 2010., ISSN 0733-9437
3.	Trajkovic S., Kolakovic S., Estimating Reference Evapotranspiration Using Limited Weather Data, Journal of Irrigation and Drainage Engineering -ASCE, Vol. 135, Number 4. str. 443-449 ISSN 0733-9437, 2009.
4.	Trajkovic S., Kolakovic S., Wind-adjusted Turc equation for estimating reference evapotranspiration at humid European locations, Hidrology Research (formerly Nordic Hidrology), 2009, Vol. 40, No. 1, str. 45- 52, ISSN 0029-1277.
5.	Stipic M., Prodanovic D., Kolakovic S., Rationalization and reliability improvement of fire fighting systems in big cities, Urban Water, 008, vol. 6 br. 2, str. 169-181, ISSN 1462-0758.
6.	Kolakovic S., Stevanovic D., Milićević D., Trajković S., Milenković S., Kolaković S.S., Anđelković Lj.: EFFECTS OF REACTIVE FILTERS BASED ON MODIFIED ZEOLITE IN DAIRY INDUSTRY WASTEWATER TREATMENT PROCESS, Chemical Industry & Chemical Engineering Quarterly, DOI:10.2298/CICEQ120629092K
7.	HIDROTEHNIČKE MELIORACIJE – ODVODNJAVANJE (dopunjeno izdanje sa zadacima i CD diskom sa softverom za proračun ETP) , autori: Srđan Kolaković i Slaviša Trajković, Edicija “Tehničke nauke”, Fakultet tehničkih nauka – Novi Sad i Građevinsko-arhitektonski fakultet u Nišu (zajednički udžbenik na dva fakulteta), ISBN I86-789-002-5, 626.86(075.8) 335 strana.
8.	O PRELIVIMA UZ NASUTE BRANE, (monografija) , G.Hajdin, S.Kolaković, L.Hovanj, Đ.Fabian, Građevinski fakultet - Subotica, 1998., ISBNI 86-80297-22-4Naučna knjiga i monografija nacionalnog značaja

Representative refferences (minimum 5, not more than 10)	
9.	PUBLIC OPINION SURVEY AS A FORM OF PUBLIC PARTICIPATION IN THE IMPLEMENTATION OF THE WATER FRAMEWORK DIRECTIVE-LESKOVAC FIELD IRRIGATION, FACTA UNIVERSITAS, SERIES:ARCHITECTURE AND CIVIL ENGINEERING, 3 (2), 173-184, 2005, 14, Trajković, S., Kolaković, S., Injatović, M.
10.	Kolakovic S., Fabian Đ., Santrac P.; STATE OF CHANNEL BEGA 300 YEARS AFTERWARD ITS COMPLETION, Workshop on the Bega Channel, Subotica 19-21 october 2001

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 :	3

Science, arts and professional qualifications

Name and last name:	Konjović D. Zora
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.10.1981
Scientific or art field:	Applied Computer Science and Informatics

Academic carieer	Year	Institution	Field
Academic title election:	2003	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	1992	Faculty of Technical Sciences - Novi Sad	Robotics and Flexible Automation
Magister thesis	1985	Faculty of Technical Sciences - Novi Sad	Robotics and Flexible Automation
Bachelor's thesis	1973	Faculty of Sciences - Novi Sad	Mathematics

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

	ID	Course name	Study programme name, study type
1.	E231	Numerical Algorithms and Numerical Software	(E20) Computing and Control Engineering, 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 (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E233	Internet Networks	(E20) Computing and Control Engineering, 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 (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	E236A	Computational Intelligence Fundamentals	(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.	E2K42	Knowledge Based Systems	(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
5.	ISIT41	eGovernment technologies and systems	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
6.	BMI101	Introduction to Medical Informatics	(BM0) Biomedical Engineering, Undergraduate Academic Studies
7.	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
8.	SES301	IT Law	(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
9.	E2513	Semantic Web	(E20) Computing and Control Engineering, Master Academic Studies (PM0) Production Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
10.	E2514	Biologicaly inspired computing	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
11.	EP002	EBusiness technologies and systems	(I20) Engineering Management, Specialised Professional Studies (IB0) Engineering Management - MBA, Specialised Professional Studies
12.	E2525	Contemporary educational technologies and standards	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
13.	SEM013	E-government technologies	(SE0) Software Engineering and Information Technologies, Master Academic Studies
14.	DAU002	Selected Chapters in Computing	(F00) Graphic Engineering and Design, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies
15.	DRNI07	Selected Chapters in Computational Intelligence	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
16.	FDS152	Selected Topics in Computer Graphics	(F00) Graphic Engineering and Design, Doctoral Academic Studies
17.	DAU014	Selected Topics in Computing	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
18.	DRNI10	Selected Topics in E-Government	(E20) Computing and Control Engineering, Doctoral Academic Studies
19.	DRNI17	Selected Topics in ICT enhanced learning	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Obradovic Djordje, Konjovic Zora, Pap Endre, Ralevic Nebojsa (2011). The maximal distance between imprecise point objects, Fuzzy Sets and Systems, Vol. 170 no. 1, pp. 76-94
2. Obradovic Djordje, Konjovic Zora, Pap Endre, Rudas Imre (2012). Linear Fuzzy Space Based Road Lane Detection. Knowledge-Based Systems (rad objavljen u elektronskom obliku http://www.sciencedirect.com/science/article/pii/S0950705112000032)
3. Kovačevic Aleksandar, Konjović Zora, Milosavljević Branko, Nenadić Goran (2012). Mining methodologies from NLP publications: A case study in automatic terminology recognition, Computer Speech And Language, Vol. 26 no. 2, pp. 105-126
4. Gostojić Stevan, Sladić Goran, Milosavljević Branko, Konjović Zora (2012). Context-sensitive Access Control Model for Government Services. Journal of Organizational Computing and Electronic Commerce, Vol. 22 no. 2, pp. 184-213
5. Sladić Goran, Milosavljević Branko, Surla Dušan, Konjović Zora (2012). Flexible Access Control Framework for MARC Records. Electronic Library (ISSN: 0264-0473), 30:5, pp. 623-652
6. Savić Goran, Segedinac Milan, Konjović, Zora (2012).Automatic Generation of E-Courses Based on Explicit Representation of Instructional Design. Computer Science and Information Systems. Vol. 9 no. 2, pp. 839 – 869.
7. Sladić Goran, Milosavljević Branko, Konjović Zora, Vidaković Milan (2011). Access Control Framework for XML Document Collections. Computer Science and Information Systems / ComSIS (ISSN: 1820-0214), 8:3, pp. 591-609
8. Ivanovic Dragan, Surla Dusan, Konjovic Zora (2011). CERIF compatible data model based on MARC 21 format, Electronic Library, Vol. 29 no. 1, pp. 52-70
9. Kovacevic Aleksandar, Ivanovic Dragan, Milosavljevic Branko, Konjovic Zora, Surla Dusan (2011). Automatic extraction of metadata from scientific publications for CRIS systems, Program-Electronic Library and Information Systems, Vol. 45 no. 4, pp. 376-396

Representative refferences (minimum 5, not more than 10)

10.	Segedinac, Milan, Konjović, Zora, Segedinac Mirjana, Savić, Goran (2011). A Formal Approach to Organization of Educational Objectives. Psihologija, Vol. 44 no. 4, pp. 307-323.

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

Quotation total :	0			
Total of SCI(SSCI) list papers :	15			
Current projects :	Domestic :	2	International :	1

Science, arts and professional qualifications

Name and last name:	Kostić Z. Marko
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	15.10.1999
Scientific or art field:	Mathematics

Academic carieer	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Mathematics
PhD thesis	2004	Faculty of Sciences - Novi Sad	Mathematical Sciences
Magister thesis	2001	Faculty of Sciences - Novi Sad	Mathematical Sciences
Bachelor's thesis	1999	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.	E135B	Mathematical Analysis 2	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
3.	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
4.	EOS07	Mathematics 2	(E01) Power Engineering - Renewble Sources of Electrical Energy, Undergraduate Professional Studies
5.	F101	Mathematics	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
6.	GI107	Mathematical Analysis 1	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
7.	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
8.	M4202	Applied Mathematical Analysis	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
9.	ISIT06	Matematika 2	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
10.	0M501	Functional Analysis	(OM1) Mathematics in Engineering, Master Academic Studies
11.	0ML501	Functional Analysis	(OM1) Mathematics in Engineering, Master 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.	Z506	20BAdvanced Course in Mathematics 1	(ZP1) Disaster Risk Management and Fire Safety, Master Academic Studies (Z20) Environmental Engineering, Master Academic Studies
14.	Z506	Viši kurs matematike 1(uneti naziv na engleskom)	(Z20) Environmental Engineering, Master Academic Studies
15.	D0M01	Functional Analysis 1	(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.	D0M19	Functional Analysis 2	(OM1) Mathematics in Engineering, Doctoral Academic Studies
17.	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. Kostić, Marko, Distribution cosine functions. Taiwanese J. Math. 10 (2006), no. 3, 739--775.
2. Kostić Marko,On analytic integrated semigroups. Novi Sad J. Math. 35 (2005), no. 1, 127--135.
3. Kostić Marko,Convoluted C-cosine functions and convoluted C-semigroups. Bull. Cl. Sci. Math. Nat. Sci. Math. No. 28 (2003), 75--92.
4. Kostić Marko, On a class of quasi-distribution semigroups, Novi Sad J. Math 36 (2), 137-152
5. M. Kostić, P. J. Miana, Relations between distribution cosine functions and almost-distribution cosine functions, Taiwanese Journal of Mathematics 11 (2007), 531--543.
6. M. Kostić, S. Pilipović, Global convoluted semigroups, accepted in Math. Nachr.
7. M. Kostić, S. Pilipović: Convoluted C-cosine functions and semigroups. Relations with ultradistribution and hyperfunction sines, accepted in J. Math. Anal. Appl.
8. M. Kostić: Complex powers of operators, accepted in Publications De"l Institute Mathematique
9. M. Kostić: C-Distribution semigroups, Studia Math. 185 (2008), 201--217.
10. M. Kostić: Convoluted operator families and abstract Cauchy problems, accepted in Kragujevac Journal of Mathematics

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

Quotation total :	32			
Total of SCI(SSCI) list papers :	15			
Current projects :	Domestic :	1	International :	0

Science, arts and professional qualifications

Name and last name:	Kostreš Lj. Milica
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	17.09.2001
Scientific or art field:	Architectural-Urbanistic Planning, Design and Theory

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Architectural-Urbanistic Planning, Design and Theory
PhD thesis	2012	Faculty of Technical Sciences - Novi Sad	Architectural-Urbanistic Planning, Design and Theory
Magister thesis	2005	Faculty of Technical Sciences - Novi Sad	Architectural-Urbanistic Planning, Design and Theory
Bachelor's thesis	2001	Faculty of Technical Sciences - Novi Sad	Architectural-Urbanistic Planning, Design and Theory

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

	ID	Course name	Study programme name, study type
1.	A353	Landscape Architecture 1	(A00) Architecture, Undergraduate Academic Studies
2.	A372	Urban Design 3	(A00) Architecture, Undergraduate Academic Studies
3.	A364	Principles of Design for All 1	(A00) Architecture, Undergraduate Academic Studies
4.	A505	Contemporary trends and processes in urban design	(A00) Architecture, Undergraduate Academic Studies
5.	A801	Synthesis project	(A00) Architecture, Undergraduate Academic Studies
6.	ASI281	Urban Design	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
7.	GI305A	Spatial and Urban Planning	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
8.	A001	Theory and Criticism of Urban Environment	(AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, Master Academic Studies (AH0) Architecture, Master Academic Studies
9.	A006S	Theoretical Discourse in Architecture – Selected Chapters	(A00) Architecture, Specialised Academic Studies
10.	A008S	Development of typology of urban spaces	(A00) Architecture, Specialised Academic Studies
11.	RPR001	Sustainable Regional Development and EU Strategies	(RPR) Regional Development Planning and Management, Master Academic Studies
12.	A116AS	Urban and regional dynamics and functional principles	(A00) Architecture, Specialised Academic Studies (GI0) Geodesy and Geomatics, Specialised Academic Studies
13.	AE01	Contemporary Interiors and Design	(AH0) Architecture, Master Academic Studies
14.	AUP06	Strategies and methods in architecture and urban design	(AH0) Architecture, Master Academic Studies
15.	RPR21	Contemporary Theories, Methods and Technologies in Urban Planning	(RPR) Regional Development Planning and Management, Master Academic Studies
16.	SDGI2A	Urbanism and Spatial Planning - selected chapters	(GI0) Geodesy and Geomatics, Specialised Academic Studies
17.	A008	Development of the Typology for Urban Space– Selected Chapters	(A00) Architecture, Doctoral Academic Studies
18.	A116A	Urban and regional dynamics and functional principles	(A00) Architecture, Doctoral Academic Studies (AS0) Scenic Design, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Kostreš, M., Maraš, I., Atanacković-Jeličić, J., Re-viewing Cityscapes, Facta Universaitatis, Series: Architecture and Civil Engineering, Vol. 5, No. 1, 2007, pp. 77-85
2.	Kostreš, M & D Reba, 'Housing for the new economic elite - a case study of Novi Sad', Facta Universitatis - series: Architecture and Civil Engineering, Vol. 8, No.3, 2010, pp. 329-343, ISSN 0354 – 4605, UDC 728.1/3.(497.11)(045)=111
3.	Trkulja, J., Kostreš, M., Maraš, I.: A City in Flux, Creating a New Urban Identity and Promoting Sustainable Designs, BDC Journal, Vol.9, 2008, pp. H2(1)- H2(10), ISSN 1121-2918
4.	Kostreš, M., Maraš, I., Atanacković-Jeličić, J., Design Tool for Making Meaning - Rebuilding "the Lost Communities" on the Outskirts of the Cities in Serbia, BDC Journal, Vol.9, 2008, pp. A2(1)- A2(10), ISSN 1121-2918

Representative refferences (minimum 5, not more than 10)

5.	Maraš, I., Atanacković Jeličić, J., Kostreš, M., Todorov, M., Dorić, M., Reba, D. Glavni arhitektonsko/građevinski projekat Centralne zgrade Univerziteta u Novom Sadu/Central building of University of Novi Sad (projektovan 2008, u izvođenju 2011-2012) Prikazano na međunarodnoj izložbi ""NOW/SADA" (8-26. decembar 2011. godine) sa dvojezičnim katalogom Now/Sada:Teaching by Design/Italy Now, str. 7-10, ISBN 978-86-7892-365-4
6.	Usvojeni urbanistički plan "PDR MIŠELUKA II U NOVOM SADU, br. 1.4.15/2006" (objavljen u: Sl. list Grada Novog Sada br. 38/2008) i prikazan u radu u časopisu međunarodnog značaja verifikovanom posebnom odlukom (M24) : Kostreš, M; Reba, D: 'Housing for the new economic elite - a case study of Novi Sad', Facta Universitatis - series: Architecture and Civil Engineering, Vol. 8, No.3, 2010, pp. 329-343, ISSN 0354 – 4605, UDC 728.1/3.(497.11)(045)=111. Obrađivač plana: JP "Urbanizam" Novi Sad Investitor plana: JP "Zavod za izgradnju grada" Novi Sad Stručna kontrola plana: Komisija za planove Skupštine grada Novog Sada; rukovođenje: predsednik dr Milica Kostreš Sprovođenje procesa usvajanja, kontrola i usaglašavanje sa važećim propisima Republike Srbije: Uprava za urbanizam i stambene poslove Grada Novog Sada i Član veća grada Novog Sada zadužen za urbanizam i zaštitu životne sredine dr Jelena Atanacković Jeličić
7.	Reba, D; Dinulović, R; Atanacković Jeličić, J; Kostreš, M: Now/Sada:Teaching by Design/Italy Now, Fakultet tehničkih nauka, Univerzitet u Novom Sadu, 2011, ISBN 978-86-7892-365-4
8.	Kostreš, M, I Maraš & J Atanacković-Jeličić, 'Prilog metodologiji projektovanja javnih prostora urbane periferije', u Kurtović-Folić, N., ur., Unapređenje strategije obnove i korišćenja javnih prostora u prostornom i urbanističkom planiranju i projektovanju, Fakultet tehničkih nauka, Univerzitet u Novom Sadu, 2011, Novi Sad, str. 55-70, ISBN 978-86-7892-254-1
9.	Reba, D & M Kostreš, 'Analiza potencijala otvorenih prostora centralnih područja vojvođanskih gradova kao mesta socijalizacije', u Kurtović-Folić, N., ur., Unapređenje strategije obnove i korišćenja javnih prostora u prostornom i urbanističkom planiranju i projektovanju, Fakultet tehničkih nauka, Univerzitet u Novom Sadu, 2011, Novi Sad, str. 33-55, ISBN 978-86-7892-254-1
10.	Kostreš, M, 'Urbani konteksti arhitektonskih objekata za scenske događaje u Republici Srbiji', u Dinulović, R, D Konstantinović & M Zeković, ur., Arhitektura scenskih objekata u Republici Srbiji, Fakultet tehničkih nauka, Univerzitet u Novom Sadu, 2011, Novi Sad, str. 137-152, ISBN 978-86-7892-255-8

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:	Kovačević 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
	15.07.2007
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	Informatics
Magister thesis	2006	Faculty of Technical Sciences - Novi Sad	Informatics
Bachelor's thesis	2003	Faculty of Sciences - Novi Sad	Information-Communication Systems

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

	ID	Course name	Study programme name, study type
1.	E2K42	Knowledge Based Systems	(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.	ISIT03	Introduction to Programming	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
3.	ISIT27	Osnove softverskih arhitektura	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
4.	ISIT29	XML Technologies	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
5.	ISIT47	E-learning tools and technologies	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
6.	GI111	Information technologies in geodesy	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
7.	SES203	Machine Learning	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
8.	E2503	Data Mining and Data Analysis Systems	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
9.	E2514	Biologicaly inspired computing	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
10.	GS014	The application of information technologies in energy efficiency	(G10) Energy Efficiency in Buildings, Specialised Academic Studies
11.	E2524	Text Mining	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
12.	E2527	Business Intelligence	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
13.	SEM005	Decision Support Systems	(SE0) Software Engineering and Information Technologies, Master Academic Studies
14.	DRNI07	Selected Chapters in Computational Intelligence	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
15.	DRNI14	Selected Chapters in Machine Learning	(E20) Computing and Control Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)	
1.	Pretraživanje zvučnih zapisa
2.	Adaptivni sistem za pretraživanje zvučnih zapisa
3.	Kovačević, A., Milosavljević, B. “The Use of R-Trees for Content-Based Audio Retrieval”. In Proceedings of the 13th Scientific Conference on Industrial Systems, Herceg Novi, 2005. M63
4.	Kovačević A., Milosavljević, B., Konjović, Z. “Tjuniranje prostora osobina za pretraživanje zvučnih zapisa”. Zbornik radova YUInfo 2006, Kopaonik, Srbija, 2006. ISBN: 86-85525-01-2. M63
5.	Kovačević, A., Milosavljević, B., Konjović, Z., and Vidaković, M. 2010. "Adaptive content-based music retrieval system". Multimedia Tools and Applications, 47(3) (May. 2010), pp. 525-544. doi: http://dx.doi.org/10.1007/s11042-009-0336-2. ISSN: 1380-7501 (Print), 1573-7721 (Online). M23.
6.	Kovačević, A., Ivanović D., Milosavljević B., Konjović Z., Surla D., 2011. "Automatic extraction of metadata from scientific publications for CRIS systems" Program: Electronic library and information systems, 45(4), pp. 376 - 396. doi: http://dx.doi.org/10.1108/00330331111182094. ISSN: 0033-0337. M23
7.	Aleksandar Kovačević, Automatizovano izdvajanje semantike iz naučnih članaka u oblasti informatike, doktorska disertacija, Fakultet tehničkih nauka, Novi Sad, 2011.
8.	Majstorović D, Pele Z, Kovačević A, Čelanović N. "Computer Based Emulation of Power Electronics Hardware", In Proceedings of the First IEEE Eastern European Conference on the Engineering of Computer Based Systems, Novi Sad, Serbia, pages 56-64, 2009. ISBN: 978-0-7695-3759-7. M33
9.	Slivka, J. Kovačević, A., Konjović, Z., 2010. "Co-training based algorithm for datasets without the natural feature split." In Proceedings of the 8th International Symposium on Intelligent Systems and Informatics, Subotica, Serbia, 279-284, 2010. ISBN: 978-1-4244-7395-3. M33
10.	Miljković, D., Gajić, Lj., Kovačević, A., Konjović, Z., 2010. The use of data mining for basketball matches outcomes prediction. In Proceedings of the 8th International Symposium on Intelligent Systems and Informatics, Subotica, Serbia, 2010. 309-312. ISBN: 978-1-4244-7395-3. M33.

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	12			
Total of SCI(SSCI) list papers :	3			
Current projects :	Domestic :	2	International :	0

Science, arts and professional qualifications

Name and last name:	Lazarević M. Milovan
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	11.11.2000
Scientific or art field:	Production Systems, Organization and Management

Academic carieer	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Production Systems, Organization and Management
PhD thesis	2009	Faculty of Technical Sciences - Novi Sad	Engineering Management
Magister thesis	2006	Faculty of Technical Sciences - Novi Sad	Production Systems, Organization and Management
Bachelor's thesis	2000	Faculty of Technical Sciences - Novi Sad	Production Systems, Organization and Management

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

	ID	Course name	Study programme name, study type
1.	EOS19	Dismantling and recycling technologies	(E01) Power Engineering - Renewble Sources of Electrical Energy, Undergraduate Professional Studies
2.	M316	Production Systems	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
3.	II1012	Assembly Technologies	(I10) Industrial Engineering, Undergraduate Academic Studies
4.	II1017	Production System Design	(I10) Industrial Engineering, Undergraduate Academic Studies
5.	II1037	Disassembly and recycling technologies	(I10) Industrial Engineering, Undergraduate Academic Studies
6.	II1053	Production Systems	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
7.	IM1027	Production systems	(I20) Engineering Management, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
8.	IM1114	Energy Flows in the Enterprise	(I20) Engineering Management, Undergraduate Academic Studies
9.	IM1119	Product management at end of life	(I20) Engineering Management, Undergraduate Academic Studies
10.	EI504	Management of Small and Medium Enterprises	(MR0) Measurement and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
11.	IMDR0S	Selected chapters in enterprise's design, organization and control	(I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies
12.	IMDS56	Product traceability during the lifetime	(I12) Industrial Engineering, Specialised Academic Studies
13.	IMDS57	Strategic Planning and Designing Procedures and Systems at the End of Product Lifecycle	(I12) Industrial Engineering, Specialised Academic Studies
14.	IMDS93	Virtual Enterprises and Collaborative Systems	(I22) Engineering Management, Specialised Academic Studies
15.	MBA411	Business intelligence concepts	(I20) Engineering Management, Specialised Professional Studies (IB0) Engineering Management - MBA, Specialised Professional Studies
16.	PLM02	Product Development and Management in PLM	(I10) Industrial Engineering, Master Academic Studies (I1U) Industrial Engineering - Product Lifecycle Management and Development, Master Academic Studies

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

	ID	Course name	Study programme name, study type
17.	PLM06	Technologies for Disposal at the Products End-Of-Life	(I1U) Industrial Engineering - Product Lifecycle Management and Development, Master Academic Studies
18.	I907	Automated Assembly Systems for High Accuracy	(H00) Mechatronics, Master Academic Studies (PM0) Production Engineering, Master Academic Studies
19.	IIDR5S	Advanced Engineering Technologies	(I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies (M50) Energy Management, Master Academic Studies
20.	IIDS10	Effective technological and production structures	(I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies
21.	IM2102	Manufacturing strategy (KAIZEN, LEAN, KANBAN, EFPS)	(I10) Industrial Engineering, Master Academic Studies (M50) Energy Management, Master Academic Studies (I20) Engineering Management, Master Academic Studies
22.	IM2120	Virtual Enterprises	(I20) Engineering Management, Master Academic Studies
23.	IM2124	Production and Service Systems	(H00) Mechatronics, Master Academic Studies (M50) Energy Management, Master Academic Studies
24.	PLM02	Applied Product Development	(I20) Engineering Management, Specialised Professional Studies
25.	IMDR0	Science of Industrial Engineering and Management	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
26.	IMDR56	Traceability of Product Lifecycle	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
27.	IMDR57	Strategic Planning and Designing Procedures and Systems at the End of Product Lifecycle	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
28.	IMDR93	Virtual Enterprises and Collaborative Systems	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
29.	IMDR85	Effective technological and production structures	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Vukelić Đ., Ostojić G., Stankovski S., Lazarević M., Tadić B., Hodolič J., Simeunović N.: Machining fixture assembly/disassembly in RFID environment, Assembly Automation, 2011, Vol. 31, No 1, pp. 62-68, ISSN 0144-5154
2. Stankovski S., Ostojić G., Tarjan L., Škrinjar D., Lazarević M. : IML Robot Grasping Process Improvement (Article in press, Date of acceptance 14. March 2010), Iranian Journal of Science & Technology, Transactions B, 2011, ISSN 1028-6284
3. Ostojić G., Lazarević M., Stankovski S., Ćosić I. : RFID Technology Application in Disassembly Systems , Strojniski vestnik = Journal of Mechanical Engineering, 2008, Vol. 54, Broj 11, str. 759-767, ISSN 0039- 2480, UDK: 658.5
4. Stankovski S., Lazarević M., Ostojić G., Ćosić I., Purić R. : RFID Technology in Product/Part Tracking During the Whole Life Cycle , Assembly Automation, 2009, Vol. 29, Broj 4, str. 364-370, ISSN 0144-5154
5. Lazarević M., Ostojić G., Ćosić I., Stankovski S., Vukelić Đ., Zečević I.: Product lifecycle management (PLM) methodology for product tracking based on radio-frequency identification (RFID) technology, Scientific Research and Essays, 2011, Vol. 6, No 22, pp. 4776-4787, ISSN 1992-2248
6. Ostojić G., Stankovski S., Vukelić Đ., Lazarević M., Hodolič J., Tadić B., Odri S.: Implementation of automatic identification technology in a process of fixture assembly/disassembly, Strojniški vestnik - Journal of Mechanical Engineering, 2011, Vol. 57, No 11, pp. 819-825, ISSN 0039-2480
7. Lazarević M., Ostojić G., Stankovski S., Ćosić I.: Postupak upravljanja proizvodom u celokupnom životnom veku korišćenjem RFID taga, Broj priznatog patenta: 51796, datum priznavanja 24.10.2011. godine., 2011
8. Ćosić, I., Lazarević, M., Anišić, Z., Lalić, B.: Data Gathering Using Rfid Technology From Disassembly and Recycling Systems, 17th International DAAAM Symposium " Intelligent Manufacturing & Automation: Focus on Mechatronics and Robotics", Vienna, Austria, 2006.: DAAAM International, 8-11 november, 2006, str. 85- 86, ISBN 3-901509-57-7.
9. M. Lazarević, G. Ostojić, V. Jovanović, S. Stankovski: Implementation of RFID Tecnology In Disassembly Systems, 2nd Int. Conference on Changeable, Agile, Reconfigurable and Virtual Production, Toronto, Ontario, Canada: University of Windsor, 22-24 jul, 2007, str. 1191- 1200, ISBN 978-0-9783187-0-3.
10. Stankovski S., Ostojić G., Lazarević M., Popović B., Mijić D.: RFID TECHNOLOGY, PRIVACY AND SECURITY, Facta universitatis - series: Mechanical Engineering, 2010, Vol. 8, No 1, pp. 57-62, ISSN 0354–2025

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

Quotation total :	11
Total of SCI(SSCI) list papers :	6

Current projects :	Domestic :	4	International :	3

Science, arts and professional qualifications

Name and last name:	Leber J. Marjan
Academic title:	Guest Professor
Name of the institution where the teacher works full time and starting date:	-
Scientific or art field:	Proizvodni sistemi, organizacija i menadžment-projektovanje proizvodnih

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Proizvodni sistemi, organizacija i menadžment-projektovanje proizvodnih sistema
PhD thesis	2003	University of Maribor - Maribor	Production Systems, Organization and Management
Magister thesis	1993	University of Maribor - Maribor	Production Systems, Organization and Management
Bachelor's thesis	1982	University of Maribor - Maribor	Mechanical Engineering

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

	ID	Course name	Study programme name, study type
1.	IM1039	Fundamentals of Operations management	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
2.	IM1119	Product management at end of life	(I20) Engineering Management, Undergraduate Academic Studies
3.	ZR401A	Science on Work	(Z01) Safety at Work, Undergraduate Academic Studies
4.	EI504	Management of Small and Medium Enterprises	(MR0) Measurement and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
5.	ZR502	Occupational Risk Assessment	(Z01) Safety at Work, Master Academic Studies
6.	IM2102	Manufacturing strategy (KAIZEN, LEAN, KANBAN, EFPS)	(I10) Industrial Engineering, Master Academic Studies (M50) Energy Management, Master Academic Studies (I20) Engineering Management, Master Academic Studies
7.	IM2222	Managing Innovation Projects	(M50) Energy Management, Master Academic Studies (I20) Engineering Management, Master Academic Studies
8.	IM2315	Product and Process Improvement Projects	(I20) Engineering Management, Master Academic Studies
9.	IM2316	Theory of Constraints	(I10) Industrial Engineering, Master Academic Studies (I20) Engineering Management, Master Academic Studies
10.	IM2319	Project evaluation	(OM1) Mathematics in Engineering, Master Academic Studies (I20) Engineering Management, Master Academic Studies
11.	IM2922	eHRM	(I20) Engineering Management, Master Academic Studies
12.	ZRD27A	Operations management in the security and occupational safety	(Z01) Safety at Work, Doctoral Academic Studies
13.	ZRD28A	Selected topics in the science of occupational safety	(Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	POLAJNAR, Andrej, LEBER, Marjan, VUJICA-HERZOG, Nataša. Muscular-skeletal diseases require scientifically designed sewing workstations. Stroj. vestn., 2010, vol. 56, no. 1, str. 31-40. http://sl.sv-jme.eu/scripts/download.php?file=/data/upload/2010/01/ 4_2008_118_Polajnar_zl.pdf. [COBISS.SI-ID 13950486]
2.	POLAJNAR, Andrej, BUCHMEISTER, Borut, LEBER, Marjan. Analysis of different transport solutions in the flexible manufacturing cell by using computer simulation. Int. j. oper. prod. manage., 1995, let. 15, št. 6, str. 51-58. [COBISS.SI-ID 7611908]
3.	POLAJNAR, Andrej, BUCHMEISTER, Borut, LEBER, Marjan. Racionalizacija v serijski proizvodnji po načelih tipske tehnologije = Rationalization of series production by applying the principles of type technology. Stroj. vestn., 1995, let. 41, št. 7/8, str. 263-270. [COBISS.SI-ID 7901444]

Representative refferences (minimum 5, not more than 10)

4.	LEBER, Marjan, POLAJNAR, Andrej, BUCHMEISTER, Borut. Načrtovanje zanesljivosti izdelkov in proizvodnih sistemov z upoštevanjem analize mogočih napak in njihovih posledic = Planning of product reliability and production systems by using failure modes and effects analysis. Stroj. vestn., 1994, let. 40, št. 9/10, str. 333-338. [COBISS.SI-ID 6902532]
5.	KALPIČ, Branko, POLAJNAR, Andrej, LEBER, Marjan, BUCHMEISTER, Borut. Navidezna resničnost - simulirno orodje prihodnosti = Virtual reality - simulation tool of the future. Stroj. vestn., 1998, let. 44, št. 5/6, str. 187-194. [COBISS.SI-ID 2631963]
6.	BUCHMEISTER, Borut, LEBER, Marjan, PAVLINJEK, Jože. Impact of periodic changing demand to supply chain inventories. Mech. Eng. Sci. J. (Skopje), 2007, vol. 26, no. 2, str. 79-86. [COBISS.SI-ID 12189974]
7.	LEBER, Marjan, POLAJNAR, Andrej, BUCHMEISTER, Borut. Successful FMEA study based on QFD analysis. Acta Mech. Slovaca (Košice), 2002, ročnik 6, 2, str. 187-190. [COBISS.SI-ID 7165206]
8.	POLAJNAR, Andrej, BUCHMEISTER, Borut, LEBER, Marjan. Simulationsvergleich von Modellen für die Layoutplannung. E I, Elektrotech. Inf.tech., 111 (1994), 6 ; str. 277-279. [COBISS.SI-ID 6328580]
9.	LEBER, Marjan, POLAJNAR, Andrej, BUCHMEISTER, Borut. Qualitätssicherung der Produktionsplannung durch Anwendung der Fehlermöglichkeits- und Einflussanalyse. E I, Elektrotech. Inf.tech., 111 (1994), 6 ; str. 324-327. [COBISS.SI-ID 6328836]
10.	FULDER, Tatjana, PIŽMOHT, Petja, POLAJNAR, Andrej, LEBER, Marjan. Ergonomically designed workstation based on simulation of worker's movements. Int. j. simul. model., Mar. 2005, vol. 4, no. 1, str. 27-34. [COBISS.SI-ID 9448214]

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

Quotation total :	0			
Total of SCI(SSCI) list papers :	5			
Current projects :	Domestic :	0	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.	Vukmirović S., Erdeljan A., Čapko D., Lendak I., Nedić N. (2011), „Optimization of workflow scheduling in Utility Management System with hierarchical neural network“, International Journal of Computational Intelligence Systems, 2011, vol 4 (4), pp. 672-679.
3.	Lendak I., Ivancevic N., Vukmirovic S., Varga E., Nenadic K. & Erdeljan A. (2012), “Client Side Internet Technologies in Critical Infrastructure Systems”, International Journal of Computers, Communications & Control (IJCCC), 2012, vol 7 (5), pp. 878-890.
4.	Vukmirovic S., Erdeljan A., Lendak I. & Capko D. (2012), „Unifying the Common Information Model (CIM)“, Revue Roumaine des Sciences Techniques-Serie Electrotechnique et Energetique, 2012, vol 57 (3), pp. 301-310.
5.	Vukmirovic S., Erdeljan A., Lendak I. & Capko D. (2012), “Optimal Workflow Scheduling in Critical Infrastructure Systems with Neural Networks”, Journal of Applied Research and Technology, 2012, vol 10 (2), pp. 114-121.
6.	Čapko D., Erdeljan A., Vukmirović S. & Lendak I. (2011), „A Hybrid Genetic Algorithm for Partitioning of Data Model in Distribution Management Systems“, Information Technology and Control, 2011, vol 40 (4), pp. 316-322.
7.	Vukmirović S., Erdeljan A., Lendak I. & Čapko D. (2011), „Extension of the Common Information Model with Virtual Meter“, Electronics and electrical engineering, ISSN 1392 – 1215, 2011, vol 1 (111), pp. 59-64.
8.	Vukmirović S., Erdeljan A., Lendak I. & Čapko D. (2010), „A novel software architecture for smart metering systems“, Journal of Scientific & Industrial Research, December 2010, vol 69, pp. 937-941.
9.	Nedić N., Vukmirović S., Erdeljan A., Lendak I. & Čapko D. (2010), „A genetic algorithm approach for utility management system workflow scheduling“, Information technology and control, 2010, vol 39 (4), pp. 310-319.
10.	Erdeljan A., Lendak I., Vukmirović S. & Čapko D. (2007), „Otvorena softverska arhitektura za modeliranje, simulaciju i upravljanje distributivnim vodovodnim sistemima“, Vodoprivreda, 2007, ISSN 0350-0519, vol 229-230, pp. 291-302.

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:	Lončarević M. Ivana
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.06.2004
Scientific or art field:	Physics

Academic carieer	Year	Institution	Field
Academic title election:	2010		Physics
PhD thesis	2010	Faculty of Physics - Beograd	Physical Science
Magister thesis	2008	Faculty of Physics - Beograd	Physical Science
Bachelor's thesis	2003	Faculty of Sciences - Novi Sad	Physical Science

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

	ID	Course name	Study programme name, study type
1.	E103	Physics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	EOS06	Physics	(E01) Power Engineering - Renewble Sources of Electrical Energy, Undergraduate Professional Studies
3.	GG06	Civil Engineering Physics	(G00) Civil Engineering, Undergraduate Academic Studies
4.	H101	Physics	(F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (H00) Mechatronics, Undergraduate Academic Studies
5.	IAFI01	Colors and Light	(F10) Engineering Animation, Undergraduate Academic Studies
6.	M101	Technical Physics	(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 (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
7.	ETI06	Physics	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
8.	ZC008	Technical physics	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Budinski-Petković Lj., Lončarević I., Petkovic M., Jaksic Z., Vrhovac S.: Percolation in random sequential adsorption of extended objects on a triangular lattice, Physical Review E, 2012, Vol. 85, No 061117, pp. 1-8
2. Budinski-Petković Lj., Lončarević I., Jakšić Z., Vrhovac S., Švrakić N.: Simulation study of anisotropic random sequential adsorption of extended objects on a triangular lattice, Physical Review E, 2011, Vol. 84, No 5, pp. 5160-1
3. Šćepanović J., Lončarević I., Budinski-Petković Lj., Jakšić Z., Vrhovac S.: Relaxation properties in a diffusive model of k-mers with constrained movements on a triangular lattice, Physical Review E, 2011, Vol. 84, No 031109, pp. 1-13
4. Lončarević I., Budinski-Petković Lj., Vrhovac S., Belić A.: Generalized random sequential adsorption of polydisperse mixtures on a one-dimensional lattice, Journal of Statistical Mechanics: Theory and Experiment, 2010, ISSN 1742-5468
5. Lončarević I., Budinski-Petković Lj., Vrhovac Lj., Belić A.: Adsorption, desorption, and diffusion of k-mers on a one-dimensional lattice, Physical Review E, 2009, Vol. 80, No 2
6. Budinski-Petković Lj., Vrhovac S., Lončarević I.: Random sequential adsorption of polydisperse mixtures on discrete substrates , Physical Review E, 2008, Vol. 78, No 061603, pp. 1-7
7. Lončarević I., Budinski-Petković Lj., Vrhovac S.: Simulation study of random sequential adsorption of mixtures on a triangular lattice , The European Physical Journal E, 2007, Vol. 24, pp. 19-26, ISSN 1292-8941

Representative refferences (minimum 5, not more than 10)	
8.	Lončarević I., Budinski-Petković Lj., Vrhovac S.: Reversible random sequential adsorption of mixtures on a triangular lattice , Physical Review E, 2007, Vol. 76, No 031104, pp. 1-9
9.	Lončarević I.: Irreversible deposition of extended objects with diffusional relaxation on discrete substrates, The European Physical Journal B, 2010, No 73, pp. 439-445
10.	Satarić M., Kozmidis-Luburić U., Budinski-Petković Lj., Lončarević I.: Intrinsic Electric Fields as a Control mechanism of Infracellular Transport along Microtubules, Journal of Computational and Theoretical Nanoscience, 2009, Vol. 6, pp. 721-731, ISSN 1546-1955

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	0			
Total of SCI(SSCI) list papers :	12			
Current projects :	Domestic :	1	International :	0

Science, arts and professional qualifications

Name and last name:	Lošonc N. Alpar
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.01.1989
Scientific or art field:	Economics

Academic carieer	Year	Institution	Field
Academic title election:	2005	Faculty of Technical Sciences - Novi Sad	Economics
PhD thesis	1993	Faculty of Economics - Subotica	Economics
Magister thesis	1988	Faculty of Law - Novi Sad	Economic Science
Bachelor's thesis	1981	Faculty of Law - Novi Sad	Legal Science

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

	ID	Course name	Study programme name, study type
1.	M317	Economy	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
2.	S002A	Economics	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
3.	A206	Sociology and Economy of the Built Enviroment	(A00) Architecture, Undergraduate Academic Studies
4.	ASI321	Economics in culture and art	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
5.	IM1004	Principles of economics	(I20) Engineering Management, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
6.	A005S	Urban sociology and economics: selected chapters	(A00) Architecture, Specialised Academic Studies
7.	MBA303	Economics for Managers	(IB0) Engineering Management - MBA, Specialised Professional Studies
8.	MBA307	European and international business and trade law	(IB0) Engineering Management - MBA, Specialised Professional Studies
9.	MBA521	The European Union-development process	(I20) Engineering Management, Specialised Professional Studies (IB0) Engineering Management - MBA, Specialised Professional Studies
10.	Z513A	Economics and the environmental protection	(Z20) Environmental Engineering, Master Academic Studies
11.	RPR006	Economics of Regional Development	(RPR) Regional Development Planning and Management, Master Academic Studies
12.	Z513	Ekonomija i zaštita životne sredine(uneti naziv na engleskom)	(Z20) Environmental Engineering, Master Academic Studies
13.	ZRMI3A	Sociological and Legal Aspects of Occupational Safety	(Z01) Safety at Work, Master Academic Studies
14.	A005	Urban Sociology and Economics – Selected Chapters	(A00) Architecture, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Suffitientia Ecologica, Novi Sad, Stylos, 2005
2. Moderna na Kolonu, Vreme knjige, Beograd, 1997
3. Principi ekonomije, koautor, 2003, Stylos, Novi Sad
4. Kosta Josifidis, Alpar Lošonc. Novica Supić, Eseji o državi blagostanja, Futura publikacije, Novi Sad, 2009, ISBN 978-86+7188-119-7
5. Kosta Josifidis, Alpar Lošonc, Neoliberalizam, sudbina ili izbor, Novi Sad, Futura, 2007, ISBN 978-86-85699-03-0
6. A. Lošonc, S. Mitrović, A. Ivanišević, Praktikum iz principa ekonomije, Fakultet tehničkih nauka, Novi Sad, 2008
7. Suverenitet, moć i kriza, Svetovi, Novi Sad, 2006, 392. str., Cobiss. SR-ID 216449031.
8. A. Lošonc, A. Ivanišević, S. Mitrović, Globalizacija – rešenja i dileme, Fakultet tehničkih nauka, Novi Sad, 2008
9. Alpar Lošonc, Andrea Ivanišević, Slavica Mitrović, Strukturalna kriza: forme i uzroci, FTN, Novi Sad, 2012

Representative refferences (minimum 5, not more than 10)	
10.	•Alpar Lošonc,Radoš Radivojević, Tijana Vučević, Socio-Ekonomska Odredjenost Znanja i Protivrečnosti Statusa Znanja,Tehnologija Informatika i Obrazovanje za Društvo Učenja Znanja, Fakultet Tehničkih Nauka, Novi Sad, 2009. ISBN 978-86-7447-083-1 (IPI), COBISS-SR-ID 243356167,str 165-179

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	38			
Total of SCI(SSCI) list papers :	7			
Current projects :	Domestic :	1	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:	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:	Marić B. Branislav
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.10.2009
Scientific or art field:	Production Systems, Organization and Management

Academic carieer	Year	Institution	Field
Academic title election:	2011	Faculty of Technical Sciences - Novi Sad	Production Systems, Organization and Management
PhD thesis	1995	Faculty of Technical Sciences "Mihajlo Pupin" in Zrenjanin - Zrenjanin	Organization Science
Magister thesis	1992	Faculty of Technical Sciences - Novi Sad	Organization Science
Bachelor's thesis	1977	Faculty of Technical Sciences - Novi Sad	Organization Science

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

	ID	Course name	Study programme name, study type
1.	I914	Project Management	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
2.	M317	Economy	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
3.	II121	Principles of economics	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
4.	IM1014	Company Economics	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
5.	IM1027	Production systems	(I20) Engineering Management, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
6.	IM1102	Investment Management	(I20) Engineering Management, Undergraduate Academic Studies
7.	IM1419	Strategic resource allocation and planning	(I20) Engineering Management, Undergraduate Academic Studies
8.	IMDS63	Intelligent Organisation	(I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies
9.	IMDS88	Planning and implementing cost structure of the investment cycle	(I22) Engineering Management, Specialised Academic Studies
10.	MBA303	Economics for Managers	(IB0) Engineering Management - MBA, Specialised Professional Studies
11.	LIM33	Logistic Economics	(LIM) Logistic Engineering and Management, Master Academic Studies
12.	IM2102	Manufacturing strategy (KAIZEN, LEAN, KANBAN, EFPS)	(I10) Industrial Engineering, Master Academic Studies (M50) Energy Management, Master Academic Studies (I20) Engineering Management, Master Academic Studies
13.	IM2103	New technologies in engineering and management	(I10) Industrial Engineering, Master Academic Studies (I20) Engineering Management, Master Academic Studies
14.	IM2122	The rating company profitability	(I20) Engineering Management, Master Academic Studies
15.	IM2414	Technical Analyses and the Trading Systems	(I20) Engineering Management, Master Academic Studies
16.	IM2418	Support to management decision making	(I20) Engineering Management, Master Academic Studies
17.	IM2424	Investment management	(M50) Energy Management, Master Academic Studies
18.	IM2425	Economics of the Firm	(M50) Energy Management, Master Academic Studies
19.	IMDR63	Intelligent Organisation	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies

Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES — Geodesy and Geomatics

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

	ID	Course name	Study programme name, study type
20.	IMDR88	Planning and implementing cost structure of the investment cycle	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Kiurski J., Marić B., Adamović D., Mihailović A., Grujić S., Oros I., Krstić J.: Register of hazardous materials in printing industry as a tool for sustainable development management, Renewable and Sustainable Energy Reviews, 2012, Vol. 16, No 1, pp. 660-667, ISSN 1364-0321, UDK: doi:10.1016/j.rser.2011.08.030
2.	Marić B., Dobromirov D., Radišić M.: Researching the dependence between the dynamic indicators of investment profitability, African Journal of Business Management, 2011, Vol. 5, No 13, pp. 5076-5082, ISSN 1993-8233
3.	Radišić M., Marić B., Dobromirov D.: SMEs and entrepreneurs investments' profitability effects within the transition period in the Republic of Serbia, African Journal of Business Management, 2011, Vol. 5, No 7, pp. 2654-2659, ISSN 1993-8233
4.	Marić B., Demko-Rihter J., Mitrović V., Rovčanin M.: Functional correlations between the efficiency indicators of investments, African Journal of Business Management, 2011, Vol. 5, No 7, pp. 2979-2984, ISSN 1993-8233
5.	Marić B., Kamberović B., Radlovački V., Delić M., Zubanov V.: Observing the dependence between dynamic indicators of investment profitability - Relative net present value and internal rate of return, African Journal of Business Management, 2011, Vol. 5, No 26, pp. 331-337, ISSN 1993-8233
6.	Marić B., Ivanišević A., Mitrović S., Sreto A., Mihailo R.: Analysis of internal rate of return on investments: Dynamic and static approach, African Journal of Business Management, 2011, Vol. 5, No 8, pp. 3269-3273, ISSN 1993-8233
7.	Organizacija preduzeća, Fakultet za preduzetni menadžment, Novi Sad, 2006.
8.	Upravljanje projektima, Fakultet za preduzetni menadžment, Novi Sad, 2000.
9.	Upravljanje investicijama, Fakultet tehničkih nauka, 2010.
10.	Osnove organizacije rada, Fakultet tehničkih nauka, 1982.

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

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

Science, arts and professional qualifications

Name and last name:	Marković -. Milan
Academic title:	Guest Professor
Name of the institution where the teacher works full time and starting date:	-
Scientific or art field:	Computer Science

Academic carieer	Year	Institution	Field
Academic title election:			

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

	ID	Course name	Study programme name, study type
1.	E233	Internet Networks	(E20) Computing and Control Engineering, 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 (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	F501	WEB Design	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies
3.	ISIT28	Informaciona bezbednost	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
4.	BMI95	Introduction to Computer Science	(BM0) Biomedical Engineering, Undergraduate Academic Studies
5.	SE0001	Introduction to Programming	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (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
6.	SE0011	Introduction to Software Engineering	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
7.	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
8.	SE0024	Software Construction and Testing	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
9.	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

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

	ID	Course name	Study programme name, study type
10.	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
11.	SEM009	Identity Management	(SE0) Software Engineering and Information Technologies, Master Academic Studies
12.	SEM017	Information Security	(SE0) Software Engineering and Information Technologies, Master Academic Studies

Representative refferences (minimum 5, not more than 10)

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

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

Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES — Geodesy and Geomatics

Science, arts and professional qualifications

Name and last name:	Mihajlov N. Anđelka
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	-
Scientific or art field:	Environment Protection Engineering

Academic carieer	Year	Institution	Field
Academic title election:	2006	Faculty of Technical Sciences - Novi Sad	Environment Protection Engineering
PhD thesis	1984	Faculty of Technology and Metallurgy - Beograd	Technological Engineering
Magister thesis	1977	Faculty of Technology and Metallurgy - Beograd	Technological Engineering
Bachelor's thesis	1974	Faculty of Technology and Metallurgy - Beograd	Technological Engineering

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

	ID	Course name	Study programme name, study type
1.	E0S42	Renewable sources and environmental protection	(E01) Power Engineering - Renewble Sources of Electrical Energy, Undergraduate Professional Studies
2.	Z105	Energy and Environment	(Z20) Environmental Engineering, Undergraduate Academic Studies
3.	Z105A	Energy and the environment	(Z01) Safety at Work, Undergraduate Academic Studies
4.	Z204A	Monitoring of the Living Environment	(Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
5.	Z205	Sustainable Use of Natural Resources and Environmental Protection System	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
6.	Z309A	Solid Waste Management	(Z01) Safety at Work, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
7.	Z401A	Design and Planning in Environmental Protection	(Z20) Environmental Engineering, Undergraduate Academic Studies
8.	Z401B	Design and Planning in Environmental Engineering	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
9.	Z409A	Hazardous Waste Management and Recycling Technologies	(Z20) Environmental Engineering, Undergraduate Academic Studies
10.	Z309A	Upravljanje čvrstim otpadom(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
11.	M3202	Identification and reduction of pollution from industry	(M30) Energy and Process Engineering, Undergraduate Academic Studies
12.	MPK012	Solid waste management	(MPK) Inženjerstvo tretmana i zaštite voda - TEMPUS(uneti naziv na engledskom), Master Academic Studies
13.	SZD052	Resource-Efficient and Low-Carbon Development	(Z00) Environmental Engineering, Specialised Academic Studies
14.	ZD052	Efficient Use of Natural Resources and Low-Carbon Development	(Z00) Environmental Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Odrzivi razvoj i zivotna sredina ka Evropi u 95+ koraka, monografija (pomocni udzbenicki materijal), PKS/Ambasadori zivotne sredine, na srpskom (2005), Canada Fund na engleskom (2006)
2. Mihajlov A., Opportunities and challanges for sustainable energy policy in SE European Energy Community Treaty, Renewable and Sustainable Energy Reviews, 14 (2010), pp. 872-875
3. B.Djordjevic, A.Mihajlov, D.Grozdanic, A.Tasic, A.Horvath, Applicability of Redlich-Kwong equation of state and its modifications to polar gases, Chem. Eng.Science, 32, 1103-1107 (1977)
4. B.Djordjevic, A.Mihajlov, A.Tasic, Calculation of heat capacities of gaseous carbonmonoxide by modified RK equation of state, Chem.Eng.Science, 35, 752-753 (1980)

Representative refferences (minimum 5, not more than 10)

5.	B.Djordjevic, A.Mihajlov, A.Tasic, Correlation of Second virial coefficients of polar gases by RK equation of state, AIChE Journal (American Institute of Chemical Engineers Journal), 26(5), 858-862 (1980)
6.	R.Paunovic, S.Jovanovic, A.Mihajlov, Rapid computation of binary interaction coefficients of an equation of state for vapor-liquid equilibrium calculations. Application to the RK-Soave Equation of state, Fluid Phase Equilibria, 6, 141-148 (1981)
7.	A.Mihajlov: A Treaty for a Southeast European Energy Community , p.73-78, u: Stephen Stec, Besnik Baraj, Edited: Energy and Environmental Challenges to Security, Springer, 2008, ISBN ISBN-10: 1402094523
8.	D.Prokic, A.Mihajlov, “Contaminated sites: solid waste management practice in developing country (Serbia)”, Environment Protection Engineering, 2012, Vol. 38, No.1, pp 81-90
9.	Lj.Fišang, M.Đurić, R.Marinković-Nedučin, J.Ranogajec, A.Mihajlov, An optimization of fly ash quantity in cement binding, Cement and Concrete Research, 25(7), 1430-1490
10.	Mihajlov, Andjelka (2012) Needs for Tailored Knowledge and Skill-Based Education for Sustainable Development: Balkan Environment Life Leadership Standards Courses. In Leal Filho, W. (Ed) Sustainable Development at Universities: New Horizons. Peter Lang Scientific Publishers, Frankfurt am Main, Berlin, Bern, Brussels, New York, Oxford, Vienna 994 pp, ISBN 978-3-631-62560-6

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

Quotation total :	43			
Total of SCI(SSCI) list papers :	28			
Current projects :	Domestic :	1	International :	2

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

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:	Milosavljević P. Branko
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.10.1998
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	1999	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Bachelor's thesis	1997	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.	E2E40	XML and WEB Services	(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.	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.	F209	Multimedia	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
4.	F214I2	Raster Graphics	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
5.	GI100	Computer Practicum	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
6.	RI41	Internet Software Architectures	(E20) Computing and Control Engineering, Undergraduate Academic Studies
7.	SEI41	Internet Software Architectures	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
8.	ISIT03	Introduction to Programming	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
9.	ISIT08	Object oriented programming fundamentals	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
10.	ISIT22	Osnove baza podataka	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
11.	ISIT28	Informaciona bezbednost	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
12.	ISIT29	XML Technologies	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
13.	BMI95	Introduction to Computer Science	(BM0) Biomedical Engineering, Undergraduate Academic Studies
14.	EIWDS	Web-based Measurement and Data Acquisition Systems	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (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
15.	SE0001	Introduction to Programming	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (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
16.	E2506	Advanced Internet Infrastructure	(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
17.	F402	Electronic Publishing	(F00) Graphic Engineering and Design, Master Academic Studies
18.	E2521	Business Process Management	(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
19.	E2526	Service Oriented Architectures	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
20.	DE417	Web-based Measurement Systems	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
21.	DRNI02	Selected Topics in Advanced Software Architecture	(E20) Computing and Control Engineering, Doctoral Academic Studies
22.	DRNI03	Selected Topics in Internet-Based Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies
23.	DRNI06	Selected Topics in Digital Archives	(E20) Computing and Control Engineering, Doctoral Academic Studies
24.	FDS151	Selected Chapters in Multimedia	(F00) Graphic Engineering and Design, Doctoral Academic Studies
25.	FDS152	Selected Topics in Computer Graphics	(F00) Graphic Engineering and Design, Doctoral Academic Studies
26.	FDS224	Selected Chapters in Programming	(F00) Graphic Engineering and Design, Doctoral Academic Studies
27.	DRNI19	Selected Topics in Information Security	(E20) Computing and Control Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Branko Milosavljević. Models for Extensible Multimedia Document Retrieval. In IEEE 6th International Symposium on Multimedia Software Engineering, Miami, FL, 2004.
2. Branko Milosavljević, Milan Vidaković, Srđan Komazec, and Gordana Milosavljević. User Interface Code Generation for Data-Intensive Applications with EJB-Based Data Models. In Software Engineering Research and Practice (SERP"03), Las Vegas, NV 2003.
3. Branko Milosavljević and Zora Konjović. Design of an XML-Based Extensible Multimedia Information Retrieval System. In IEEE Multimedia Software Engineering (MSE2002), Newport Beach, CA, 2002. pp. 114-121.
4. G. Sladić, B. Milosavljević, Z. Konjović. Extensible Access Control Model for XML Document Collections, Intl. Conf. on Security and Cryptography ICETE-SECRYPT"07, Barcelona, Spain, 2007.
5. Branko Milosavljević, Milan Vidaković, and Zora Konjović. Automatic code generation for database-oriented web applications. In James Power and John Waldron, editors, Recent Advances in Java Technology: Theory, Application, Implementation, pages 89-98. Trinity College Dublin, 2003.

Representative refferences (minimum 5, not more than 10)	
6.	Danijela Tešendić, Branko Milosavljević, and Dušan Surla. A library circulation system for city and special libraries. The Electronic Library, 27(1):162-186, 2009. ISSN: 0264-0473, DOI: 10.1108/02640470910934669.
7.	Jelena Radjenović, Branko Milosavljević, and Dušan Surla. Modelling and implementation of catalogue cards using FreeMarker. Program: electronic library and information systems, 43(1):62-76, 2009. ISSN: 0033-0337, DOI: 10.1108/00330330910934110.
8.	Milan Vidaković, Branko Milosavljević, Zora Konjović, and Goran Sladić. Extensible Java EE-based agent framework and its application on distributed library catalogues. Computer Science and Information Systems (ComSIS), 6(2):1-28, 2009. ISSN: 1820-0214, DOI: 10.2298/csis0902001V.
9.	Aleksandar Kovačević, Branko Milosavljević, Zora Konjović, and Milan Vidaković. Adaptive content-based music retrieval system. Multimedia Tools and Applications, 47(3):525-544, 2010. ISSN: 1380-7501, DOI: 10.1007/s11042-009-0336-2.
10.	Bojana Dimić, Branko Milosavljević, and Dušan Surla. XML schema for UNIMARC and MARC 21. The Electronic Library, 28(2):245-262, 2010. ISSN: 0264-0473, DOI: 10.1108/02640471011033611.

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	0			
Total of SCI(SSCI) list papers :	15			
Current projects :	Domestic :	2	International :	1

Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES — Geodesy and Geomatics

Science, arts and professional qualifications

Name and last name:	Milutin N. Darko
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.10.2007
Scientific or art field:	Hydrotechnics

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Hydrotechnics
PhD thesis	1998	Faculty of Civil Engineering - Beograd	Hydrotechnics
Bachelor's thesis	1988	Faculty of Civil Engineering - Beograd	Hydrotechnics
Magister thesis	-		Hydrotechnics

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

	ID	Course name	Study programme name, study type
1.	GG18	Fundamentals in Hydromechanics and Hydrotechnics	(G00) Civil Engineering, Undergraduate Academic Studies
2.	GG301	Hydrotechnical Facilities and Systems	(G00) Civil Engineering, Undergraduate Academic Studies
3.	GH502	Hydrology with Hydrometry	(G00) Civil Engineering, Undergraduate Academic Studies
4.	GI021	Structure Value Assessment	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
5.	URZP16	Climatology	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
6.	URZP48	Fundamentals of Climatology and Hydrology	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
7.	URZP57	Natural Hazards	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
8.	URZP59	Flood Defense Measures	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
9.	GH505	Framework Directives E3 (WDF)	(G00) Civil Engineering, Master Academic Studies
10.	MPK004	Fundamentals of Hydromechanics and hydrotechinc	(MPK) Inženjerstvo tretmana i zaštite voda - TEMPUS(uneti naziv na engledskom), Master Academic Studies
11.	MPK022	hydrometric	(MPK) Inženjerstvo tretmana i zaštite voda - TEMPUS(uneti naziv na engledskom), Master Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Milutin D., and J.J. Bogardi, On Two Decomposition Schemes for Optimization of Multiple-Reservoir Systems, abstract, Annales Geophysicae, Part II: Oceans, Atmosphere, Hydrology & Nonlinear Geophysics, , XX General Assembly of European Geophysical Society, Hmburg, Germany, Suppl. II to Vol. 13, EGS, p. C462, 1995
2. Bogardi, J.J. and D. Milutin, Sequential Decomposition in the Assessment of Long Term Operation of Large Scale Systems, in S.P. Simonovic, Z. Kundzewicz, D. Rosbjerg and K. Takeuchi (eds.), Modelling and Management of Sustainable Basin Scale Water Resource Systems, Proceedings of an international symposium held during the XXI General Assembly of the International Union of Geodesy and Geophysics, Boulder, Colorado, IAHS Publ. No. 231, 233 240, 1995.
3. Milutin, D. and J.J. Bogardi, Performance Criteria for Multiunit Reservoir Operation and Water Allocation Problems, Presented at the Third IHP/IAHS George Kovacs Colloquium: Risk, Reliability, Uncertainty and Robustness of Water Resources Systems, UNESCO, Paris, 19 21 September 1996. To appear in International Hydrology Series, Cambridge University Press, eds: J.J. Bogardi and Z.W. Kundzewicz (under publication).
4. Prohaska, S. and D. Milutin, Matimaticeskaya model prognozirovaniya sostoyanii vodohranilisc v realnom vremeni (Mathematical Model for the Real Time Forecasting of Inflows to a System of Hydropower Plants), Proceedings of the XV Conference of the Danube Countries on Hydrologic Forecasting, Varna, Bulgaria, 1990 (in Russian).
5. Milutin, D. and J.J. Bogardi, Reliability Criteria in the Assessment of a Multiple Reservoir Operational Strategy Under Mediterranean Conditions, Proceedings of the European Symposium on Water Resources Management in the Mediterranean Under Drought or Water Shortage Conditions: Economic, Technical, Environmental and Social Issues (Nicosia, Cyprus), Balkema, Rotterdam, The Netherlands, 265 271, 1995
6. Milutin, D., Interactive Water Resources Management Support System for Tunisia, a poster presented at The Forum of the UNESCO International School for Scienece for Peace on “Water Security in the Third Millennium: Mediterranean Countries towards a Regional Vision”, Como, Italy, 1999
7. Louati, M.E.H. and D. Milutin, Joint Operation of a Multiple Reservoir – Interbasin Water Transfer System: The Tunisian Case Study, presented at The Second World Water Forum (Session: Water-Use Management), The Hague, The Netherlands, March 17, 2000.

Representative refferences (minimum 5, not more than 10)

8.	Bogardi, J.J.K.M., B.A.H.V. Brorens, M.D.U.P. Kularathna, D. Milutin and K.D.W. Nandalal, Long Term Assessment of a Multi Unit Reservoir System Operation: The ShellDP Program Package Manual, Report Series, Report 59, Department of Water Resources, Wageningen Agricultural University, The Netherlands, 272pp, 1995.
9.	Bogardi, J.J., D. Milutin, M.E.H. Louati and G. Keser, The Performance of a Long Term Operational Policy of Multi Unit Reservoir Systems Under Drought Conditions, Proceedings of the VIII IWRA World Congress: Satisfying Future National and Global Demands, Cairo, Egypt, 1994.

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

Quotation total :	15			
Total of SCI(SSCI) list papers :	0			
Current projects :	Domestic :	2	International :	5

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:	Navalušić V. Slobodan
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:	Machine Elements,Construction Principles, Machine and Mechanizm

Academic carieer	Year	Institution	Field
Academic title election:	2006	Faculty of Technical Sciences - Novi Sad	Machine Elements,Construction Principles, Machine and Mechanizm Theory, Power and Motion Transfer and Eng.Communication
PhD thesis	1996	Faculty of Technical Sciences - Novi Sad	Machine Elements,Construction Principles, Machine and Mechanizm Theory, Power and Motion Transfer and Eng.Communication
Magister thesis	1986	Faculty of Technical Sciences - Novi Sad	Machine Elements,Construction Principles, Machine and Mechanizm Theory, Power and Motion Transfer and Eng.Communication
Bachelor's thesis	1975	Faculty of Technical Sciences - Novi Sad	Thermal Energetics and Thermotechnics

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

	ID	Course name	Study programme name, study type
1.	A555	Perspective	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
2.	EOS03	Fundamentals in Mechanical Engineering(Machine elements and Materials)	(E01) Power Engineering - Renewble Sources of Electrical Energy, Undergraduate Professional Studies
3.	F202	Fundamentals in Mechanical Engineering	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
4.	GG03	Descriptive Geometry	(G00) Civil Engineering, Undergraduate Academic Studies
5.	GI104	Descriptive Geometry in Geomatics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
6.	M108	Engineering Graphic Communications	(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.	M2610	Graphic Communications and CAD	(H00) Mechatronics, Undergraduate Academic Studies
8.	S012	Descriptive Geometry and Engineering Drawing	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
9.	IA013	Interactive Engineering Graphics	(F10) Engineering Animation, Undergraduate Academic Studies
10.	ASO5	Descriptive Geometry with Perspective 1	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
11.	ASO9	Descriptive Geometry with Perspective 2	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
12.	ZC007	Engineering Graphic Communications	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
13.	M2511	Methodology of Design	(M22) Mechanization and Construction Engineering, Master Academic Studies
14.	M2655	Maintenance of Agricultural Machinery	(M22) Mechanization and Construction Engineering, Master Academic Studies
15.	AD0013	Theory of curves and surfaces	(AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, Master Academic Studies
16.	DM213	Contemporary Methods of Designing and Machine Constructing	(M00) Mechanical Engineering, Doctoral Academic Studies
17.	DM409	Selected Chapter in Power and Motion Transmission	(M00) Mechanical Engineering, Doctoral Academic Studies
18.	AID04	Haptic devices usage in the virtual environment	(F20) Engineering Animation, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Milojević, Z., Navalušić, S., Zeljković, M.: " NC VERIFICATION AS A COMPONENT OF VIRTUAL MANUFACTURING", Academic Journal of Manufacturing Engineering, Vol. 5, No 2-2007., Editura Politehnica, žtimisoara, Romania, pp: 48-54, 2007. ISSN: 1583-7904
2.	Milojević, Z., Navalušić, S., Zeljković, M.: " DEVELOPMENT OF THE MODULE FOR REAL'TIME VERIFICATION OF NC MACHINING PROGRAM", Journal Manufacturing Engineering Manufacturing Accuracy Increasing problems, Wroclaw, 2007
3.	Milojević, Z., Navalušić, S., Zeljković, M.: " AN EXACT APPROACH TO 3-AXIS MILLING NC SIMULATION AND VERIFICATION", Journal Manufacturing Engineering Vol.3, No.5, Kosicah, 2006., pp. 14-17
4.	Milojević, Z., Navalušić, S., Zeljković, M:" DEVELOPMENT OF THE MODULE FOR VERIFICATION OF NC MACHINING PROGRAM ", Journal of Machine Engineering, Vol.5 No. 1-2, Intelligent Machines and factories, Wroclaw, 2005. god., pp. 177-185
5.	Zeljković, M., Zeljković, Ž., Navalušić, S., Milojević, Z.:" SOFTWARE SOLUTION DEVELOPMENT FOR THE GRINDING WHEEL PROFILING CYCLE ON THE CNC GRINDING MACHINE", Journal of Machine Engineering, Vol.4 No. 1-2, Machine tools and factories of the knowledge, Wroclaw, 2004. god., pp. 254-262
6.	Desnica E., Letić D., Gligorić R., Navalušić S.: Implementation of information technologies in higher technical education, Metalurgia international, 2012, Vol. 17, No 3, pp. 76-82, ISSN 1582-2214
7.	Milojević Z., Navalušić S., Milankov M., Obradović R., Harhaji V., Desnica E.: System for femoral tunnel position determination based on the X - ray , HealthMED, 2011, Vol. 5, No 4, pp. 894-900, ISSN 1840-2991
8.	Desnica E., Letić D., Navalušić S.: Concept of distance learning model in graphic communication teaching at university level education, Technics Technologies Education Management, 2010, Vol. 5, No 2, pp. 378-388, ISSN 1840-1503
9.	Milojević Z., Navalušić S., Milankov M., Obradović R., Desnica E., Harhaji V.: Methodology for 3D femur approximate model generation, HealthMED, 2011, Vol. 5, No 5, pp. 1211-1217, ISSN 1840-2991
10.	Navalušić, S., R. Gatalo, M. Zeljković: Automated Gearbox Design Based on Principles of Expert System Building, JSPE Publication Series No.1, Advancement of Intelligent Production, edited by Eiji Usui, Elsevier Science B. V., Amsterdam - Lausanne - New York - Oxford - Shannon - Tokyo, 1994, pp. 45-50

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

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

Science, arts and professional qualifications

Name and last name:	Ninkov Đ. Toša
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	15.02.1994
Scientific or art field:	Geodesy

Academic carieer	Year	Institution	Field
Academic title election:	2002	Faculty of Technical Sciences - Novi Sad	Geodesy
PhD thesis	1982	Faculty of Civil Engineering - Beograd	Geodesy
Magister thesis	1979	Faculty of Civil Engineering - Beograd	Geodesy
Bachelor's thesis	1972	Faculty of Civil Engineering - Beograd	Geodesy

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

	ID	Course name	Study programme name, study type
1.	GI019	Bathymetry	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
2.	GI025B	Geodetic Metrology	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
3.	GI029	Utility Information Systems and their Application	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	GI307A	Engineering Geodesy	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
5.	GI402	Engineering Geodesy 2	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
6.	GI505	Advanced Techniques in Geodetic Design and Monitoring	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
7.	GI009	Introduction to deformation measurement and analysis	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
8.	GH507	Engineering Geodesy	(G00) Civil Engineering, Master Academic Studies
9.	GI403	Methods for Precise Geodetic Measurements and Data Processing	(GI0) Geodesy and Geomatics, Master Academic Studies
10.	GI514	Engineering Geodesy 3	(GI0) Geodesy and Geomatics, Master Academic Studies
11.	GI518	Geodesy in City Planning	(GI0) Geodesy and Geomatics, Master Academic Studies
12.	GI601	Geodynamics	(GI0) Geodesy and Geomatics, Master Academic Studies
13.	URZP65	Geodetic methods for the determination of geodynamic movements	(ZP1) Disaster Risk Management and Fire Safety, Master Academic Studies
14.	GS005	Contemporary recording methods of energy losses of buildings	(G10) Energy Efficiency in Buildings, Specialised Academic Studies
15.	GI516	Deformation analysis and measurements	(GI0) Geodesy and Geomatics, Master Academic Studies
16.	GI531	Application of GNSS systems	(GI0) Geodesy and Geomatics, Master Academic Studies
17.	GI540	Valuation of real estate	(GI0) Geodesy and Geomatics, Master Academic Studies
18.	GIAU02	Position Based Services	(E20) Computing and Control Engineering, Master Academic Studies
19.	SDGI02	Selected topics in engineering geodesy	(GI0) Geodesy and Geomatics, Specialised Academic Studies
20.	SDGI06	Selected Chapters in Real Estate Cadastre	(GI0) Geodesy and Geomatics, Specialised Academic Studies
21.	SDGI10	Selected Chapters in Landscape Arrangement	(GI0) Geodesy and Geomatics, Specialised Academic Studies
22.	SDGI11	Selected topics in deformation measurements and analysis	(GI0) Geodesy and Geomatics, Specialised Academic Studies
23.	SDGI14	Selected topics in geodetic networks and their optimization	(GI0) Geodesy and Geomatics, Specialised Academic Studies
24.	SDGI5D	Selected Chapters in the Mass Appraisal of Real Estate	(GI0) Geodesy and Geomatics, Specialised Academic Studies
25.	SDGI6A	Selected Chapters in Appraisal	(GI0) Geodesy and Geomatics, Specialised Academic Studies
26.	DGI002	Selected Chapters in Engineering Geodesy	(GI0) Geodesy and Geomatics, Doctoral Academic Studies

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

	ID	Course name	Study programme name, study type
27.	DGI006	Selected Chapters in Real Estate Cadastre	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
28.	DGI009	Selected Chapters in GNSS Systems	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
29.	DGI010	Selected Chapters in Landscape Arrangement	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
30.	DGI011	Selected Chapters in Deformation Analysis and Measurements	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
31.	DGI014	Selected Chapters in Geodesic Networks and Their Optimization	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
32.	DGI019	Selected Chapters in Municipal Information Systems	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
33.	DGI012	Selected topics in integrated systems of surveying	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
34.	DGI015	Selected topics in geophysics	(GI0) Geodesy and Geomatics, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Ninkov, T. (1988): "Optimizacija projektovanja geodetskih mreža" Naučna knjiga, Gradjevinski fakultet, Beograd 1989
2. Ninkov, T. (1982): "A new method of land Surveying networks optimization". Meating of Study Eroup 5 B. Survey Control Networks; Alborg, edited by K. Borre i W.M. Welsch Rep 7 Schriftenreiche Wissenschaftlicher Studiengang Wermessungswesen der Hochschule der Bundeswehr Munchen, pp. 293-300.
3. Bulatović V., Sušić Z., Ninkov T.: Estimate of the ASTER-GDEM regional systematic errors and their removal, INT J REMOTE SENS, 2012, Vol. 33, No 18, pp. 5915-5926, ISSN 0143-1161
4. Tosa Ninkov, Miro Govedarica, Milan Trifkovic: One Method of Renewal of Stereographics Survey Data in Coka Municipality, Geodetski list: glasilo Hrvatskoga geodetskog društva. 68(88), (2011), 4; (IF 2010 0.038)
5. Govedarica Miro, Boskovic Dubravka, Petrovacki Dusan, Ninkov Tosa: Metadata Catalogues in Spatial Information Systems (Review) GEODETSKI LIST, (2010), vol. 64 br. 4, str. 313-334 (IF 2009 0.167)
6. Vladimir Bulatović, Toša Ninkov, Zoran Sušić: Open Geospatial Consortium Web Services Complex Distribution Systems, Geodetski list, (2009), br 1, str.13-29, (IF 2009 0.167)
7. Jasmina Nedeljković Ostojić, Miro Govedarica, Toša Ninkov: Analysis of Structure Surveying Method by 3D Laser Scanners Geodetski list:glasilo Hrvatskoga geodetskog društva 65(88), (2011), 1; (IF 2010 0.038)
8. Bulatović V., Ninkov T., Malenković V., Vulić M.: Contemporary Methods of Determining Energy Losses in Structures, TTEM. Tehnics tehnologies education management, 2012, Vol. 7, No 2, pp. 687-692, ISSN 1840-1503
9. - Projekat informacionog sistema postojeće kanalizacione mreže Beograda i 3D modela sadržaja na fizičkoj površini zemlje koristeći GPS merenja, satelitski snimak sistema IKONOS i postojecu dokumentaciju (Beograd 2006)
10. - GIS projekat Naftnog i gasnog distributivnog sistema QGPC-a (Qatar General Petroleum Corporation)1999-2000 Šef projekta za GIS

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

Quotation total :	86			
Total of SCI(SSCI) list papers :	5			
Current projects :	Domestic :	3	International :	2

Science, arts and professional qualifications

Name and last name:	Okanović Đ. Dušan
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:	2012	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	2012	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
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.	E233	Internet Networks	(E20) Computing and Control Engineering, 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 (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	ISIT23	Web Programming	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
3.	ISIT30	Business process management systems	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
4.	ISIT34	Identity Management	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
5.	ISIT36	Software Development Tools	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
6.	ISIT43	Configuration and Administration of Computer Systems	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
7.	ISIT45	eTrade and eBanking technologies and systems	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
8.	SE0024	Software Construction and Testing	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
9.	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
10.	EP007	Document and content management	(I20) Engineering Management, Specialised Professional Studies (IB0) Engineering Management - MBA, Specialised Professional Studies
11.	AD0008	Web design in Architecture	(AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, Master Academic Studies
12.	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

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

	ID	Course name	Study programme name, study type
13.	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.	Okanović D., van Hoorn A., Konjović Z., Vidaković M.: SLA-Driven Adaptive Monitoring of Distributed Applications for Performance Problem Localization, Computer Science and Information Systems (ComSIS), 2012, ISSN 1820-0214
2.	Dušan Okanović, Zora Konjović, Automatska inicijalizacija klasa iz XML datoteke, Zbornik radova YU INFO 2005 (CD), Kopaonik 2005.
3.	Dušan Okanović, Milan Vidaković, Upotreba JMX MLet servisa za ažuriranje verzija Java aplikacija, Zbornik radova YU INFO 2007 (CD), Kopaonik 2007.
4.	Đorđe Obradović, Milan Vidaković, Zora Konjović, Dušan Okanović, "Generator ekranskih formi za JBoss Seam bazirane aplikacije", Zbornik radova YU INFO 2008 (CD), Kopaonik 2008.
5.	Dušan Okanović, Milan Vidaković, "Primena jBPM okruženja u implementaciji eUprave", Zbornik radova YU INFO 2009 (CD), Kopaonik 2009.
6.	Valentin Penca, Siniša Nikolić, Dušan Okanović, "Detekcija Skype saobraćaja sistemom za detekciju upada u mrežu Snort", Zbornik radova YU INFO 2009 (CD), Kopaonik 2009.
7.	Okanović D., Vidaković M.: Software Performance Prediction Using Linear Regression, 2. International Conference on Information Society Technology and Management, Kopaonik, 29 mart-3 februar, 2012
8.	Okanović D., van Hoorn A., Konjović Z., Vidaković M.: Towards Adaptive Monitoring of Java EE Applications, 5. International Conference on Information Technology - ICIT, Amman, 11-13 Maj, 2011, ISBN 9957-8583-0-0
9.	Okanović D., Konjović Z., Vidaković M.: Continuous Monitoring System for Software Quality Assurance, 15. International Scientific Conference on Industrial Systems - IS, Novi Sad, 14-16 Septembar, 2011
10.	Okanović D., Vidaković M.: One Implementation of The System for Application Version Tracking and Automatic Updating, Proceedings of the IASTED International Conference on Software Engineering - SE 2007, Innsbruck, 12-14 februar 2008.

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:	Pantović B. Jovanka
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	13.06.1993
Scientific or art field:	Mathematics

Academic carieer	Year	Institution	Field
Academic title election:	2010		Mathematics
PhD thesis	2000	Faculty of Sciences - Novi Sad	Mathematical Sciences
Magister thesis	1996	Faculty of Sciences - Novi Sad	Mathematical Sciences
Bachelor's thesis	1991	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.	E145	Operations Research	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, 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.	GI101	Algebra	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
5.	H203	Mathematics 3	(H00) Mechatronics, Undergraduate Academic Studies
6.	IAM002	Discrete and Combinatorial Methods for Computer Graphics	(F10) Engineering Animation, Undergraduate Academic Studies
7.	S053N	Operations research	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
8.	0M512	Models of Computation	(OM1) Mathematics in Engineering, Master Academic Studies
9.	0ML512	Models of Computation	(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.	D0M08	Applied Abstract Algebra	(OM1) Mathematics in Engineering, Doctoral Academic Studies
12.	D0M13	Theory of Mobile Processes	(OM1) Mathematics in Engineering, Doctoral Academic Studies
13.	D0M14	Process Algebra	(OM1) Mathematics in Engineering, Doctoral Academic Studies
14.	D0M22	Multiple-Valued Logic	(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.	D0M23	Clone Theory	(OM1) Mathematics in Engineering, 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
17.	AID05	Theory of Mobile Processes	(F20) Engineering Animation, Doctoral Academic Studies
18.	AID06	Graph theory	(F20) Engineering Animation, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Gilezan S., Pantović J., Žunić J.: Partitioning Finite d-Dimensional Integer Grids with Applications, chapter in: Approximation Algorithms and Metaheuristics (editor: T. F. Gonzalez)., Chapman
2. Ghilezan S., Pantović J., Žunić J.,Separating points by parallel hyperplanes - characteization problem, IEEE Transactions on Neural Networks, 2007, Vol. 18, No. 5, 1356-1363.
3. Mariangiola Dezani-Ciancaglini, Silvia Ghilezan, Jovanka Pantovic, Daniele Varacca: Security types for dynamic web data. Theor. Comput. Sci, 2008, 402(2-3): 156-171
4. Pantović J., Vojvodić D., On the cardinality of nonfinitely based functionally complete algebras, Algebra Universalis, Vol. 43, No. 4, 2000, 369-374.
5. Pantović J., Tošić R., Vojvodić G., The cardinality of functionally complete algebras on a three element set, Algebra Universalis, Vol. 38, No.2, 1997, 136-140.
6. Pantović J., Machida H., Rosenberg I.: Regular sets of operations, Journal of Multiple Valued Logic and Soft Computing, 2012, Vol. 19, No 1-3, pp. 149-162, ISSN 1542-3980
7. Machida H., Pantović J.: Three classes of maximal hyperclones, Journal of Multiple Valued Logic and Soft Computing, 2012, Vol. 18, No 2, pp. 201-210, ISSN 1542-3980
8. Pantović J., Machida H.: Maximal hyperclones on E2 as hypercores , Journal of Multiple Valued Logic and Soft Computing, 2009, pp. 1-13, ISSN 1542-3980
9. Pantović J., Tošić R., Vojvodić G., Relative completeness with respect to two unary functions, Discrete Applied Mathematics, Vol.113 (2-3), 2001, 337-342.
10. Marinagiola Dezani-Ciancaglini, Silvia Ghilezan, Jovanka Pantović, Security types for dynamic web data, Proceedings of Trustworthy Global Computing, Lecture Notes in Computer Science, 2007, Vol. 4661, str. 263-280.

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

Quotation total :	30			
Total of SCI(SSCI) list papers :	13			
Current projects :	Domestic :	2	International :	3

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:	Petrovački Lj. Nebojša
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	-
Scientific or art field:	Automatic Control and System Engineering

Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
PhD thesis	2008	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Magister thesis	2005	University of California, Los Angeles - Los Angeles	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.	E226	Automatic Control Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (H00) Mechatronics, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
2.	E238A	Control Systems Technology	(BM0) Biomedical Engineering, Undergraduate Academic Studies (E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
3.	M3408	Automatic Control Systems	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
4.	BMI125	Biological Control Systems	(BM0) Biomedical Engineering, Undergraduate Academic Studies
5.	EMSAU 1	Automatic Control Systems in Electronics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	GG226	Automatic control systems in geomatics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
7.	GG99	Geospatial technologies - basics	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
8.	M3409	Automatic control systems	(M30) Energy and Process Engineering, Undergraduate Academic Studies
9.	AU509	Nonlinear Control Systems	(E20) Computing and Control Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies
10.	GIAU01	Geosensor networks	(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
11.	M3417	Applied industrial automatization	(M30) Energy and Process Engineering, Master Academic Studies
12.	DGI018	Selected Chapters of Automatic Control Systems	(GI0) Geodesy and Geomatics, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	2.Zoran D. Jeličić, Nebojša Petrovački: Optimality Conditions and a Solution Scheme For Fractional Optimal Control Problems, accepted for publication on July 29th, 2008 in Journal of Structural And Multidisciplinary Optimization, Springer, Berlin-Heidelberg
2.	1.Nebojša Petrovački: Identifikacija, simulacija i upravljanje klasom EDFA pojačavača, Doktorska disertacija, Fakultet tehničkih nauka u Novom Sadu, Novi Sad, decembar 2008. godine.

Representative refferences (minimum 5, not more than 10)	
3.	3.Zoran D. Jeličić, Nebojša Petrovački: On The Fractional Order Model of EDFA With ASE, in The Proceedings of IEEE Conference on Numerical Simulation of Optical Devices, University of Nottingham, Great Britain, September 2008.
4.	4.Zoran D. Jeličić, Nebojša Petrovački: Fractional Derivative Model of Erbium-Doped Fiber Amplifiers With Asynchronous Spontaneous Emission, in Book of Abstracts of 2007 SIAM Conference on Control and Its Applications, June 29th - July 1st, 2007, San Francisco, California
5.	5.Nebojša Petrovački, Zoran D. Jeličić: Specific Optimal Control of Erbium-Doped Fiber Amplifiers, in The Proceedings of IFAC Workshop: Technology Transfer In Developing Countries: Automation in Infrastructure Creation, May 17-18, 2007 Izmir-Cesme, Turkey
6.	6.Nebojša Petrovački, Zoran D. Jeličić: Modeling, Simulation, And Control of Erbium-Doped Fiber Amplifiers, in The Proceedings of 7th Portuguese Conference on Automatic Control, Lisbon, Portugal, September 11-13th 2006
7.	7.Nebojša Petrovački, Zoran D. Jeličić: Optimal Transient Response of Erbium-Doped Fiber Amplifiers, in The Proceedings of The 6th IEEE International Conference on Numerical Simulation of Optoelectronic Devices, Nanyang Technological University, Singapore, September 11-14th 2006
8.	8.Nebojša Petrovački: Stationary Simulation of The Gas Pipeline Using Neural Networks - Case Study of Vojvodina, in The Proceedings of The 10th World Multi-Conference on Systemics, Cybernetics and Informatics: WMSCI 2006, July 16-19, 2006, Orlando, Florida (co-chair of the session)
9.	9.Nebojša Petrovački: Erbium-Doped Fiber Amplifiers, invited talk at Department of Electrical and Computer Engineering of University of California, San Diego, April 14th, 2006.
10.	11.Nebojša Petrovački: Gain Regulation In Erbium-Doped Fiber Amplifiers, in The Proceedings of The IEEE EUROCON 2005: The International Conference on Computer As A Tool, November 21-24, 2005, Belgrade, Serbia

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

Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES — Geodesy and Geomatics

Science, arts and professional qualifications

Name and last name:	Pribičević I. Boško
Academic title:	Guest Professor
Name of the institution where the teacher works full time and starting date:	-
Scientific or art field:	Geodesy

Academic carieer	Year	Institution	Field
Academic title election:	2010		Geodesy
PhD thesis	2000		Geodesy
Magister thesis	1999		Geodesy
Bachelor's thesis	1986		Geodesy

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

	ID	Course name	Study programme name, study type
1.	E241	Geospatial Technologies	(E20) Computing and Control Engineering, Undergraduate Academic Studies
2.	GI003	Geospatial Data Infrastructure	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
3.	GI014	Celestial Mechanics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	GI016	Physical Geodesy	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
5.	GI020	Laser Scanning of Terrain and Objects	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
6.	GI504	Advanced Techniques of Laser Scanning	(GI0) Geodesy and Geomatics, Master Academic Studies
7.	SDGI08	Selected topics in laser scanning	(GI0) Geodesy and Geomatics, Specialised Academic Studies
8.	DGI006	Selected Chapters in Real Estate Cadastre	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
9.	DGI010	Selected Chapters in Landscape Arrangement	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
10.	DGI011	Selected Chapters in Deformation Analysis and Measurements	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
11.	DGI012	Selected topics in integrated systems of surveying	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
12.	DGI015	Selected topics in geophysics	(GI0) Geodesy and Geomatics, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Precise geodetic and hydrographic measurements in karst areas. Reports on Geodesy. 2(83) (2007) ; 63-68 . article
2.	Research on the International Geodynamic Test-Area Plitvice Lakes within CERGOP-2 Project.. Reports on Geodesy.Warsaw University of Technology, Institute of Geodesy and Geodetic Astronomy. 79 (2006) , 4; 165-172
3.	Application of geographical information systems and hydrographic surveying in the international geodynamic test area Plitvice Lakes. Reports on Geodesy. 79 (2006) , 4; 181-186
4.	Five years of EUREF-permanent GPS-stations in Croatia. Reports on Geodesy. 76 (2006) , 1; 91-98
5.	Geodesy, tectonics and geodyinamics of Dinnarides. REPORTS ON GEODESY 76 (2006) , 1; 85-90
6.	Determination of the recent structural fabric in the Alps-Dinarides area by combination of geodetic and geologic methods. Raziskave s področja geodezije in geofizike 2002. Ljubljana : Fakulteta za gradbeništvo in geodezijo, Univerza v Ljubljani, 2002. 57-65
7.	Medak Damir; Pribičević Boško; Krivoruchko Konstantin: Geostatistička analiza batimetrijskih mjerenja na primjeru jezera Kozjak Geodetski list : glasilo Hrvatskoga geodetskog društva 62(85), (2008), 3; 131-142
8.	Pribičević Boško; Medak Damir; Đapo Almin: Progušćenje točaka Geodinamičke mreže Grada Zagreba u podsljemenskoj zoni. Geodetski list. 61(84), (2007), 4; 247-258
9.	Using Trimble Scanning Technologies when Improving Technical Documentation of an Oil/Gas Facility, Las Vegas, Trimble Dimensions, 2009.
10.	Application of Terrestrial Laser Scanning in Advanced Construction Survey, SPAR Conference, Houston, 05.03.2009.

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

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

Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES — Geodesy and Geomatics

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:	Rapaić R. Milan
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.12.2006
Scientific or art field:	Automatic Control and System Engineering

Academic carieer	Year	Institution	Field
Academic title election:	2011	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
Master's thesis	2006	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.	AU41	Digital Control Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	E237	Optimization Methods	(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.	E237A	Optimization Methods	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	GI005	Intelligent Control Systems	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
5.	H1405	Optimization Methods	(H00) Mechatronics, Undergraduate Academic Studies
6.	H302	Control Systems 2	(H00) Mechatronics, Undergraduate Academic Studies
7.	BM118A	Nonlinear programming and optimal control	(BM0) Biomedical Engineering, Undergraduate Academic Studies
8.	BM130A	Digital control systems in bioengineering	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	E2316	Real-time control systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies
10.	SEAU01	Nonlinear programming and evolutionary computations	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
11.	SEAU03	Real-time control algorithms	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
12.	AU511	Adaptive and Advanced Control	(E20) Computing and Control Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies
13.	A118S	Contemporrary technologies applied to architecture and urbanism	(A00) Architecture, Specialised Academic Studies
14.	AT03	Optimization and control techniques in architectural design	(AH0) Architecture, Master Academic Studies
15.	AT04	Contemporary theories and technologies applied to architecture, urbanism and design 1	(AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, Master Academic Studies (AH0) Architecture, Master Academic Studies
16.	AT05	Contemporary theories and technologies applied to architecture, urbanism and design 2	(AH0) Architecture, Master Academic Studies
17.	DAU010	Selected Chapters in Nonlinear Control Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
18.	A118	Contemporary technologies applied to architecture and urbanism	(A00) Architecture, Doctoral Academic Studies

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

	ID	Course name	Study programme name, study type
19.	DAU005	Selected Chapters in Optimization Methods	(E20) Computing and Control Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Milan R. Rapaić, "Optimalno i suboptimalno upravljanje klasom sistema sa raspodeljenim parametrima", doktorska disertacija, FTN Novi Sad, 2011
2.	Milena Petković, Milan R. Rapaić, Zoran D. Jeličić, Alessandro Pisano (2012) On-line adaptive clustering for process monitoring and fault detection, Expert Systems with Applications, Volume 39 Issue 11, September, 2012 Pages 10226-10235
3.	Milan R. Rapaić, Zoran D. Jeličić, Optimal control of heat diffusion systems, Nonlinear Dynamics, Vol 62, Number 1-2, 39-51, 2010
4.	Alessandro Pisano, Milan R. Rapaić, Zoran D. Jeličić, Elio Usai, Sliding mode control approaches to robust regulation of linear multivariable fractional-order dynamics, International Journal of Robust and Nonlinear Control, Volume 20, Issue 18, pages 2045–2056
5.	Željko Kanović, Milan Rapaić, Zoran Jeličić, Generalized Particle Swarm Optimization Algorithm - Theoretical and Empirical Analysis with Application in Fault Detection, Applied Mathematics and Computation (in press, doi:10.1016/j.amc.2011.05.013)
6.	Milan R. Rapaic, Zeljko Kanovic, Time-Varying PSO - Convergence Analysis, Convergence Related Parameterization and New Parameter Adjustment Schemes, Information Processing Letters , 109 (2009) 548–552
7.	Milan R. Rapaić, Tomislav B. Šekara, Novel direct optimal and indirect method for discretization of linear fractional systems, Electrical Engineering, DOI: 10.1007/s00202-011-0195-5
8.	Jovan K. Popović, Milica T. Atanacković, Ana S. Pilipović, Milan R. Rapaić, Teodor M. Atanacković, Stevan Pilipović, A new approach to the compartmental analysis in pharmacokinetics: fractional time evolution of diclofenac, Journal of Pharmacokinetics and Pharmacodynamics, Vol. 37, No. 2, (2010) 119-134
9.	Jovan K. Popović, Milica T. Atanacković, Ana S. Pilipović, Milan R. Rapaić, Teodor M. Atanacković, Stevan Pilipović, Remarks on the mass balance for multi-compartmental models; a nonlinear compartmental model, Journal of Pharmacokinetics and Pharmacodynamics, Vol. 37, No. 2 (2010) 217-220
10.	Jovan K. Popović, Diana Dolićanin, Milan R. Rapaić, Stevan L. Popović, Stevan Pilipović, Teodor Atanacković, A nonlinear two compartmental fractional derivative model, European Journal of Drug Metabolism and Pharmacokinetics, (in press: DOI 10.1007/s13318-011-0057-6)

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

Quotation total :	85			
Total of SCI(SSCI) list papers :	11			
Current projects :	Domestic :	0	International :	0

Science, arts and professional qualifications

Name and last name:	Ristić V. Aleksandar
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.02.2000
Scientific or art field:	Automatic Control and System Engineering

Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
PhD thesis	2009	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Magister thesis	2001	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Bachelor's thesis	1999	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.	E226	Automatic Control Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (H00) Mechatronics, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
2.	GI014	Celestial Mechanics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
3.	GI016	Physical Geodesy	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	GI025B	Geodetic Metrology	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
5.	GI404A	Digital Terrain Models	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
6.	GI409A	Underground Infrastructure Detection	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
7.	M3408	Automatic Control Systems	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
8.	BM119A	The application of geoinformation technologies and systems in medicine	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	GG226	Automatic control systems in geomatics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
10.	GG99	Geospatial technologies - basics	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
11.	M3409	Automatic control systems	(M30) Energy and Process Engineering, Undergraduate Academic Studies
12.	ZC037	Automation applied in the industry and buildings	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
13.	GI600	Applied Geophysics in Geomatics	(GI0) Geodesy and Geomatics, Master Academic Studies
14.	GI532	Advanced Remote Sensing Technologies	(GI0) Geodesy and Geomatics, Master Academic Studies
15.	GI537	Geosensor networks	(GI0) Geodesy and Geomatics, Master Academic Studies
16.	M3417	Applied industrial automatization	(M30) Energy and Process Engineering, Master Academic Studies
17.	SDGI01	Selected topics in geoinformation systems	(GI0) Geodesy and Geomatics, Specialised Academic Studies
18.	SDGI04	Selected Chapters in Underground Infrastructure Detection	(GI0) Geodesy and Geomatics, Specialised Academic Studies
19.	SDGI13	Selected topics in spatial data infrastructure	(GI0) Geodesy and Geomatics, Specialised Academic Studies
20.	DGI001	Selected Chapters in Geoinformation Systems	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
21.	DGI004	Selected Chapters in Underground Infrastructure Utility Detection	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
22.	DGI006	Selected Chapters in Real Estate Cadastre	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
23.	DGI009	Selected Chapters in GNSS Systems	(GI0) Geodesy and Geomatics, Doctoral Academic Studies

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

	ID	Course name	Study programme name, study type
24.	DGI010	Selected Chapters in Landscape Arrangement	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
25.	DGI016	Selected Chapters in Systems and Signals	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
26.	DGI018	Selected Chapters of Automatic Control Systems	(GI0) Geodesy and Geomatics, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Aleksandar Ristić, Dušan Petrovački, Miro Govedarica: A New Method to Simultaneously Estimate the Radius of a Cylindrical Object and the Wave Propagation Velocity from GPR Data, Computers & Geosciences, 2009, Vol. 35, Broj 8, str. 1620-1630, ISSN 0098-3004, (IF2010 1.416)
2.	Govedarica Miro, Boskovic Dubravka, Petrovacki Dusan, Ninkov Tosa, Ristic Aleksandar: Metadata Catalogues in Spatial Information Systems (Review), GEODETSKI LIST, (2010), vol. 64 br. 4, str. 313-334 (IF 2009 0.167)
3.	Aleksandar Ristić, Biljana Abolmasov, Miro Govedarica, Dušan Petrovački, Aleksandra Ristić: Shallow-landslide spatial structure interpretation using a multi-geophysical approach, Acta geotechnica slovenica, (2012), vol. 9, issue 1, pp 46-59, (IF 2011, 0.100)
4.	Miro Govedarica, Dušan Petrovački, Dubravka Sladić, Aleksandra Ristić, Dušan Jovanović, Vladimir Pajić, Milan Vrtunski, Aleksandar Ristic: ENVIRONMENTAL DATA IN SERBIAN SPATIAL DATA INFRASTRUCTURE - GEOPORTAL OF ECOLOGY, Journal of Environmental Protection and Ecology JEPE 2011 (IF 2010 0.178)
5.	Ristić Aleksandar, Govedarica Miro, Petrovački Dušan: GNSS status and perspective, Časopis za procesnu tehniku i energetiku u poljoprivredi (PTEP) 2010, ISSN: 1821-4487, Vol. 14, No. 1, Str. 6-10, UDK 63:004(497.11)
6.	Ristić Aleksandar, Petrovački Dušan, Govedarica Miro: Radar Remote Sensing Technologies - the Usage in Agriculture, Časopis za procesnu tehniku i energetiku u poljoprivredi (PTEP) 2010, ISSN: 1821-4487, Vol. 14, No. 2, Str. 76-80, UDK 621.396.96(075.8)
7.	Ristić A., Petrovački D., Govedarica M., Popov S.: Detekcija podzemnih voda i tokova Georadarom, Vodoprivreda, 2007, Vol. 39, Broj 229-230, str. 344-349, ISSN 0350-0519, UDK: 551.491.5
8.	Ristić A., Petrovački D., Govedarica M. : Flooding bank structure modelling using GPR, GNSS and airborne laser scanning technologies, 3. The International Symposium on Global Navigation Satellite Systems, Space-Based and Ground-Based Augmentation Systems and Applications, Berlin: Senate Department for Urban Development Berlin, 30-2 Novembar, 2009, str. 99-103, ISBN 978-3-938373-93-4
9.	Ristić A., Govedarica M., Petrovački D. : Landslide analysis using GPR, GNSS and terrestrial laser scanning technologies, 3. The International Symposium on Global Navigation Satellite Systems, Space- Based and Ground-Based Augmentation Systems and Applications, Berlin: Senate Department for Urban Development Berlin, 30-2 Novembar, 2009, str. 90-94, ISBN 978-3-938373-93-4
10.	Govedarica M., Petrovački D., Ristić A:GNSS - Based Ground Penetration Radar Applications, 2. The International Symposium on Global Navigation Satellite Systems, Space-Based and Ground-Based Augmentation Systems and Applications, Berlin: Senate Department for Urban Development Berlin, EUPOS ISC, UN OOSA, ICG, 11-14 Novembar, 2008, str. 93-94

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

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

Science, arts and professional qualifications

Name and last name:	Simeunović V. Nenad
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	15.02.2001
Scientific or art field:	Production Systems, Organization and Management

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Production Systems, Organization and Management
PhD thesis	2012	Faculty of Technical Sciences - Novi Sad	Production Systems, Organization and Management
Magister thesis	2006	Faculty of Technical Sciences - Novi Sad	Production Systems, Organization and Management
Bachelor's thesis	1999	Faculty of Technical Sciences - Novi Sad	Material Binding Technologies

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

	ID	Course name	Study programme name, study type
1.	I914	Project Management	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
2.	II1006	Processing Technology Products	(I10) Industrial Engineering, Undergraduate Academic Studies
3.	IM1016	Production and Service Technologies	(I20) Engineering Management, Undergraduate Academic Studies
4.	IM1039	Fundamentals of Operations management	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
5.	IM1103	Services Engineering	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
6.	IM1116	Work Study and Ergonomics	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
7.	IM1312	Tools and Techniques of Project Management	(I20) Engineering Management, Undergraduate Academic Studies
8.	IM1318	Managing Relationships with Stakeholders	(I20) Engineering Management, Undergraduate Academic Studies
9.	IM1321	Management of the Project Team	(I20) Engineering Management, Undergraduate Academic Studies
10.	IM2123	Operations management	(M50) Energy Management, Master Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
11.	ZR401A	Science on Work	(Z01) Safety at Work, Undergraduate Academic Studies
12.	PLM05	Management of PLM Projects	(I1U) Industrial Engineering - Product Lifecycle Management and Development, Master Academic Studies
13.	PLM06	Technologies for Disposal at the Products End-Of-Life	(I1U) Industrial Engineering - Product Lifecycle Management and Development, Master Academic Studies
14.	IM2123	Operations management	(M50) Energy Management, Master Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
15.	IM2322	Event Management	(OM1) Mathematics in Engineering, Master Academic Studies (I20) Engineering Management, Master Academic Studies

Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES — Geodesy and Geomatics

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

	ID	Course name	Study programme name, study type
16.	UP003	Organization of Events	(I20) Engineering Management, Specialised Professional Studies (IB0) Engineering Management - MBA, Specialised Professional Studies

Representative refferences (minimum 5, not more than 10)

1.	Vukelić Đ., Ostojić G., Stankovski S., Lazarević M., Tadić B., Hodolič J., Simeunović N.: Machining fixture assembly/disassembly in RFID environment, Assembly Automation, 2011, Vol. 31, No 1, pp. 62-68, ISSN0144-5154
2.	Simeunović N., Ćosić I., Radaković N., Lalić B.: The General Work Procedure Model for the Service Product, Beč, DAAAM International Scientific Book, 2009, str. 281-288, ISBN 987-3-901509-71-1 , UDK: ISSN1726-9687
3.	Ćosić, I.; Radaković, N.; Simeunović, N: THE SERVICE PRODUCT PLANNING WORK PLAN ANALYSIS, XIV međunarodna konferencija INDUSTRIJSKI SISTEMI IS 2008, Novi Sad: FTN GRID Novi Sad, 02.-03. oktobar, 2008,
4.	Radaković, N., Simeunović, N., Dakić, R., Pantelić, I. »Sličnosti i razlike u procesima proizvodnje i pružanja usluga« XIII međunarodna konferencija INDUSTRIJSKI SISTEMI IS 2005, Herceg Novi, 2005.
5.	Ćosić, I.; Radaković, N.; Simeunović, N.; Lalić, B.: Creating the Service Product by Applying the General Work Procedure Model, Annals of DAAAM for 2008 & Proceedings of the 19th International DAAAM Symposium, Vienna, Austria: DAAAM International, 22.-25. October, 2008, str. pp 153- UDK: ISSN1726-9679 , ISBN ISBN 978-3-901509-68.
6.	Vukelić, Đ., Vrečič, T., Hodolič, J., Simeunović, N., Križan, P.: A system for manufacturing process statistical quality control, 12 th International Scientific Conference MECHANICAL ENGINEERING 2008, Bratislava: The Faculty of Mechanical Engineering, 13. - 14. November, 2008, str. CD- ROM, ISBN 978-80-227-2987-1.
7.	Hodolič J., Ćosić I., Budak I., Matin I., Simeunović N., Hadžistević M., Vukelić Đ., Antić A., Bešić I.: Baza podataka sa softverskom aplikacijom kao podrška platformi za kontinualnu edukaciju FTN-a, 2010
8.	Simeunović N., Budak I., Ćosić I., Hodolič J.: Razvoj novog pristupa u organizaciji kontinualnog obrazovanja, 17. Skup "Trendovi razvoja" - TREND, Kopaonik: Fakultet tehničkih nauka u Novom Sadu, 7-10 Mart, 2011, pp. 257-260, ISBN 978-86-7892-323-4
9.	Simeunović N.: Istraživanje uslova za primenu metoda i tehnika operacionog menadžmenta u uslužnim sistemima, Novi Sad, FTN Novi Sad, 2012
10.	Razvoj opšteg modela postupaka rada za različite vrste proizvoda

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

Quotation total :	4			
Total of SCI(SSCI) list papers :	1			
Current projects :	Domestic :	2	International :	2

Science, arts and professional qualifications

Name and last name:	Sladoje Matić I. Nataša
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	14.03.1994
Scientific or art field:	Mathematics

Academic carieer	Year	Institution	Field
Academic title election:	2011		Mathematics
PhD thesis	2005	University of Novi Sad - Novi Sad	Mathematical Sciences
Magister thesis	1998	Faculty of Sciences - Novi Sad	Mathematical Sciences
Bachelor's thesis	1992	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.	A101	Mathematics	(A00) Architecture, Undergraduate Academic Studies
2.	E135B	Mathematical Analysis 2	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
3.	GI107	Mathematical Analysis 1	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	IAM001	Mathematical Shape Modeling for Computer Animation	(F10) Engineering Animation, Undergraduate Academic Studies
5.	IAM004	Geometry of Discrete Space	(F10) Engineering Animation, Undergraduate Academic Studies
6.	IGA008	Mathematics for Engineering Graphics	(F10) Engineering Animation, Undergraduate Academic Studies
7.	BMI91	Mathematics 1	(BM0) Biomedical Engineering, Undergraduate Academic Studies
8.	BMI92	Mathematics 2	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	E101A	Discrete Mathematics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate 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.	Z506	20BAdvanced Course in Mathematics 1	(ZP1) Disaster Risk Management and Fire Safety, Master Academic Studies (Z20) Environmental Engineering, Master Academic Studies
12.	IA018	Computer Geometry	(F20) Engineering Animation, Master Academic Studies
13.	D0M28	Digital Geometry	(OM1) Mathematics in Engineering, Doctoral Academic Studies
14.	D0M29	Image Processing 1	(OM1) Mathematics in Engineering, Doctoral Academic Studies
15.	D0M30	Image Processing 2	(OM1) Mathematics in Engineering, Doctoral Academic Studies
16.	D0M31	Applied Algorithms	(OM1) Mathematics in Engineering, Doctoral Academic Studies
17.	D0M32	Combinatorial and Geometric Algorithms	(OM1) Mathematics in Engineering, Doctoral Academic Studies
18.	D0M33	Positional Games	(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
19.	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
20.	AID07	Digital geometry	(F20) Engineering Animation, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Sladoje N., Lindblad J., Nystrom I.: Defuzzification of spatial fuzzy sets by feature distance minimization. , Image and Vision Computing, 2011, Vol. 29, No 2-3, pp. 127-141, ISSN 0262-8856
2.	Lukić T., Lindblad J., Sladoje N.: Regularized Image Denoising Based on Spectral Gradient Optimization, Inverse Problems, 2011, Vol. 27, No 8, pp. 8501-1, ISSN 0266-5611
3.	Sladoje N., Lindblad J.: High precision boundary length estimation by utilizing grey-level information , IEEE Transactions on Pattern Analysis and Machine Intelligence, 2009, Vol. 31, No 2, pp. 357-363, ISSN 0162-8828
4.	N. Sladoje and J. Lindblad, "Representation and Reconstruction of Fuzzy Disks by Moments", Fuzzy Sets and Systems, Vol. 158, No. 5, pp. 517-534, 2007.<\eng>
5.	N. Sladoje, I. Nyström, and P.K. Saha, "Measurements of digitized objects with fuzzy borders in 2D and 3D", Image and Vision Computing, vol. 23, pp 123-132, 2005.<\eng>
6.	J. Zunic and N. Sladoje, "Efficiency of Characterizing Ellipses and Ellipsoids by Discrete Moments", IEEE Trans. Pattern Analysis and Machine Intelligence, vol.22, No.4, pp 407-414, 2000.<\eng>
7.	J. Chanussot, I. Nyström and N. Sladoje, "Shape signatures of fuzzy star-shaped sets based on distance from the centroid", Pattern Recognition Letters, vol. 26(6), pp. 735-746, 2005.<\eng>
8.	Ćurić,V., Lindblad, J., Sladoje, N., Sarve, H., Borgefors, B. A new set distance and its application to shape registration. Accepted for Pattern Analysis and Applications, 2012.
9.	Lindblad L., Sladoje N. Coverage Segmentation based on Linear Unmixing and Minimization of Perimeter and Boundary Thickness. Pattern Recognition Letters, Vol. 33, No.6, pp. 728-738, 2012.
10.	Malmberg F., Lindblad J., Sladoje N., Nystrom I.: A graph-based framework for sub-pixel image segmentation, Theoretical Computer Science, 2011, Vol. 412, No 15, pp. 1338-1349

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

Quotation total :	71			
Total of SCI(SSCI) list papers :	21			
Current projects :	Domestic :	2	International :	3

Science, arts and professional qualifications

Name and last name:	Stojaković Z. Vesna
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.06.2005
Scientific or art field:	Geometric Space Theory and Interpretation in Architecture and Urbanism

Academic carieer	Year	Institution	Field
Academic title election:	2011		Geometric Space Theory and Interpretation in Architecture and Urbanism
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Architecture
Bachelor's thesis	2004	Faculty of Technical Sciences - Novi Sad	Architecture
Magister thesis	-		Architecture

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

	ID	Course name	Study programme name, study type
1.	A555	Perspective	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
2.	GG03	Descriptive Geometry	(G00) Civil Engineering, Undergraduate Academic Studies
3.	IA017	Image Based Modeling	(F10) Engineering Animation, Undergraduate Academic Studies
4.	IGA003	Computer Image Processing in Engineering Animation	(F10) Engineering Animation, Undergraduate Academic Studies
5.	Z418	Geometry of Eco-spatial Visualization	(Z20) Environmental Engineering, Undergraduate Academic Studies
6.	IA006	Spatial Shape Design	(F10) Engineering Animation, Undergraduate Academic Studies
7.	IA007	Geometry and Visualization of 3D Space	(F10) Engineering Animation, Undergraduate Academic Studies
8.	A210	Art techniques of drawing and architectural presentations	(A00) Architecture, Undergraduate Academic Studies
9.	A210S	Art techniques of drawing and architectural presentations	(A00) Architecture, Undergraduate Academic Studies
10.	A342	Architectural representations 1 - basic level	(A00) Architecture, Undergraduate Academic Studies
11.	A342S	Architectural representations 1 - Advanced level	(A00) Architecture, Undergraduate Academic Studies
12.	A377	Architectural representations 3	(A00) Architecture, Undergraduate Academic Studies
13.	A555	Perspective	(A00) Architecture, Undergraduate Academic Studies
14.	IA003	Perspective	(F10) Engineering Animation, Undergraduate Academic Studies
15.	ZC007	Engineering Graphic Communications	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
16.	A291	Representation of a Wider Physical Environment	(AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, Master Academic Studies
17.	IA254	Presentation Techniques of Architectural and Urban Space	(F20) Engineering Animation, Master Academic Studies
18.	A116DS	Modern techniques of the geometric space representation	(A00) Architecture, Specialised Academic Studies (GI0) Geodesy and Geomatics, Specialised Academic Studies
19.	A118SB	Geometric theories in architectural structures' generation	(A00) Architecture, Specialised Academic Studies
20.	AD0001	Digital Design in Architecture and Urban Planning	(AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, Master Academic Studies
21.	AD0002	Architectural Visualization	(AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, Master Academic Studies
22.	AD0004	Generative design in architecture and urbanism	(AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, Master Academic Studies
23.	AD0011	Modeling Based on Perspective Images	(AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, Master Academic Studies
24.	AD0012	Dynamic Analysis and Simulation in Architecture	(AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, Master Academic Studies
25.	A116B	Geometric Theories in Architectural Structures' Generation	(A00) Architecture, Doctoral Academic Studies

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

	ID	Course name	Study programme name, study type
26.	A116E	Modern techniques of the geometric space representation	(A00) Architecture, Doctoral Academic Studies (AS0) Scenic Design, Doctoral Academic Studies
27.	AID03	3D representation of the real world environment	(F20) Engineering Animation, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	V. Stojaković, B. Tepavčević, Image-based modeling approach in creating 3D morphogenetic reconstruction of Liberty Square in Novi Sad, Journal of Cultural Heritage, 12, ISSN: 1296-2074, doi:10.1016/j.culher.2010.06.001, 2011, str. 105-110. (M22)
2.	V. Stojaković, R. Štulić, Virtual Reconstruction of Kljajicevo Chapel, Journal for Geometry and Graphic, Vol. 14, No 10, ISSN 1433-8157, 2010, str.81-91.
3.	V. Stojaković, Terrestrial Photogrammetry and Application to Modeling Architectural Objects, Facta Univesitatis, Series architecture and civil engineering, Vol. 6, No 1, ISSN 0354 – 4605, UDC 528.711:72.01+721(045)=111, Univerzitet u Nišu, Niš, 2008, str. 113-125
4.	V. Stojaković, 3D Modeling Based on Photographic data, Novi Sad Journal of Mathematic, ISSN 1450-5444, Vol. 38, No.3, 2008, str. 65- 72.
5.	Nedučin D., Stojaković V., Štulić R.: On reform of structure and content of the course of descriptive geometry, Pollack Periodica, Akademiai Kiado, ISSN 1788-1994) www.akademiai.com (SCOPUS), 2012, Vol. 7, pp. 85-93, ISSN 1788-1994
6.	Marcijuš I., Stojaković V., Štulić R.: Linear geometric perspective in architectural curricula and spatial skills development, Pollack Periodica, Akademiai Kiado, ISSN 1788-1994) www.akademiai.com (SCOPUS), 2012, Vol. 7, pp. 77-84, ISSN 1788-1994
7.	Stojaković V.: Virtuelne trodimenzionalne reprezentacije arhitektonskih objekata kreirane na osnovu perspektivnih slika, NAUKA PRAKSA, 2009, Vol. 12, No 1, pp. 208-211, ISSN 1451-8341
8.	Stojaković V., Tepavčević B.: GENERATION AND APPLICATION OF DYNAMIC VIRTUAL RECONSTUCTIONS OF URBAN PUBLIC SPACES, UNAPREĐENJE STRATEGIJE OBNOVE I KORIŠĆENJA JAVNIH PROSTORA U PROSTORNOM I URBANISTIČKOM PLANIRANJU I PROJEKTOVANJU, Novi Sad, Faculty of Technical Sciences, 2011, str. 69-86, ISBN 978-86-7892-254-1
9.	V. Stojaković, Importance of Restitution in Cultural Heritage Research and Visualisation, S.A.V.E. Heritage - Safeguard of Architectural, Visual, Environmental Heritage, Capri, Italy, 2011, pp. 1-7.
10.	V. Stojaković, B. Tepavčević, Single Image Ambiguity and Adjustment of Cultural Heritage Modeling Approach, Education and Research in Computer Aided Architectural Design in Europe - eCAADe, Ljubljana, 2011, pp. 99-106.

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

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

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

Science, arts and professional qualifications

Name and last name:	Štulić B. Radovan
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.11.1990
Scientific or art field:	Geometric Space Theory and Interpretation in Architecture and Urbanism

Academic carieer	Year	Institution	Field
Academic title election:	2006	University of Novi Sad - Novi Sad	Geometric Space Theory and Interpretation in Architecture and Urbanism
PhD thesis	1997	Faculty of Architecture - Beograd	Geometric Space Theory and Interpretation in Architecture and Urbanism
Magister thesis	1994	Faculty of Architecture - Beograd	Geometric Space Theory and Interpretation in Architecture and Urbanism
Bachelor's thesis	1990	Faculty of Technical Sciences - Novi Sad	Deformable Body Mechanics

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

	ID	Course name	Study programme name, study type
1.	A102	Descriptive Geometry 2	(A00) Architecture, Undergraduate Academic Studies
2.	A183	Geometry and Visualization of Free Forms	(A00) Architecture, Undergraduate Academic Studies
3.	A555	Perspective	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	AD06	Descriptive Geometry 1	(A00) Architecture, Undergraduate Academic Studies
5.	GG03	Descriptive Geometry	(G00) Civil Engineering, Undergraduate Academic Studies
6.	GI104	Descriptive Geometry in Geomatics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
7.	S012	Descriptive Geometry and Engineering Drawing	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
8.	Z418	Geometry of Eco-spatial Visualization	(Z20) Environmental Engineering, Undergraduate Academic Studies
9.	IA007	Geometry and Visualization of 3D Space	(F10) Engineering Animation, Undergraduate Academic Studies
10.	IA015	Application of Engineering Animation	(F10) Engineering Animation, Undergraduate Academic Studies
11.	ASO5	Descriptive Geometry with Perspective 1	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
12.	ASO9	Descriptive Geometry with Perspective 2	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
13.	A116DS	Modern techniques of the geometric space representation	(A00) Architecture, Specialised Academic Studies (GI0) Geodesy and Geomatics, Specialised Academic Studies
14.	A118SB	Geometric theories in architectural structures' generation	(A00) Architecture, Specialised Academic Studies
15.	AD0013	Theory of curves and surfaces	(AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, Master Academic Studies
16.	A116B	Geometric Theories in Architectural Structures' Generation	(A00) Architecture, Doctoral Academic Studies
17.	A116E	Modern techniques of the geometric space representation	(A00) Architecture, Doctoral Academic Studies (AS0) Scenic Design, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Štulić R., Obradović R.: Ideal Shape of a Non-stressed Piston Ring, Agricultural Engineering 1 (1995) 3-4, pp. 78-83.
2. Štulić R.: Space Restitution of a Birational Qudratic Transformation, Proceedings of the 8th ASEE International Conference on Engineering Computer Graphics and Descriptive Geometry, Austin Texas, USA, 1998. Vol. 3, pp. 707-711.
3. Miljković N., Štulić R., Ercegan G., Jandrić Z.: Computer Aided Evaluation of Total Hip Prosthesis Stability, ISGG ASEE Journal for Geometry and Graphics, Volume 2 (1998), No. 2, pp. 141-149
4. Štulić R., Bajkin J., Milojević Z.: Generalisation of Sphere Polarity to Contour Line Determination and Shading of Surfaces of Revolution, Facta Universitatis, Series for Arrchitecture and Civil Engineering, Vol. 2., No.1, 1999., pp. 31-40.

Representative refferences (minimum 5, not more than 10)

5.	Štulić R., Jandrić Z., Milojević Z.: Polar Cylinders of Surfaces of Revolution: Contour Line Determination, Journal for Mathematics, Vol. XXIX, NO. 3, (1999), pp. 349-356 .
6.	Dovniković L., Štulić R.: Uniform Constructions of the Rational 4th Order Parabolas, Zbornik Matice srpske za prirodne nauke (Matica srpska Proceedings for Natural Sciences), No.99, 2000, pp. 5-18.
7.	Štulić R., Dovniković L.: The Importance of Proper Graphics Education for Engineering Students, Proceedings of the 6th International Symposium, Interdisciplinary Regional Research, Novi Sad, 2002, CDROM 0505
8.	Štulić R., Sdroulias I.: On Particularities of Space Restituted Birational Quadratic Transformation, Proceedings of the 10th International Conference on Geometry and Graphics, Kiev, Ukraine, 2002, pp.74-78.
9.	Štulić R., Atanacković J.: Implementation of Computer Technologies In Descriptive Geometry Teaching: Surfaces of Revolution, Facta Universitatis, Vol. 2, No 5, 2003., pp. 379-385.
10.	Nikolić D., Štulić R., Šiđanin P.: On the Flexibility of Deployable Dome Structures and their Application in Architecture, Proceedings of the 1st International Conference on Architecture & Urban Design. Tirana, Albania, 2012. pp.1053-1062.

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

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

Science, arts and professional qualifications

Name and last name:	Teofanov Đ. Ljiljana
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	18.12.1995
Scientific or art field:	Mathematics

Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Mathematics
PhD thesis	2008	Faculty of Sciences - Novi Sad	Mathematical Sciences
Magister thesis	2000	Faculty of Sciences - Novi Sad	Mathematical Sciences
Bachelor's thesis	1994	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.	A101	Mathematics	(A00) Architecture, 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.	GG00	Mathematical Methods 1	(G00) Civil Engineering, Undergraduate Academic Studies
4.	GI101	Algebra	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
5.	IAM001	Mathematical Shape Modeling for Computer Animation	(F10) Engineering Animation, Undergraduate Academic 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.	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
8.	E101A	Discrete Mathematics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	IM1523	Discrete Mathematics	(M30) Energy and Process Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
10.	P216	Numerical Analysis	(P00) Production Engineering, Undergraduate Academic Studies
11.	SE0009	Discrete Mathematics	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, 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

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

	ID	Course name	Study programme name, study type
13.	IA022	Numerical Optimization	(F20) Engineering Animation, Master Academic Studies
14.	D0M48	Numerical Methods for Solving Differential Equations	(OM1) Mathematics in Engineering, Doctoral Academic Studies
15.	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. Surla, K., Teofanov, Lj., Uzelac, A Robust Layer-Resolving Spline Collocation Method for a Convection-Diffusion Problem, Applied Mathematics and Computation,(2009), 208(1): 76-89
2. Teofanov, Lj., Roos, H. -G, An elliptic singularly perturbed problem with two parameters II: robust finite element solution, J. Comput. Appl. Math. Vol. 212, 2008, 374-389
3. Teofanov, Lj., Roos, H. -G, An elliptic singularly perturbed problem with two parameters I: solution decomposition, J. Comput. Appl. Math. Vol. 206, 2007, 1082-1097
4. Surla, K., Uzelac, Z., Teofanov, Lj., The discrete minimum principle for quadratic spline discretization of a singularly perturbed problem, Math. Comput. Simul. 2009, Vol. 79, No 8, pp.2490-2505
5. Teofanov, Lj., Zarin, H., Superconvergence for two-parameter singularly perturbed problem, BIT Numerical Mathematics, Vol. 49, No. 4, 2009, 743-765
6. Vulanović, R., Teofanov, Lj., A uniform numerical method for semilinear reaction-difusion problems with a boundary turning point, Numer. Algor. 54, 2010, 431-444
7. Teofanov, Lj., Uzelac, Z., Family of Quadratic Spline Difference Schemes for a Convection-Diffusion Problem, Int. J. Comput. Math., Vol. 84, No. 1, 2007, 33-50
8. Surla, K., Uzelac, Z., Teofanov, Lj., On collocation methods for singular perturbation problems of convection-diffusion type, Novi Sad J. Math, Vol. 31, No. 1, 2001, 125-132
9. Surla, K., Uzelac, Z., Pavlović, Lj., On collocation methods for singular perturbation problems, Novi Sad J. Math., Vol. 30, No. 3, 2000, 173-183
10. Čomić, I., Pavlović, Lj., Funkcije više promenljivih, Fakultet tehničkih nauka, Novi Sad, 2000, 95 str.

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

Quotation total :	12			
Total of SCI(SSCI) list papers :	7			
Current projects :	Domestic :	1	International :	0

Science, arts and professional qualifications

Name and last name:	Trifković N. Milan
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Civil Engineering Subotica - Subotica
	21.10.2005
Scientific or art field:	Geodesy

Academic carieer	Year	Institution	Field
Academic title election:	2010	Faculty of Civil Engineering Subotica - Subotica	Geodesy
PhD thesis	2000	Faculty of Civil Engineering - Beograd	Geodesy
Magister thesis	1993	Faculty of Civil Engineering - Beograd	Geodesy
Bachelor's thesis	1990	Faculty of Civil Engineering - Beograd	Geodesy

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

	ID	Course name	Study programme name, study type
1.	GI011A	Land Consolidation	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
2.	GI105	Introduction to Geodesy	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
3.	GI203	Geodesy 2	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	GI309	Cadastre	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
5.	GI519	Real Estate Cadastre	(GI0) Geodesy and Geomatics, Master Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Trifković,M. Kuburić,M.: Uloga katastra u planiranju i izgradnji gradskog područja, Međunarodna konferencija 2006, Savremeni problemi u građevinarstvu, Građevinski fakultet Subotica
2.	Trifković,M Kostić-Milanović A.: Legalizacija bespravno izgrađenih objekata - geodetski aspekt, Simpozijum: Nadzor nad građenjem i tehnički pregled objekata, Aranđelovac, 1999.
3.	Trifković,M. Krstajić,M. Simanović,M. Primena novih tehnologija u geodeziji kod projektovanja dalekovoda, Simpozijum elektroprivrede, Teslić, 2002
4.	Trifković.M. Razvoj modernog katastra u Srbiji, Monografija: 100 godina građevinarstva u Srbiji, Beograd, 2002.
5.	Trifković,M Kostić-Milanović A.: Uloga katastra u planiranju i izgradnji gradskog područja, Simpozijum: Nadzor nad građenjem i tehnički pregled objekata, Aranđelovac, 2002.
6.	Trifković,M. Savanović,R. Trifković,M.:Aktuelno stanje u katastru Srbije - problemi legalizacije, Simpozijum: Procedure i problematike izgradnje objekata, Aranđelovac, 2003.
7.	Trifković,M., Kuburić,M.:Održavanje katastra vodova u urbanim sredinama, Simpozijum: Procedure i problematike izgradnje objekata, Vrnjačka Banja,2006.
8.	Zajedničko geodetsko osmatranje velikih brana i akumulacija, Časopis: Materijali i konstrukcije, Beograd, 2010, str 33 - 41, M51
9.	Informatički menadžment geoinformacionih sistema, Časopis: Arhitektura i urbanizam, Beograd, 2010, M51
10.	Primena geodezije za utvrđivanje seizmičkih pojava, Časopis: Izgradnja br. 3-4, Beograd, 2010, str 185 – 188, M51

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

Quotation total :	12			
Total of SCI(SSCI) list papers :	1			
Current projects :	Domestic :	0	International :	0

Science, arts and professional qualifications

Name and last name:	Ubavin M. Dejan
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.08.2005
Scientific or art field:	Environment Protection Engineering

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Environment Protection Engineering
PhD thesis	2012	Faculty of Technical Sciences - Novi Sad	Environment Protection Engineering
Magister thesis	2008	Faculty of Technical Sciences - Novi Sad	Environment Protection Engineering
Bachelor's thesis	2004	Faculty of Technical Sciences - Novi Sad	Environment Protection Engineering

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

	ID	Course name	Study programme name, study type
1.	Z205	Sustainable Use of Natural Resources and Environmental Protection System	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
2.	Z309A	Solid Waste Management	(Z01) Safety at Work, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
3.	Z401A	Design and Planning in Environmental Protection	(Z20) Environmental Engineering, Undergraduate Academic Studies
4.	Z401B	Design and Planning in Environmental Engineering	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
5.	Z409A	Hazardous Waste Management and Recycling Technologies	(Z20) Environmental Engineering, Undergraduate Academic Studies
6.	Z414	Contemporary Methods of Soil Remediation	(Z20) Environmental Engineering, Undergraduate Academic Studies
7.	OAS214	Integralni katastar zagađivača(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
8.	Z309A	Upravljanje čvrstim otpadom(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
9.	M3202	Identification and reduction of pollution from industry	(M30) Energy and Process Engineering, Undergraduate Academic Studies
10.	ZC047	Waste to energy tehnologies	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
11.	Z452	Design and maintenance of quality control in environmental engineering	(M40) Technical Mechanics and Technical Design, Master Academic Studies
12.	Z508	Specific Design Conditions in Environment Protection	(Z20) Environmental Engineering, Master Academic Studies
13.	Z511	Institutional Framework for Accidental Risk Management	(Z20) Environmental Engineering, Master Academic Studies
14.	ZR501	Hazardous Materials and Hazardous Waste	(Z01) Safety at Work, Master Academic Studies
15.	ZR502	Occupational Risk Assessment	(Z01) Safety at Work, Master Academic Studies
16.	Z508	Specifični uslovi projektovanja u zaštiti životne sredine(uneti naziv na engleskom)	(Z20) Environmental Engineering, Master Academic Studies
17.	Z511	Institucionalni okviri upravljanja akcidentnim rizicima(uneti naziv na engleskom)	(Z20) Environmental Engineering, Master Academic Studies
18.	GH508	Landfill desing and municipal waste treatmant systems	(G00) Civil Engineering, Master Academic Studies
19.	MPK027	Management of environmental facilities	(MPK) Inženjerstvo tretmana i zaštite voda - TEMPUS(uneti naziv na engledskom), Master Academic Studies
20.	SZSP21	Design and Planning Processes to Minimize Waste and Hazardous Materials	(Z00) Environmental Engineering, Specialised Academic Studies
21.	ZD052	Efficient Use of Natural Resources and Low-Carbon Development	(Z00) Environmental Engineering, Doctoral Academic Studies
22.	ZDI23	Material Flow Analysis in Urban Systems	(Z00) Environmental 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
23.	ZSP21	Design and Planning Processes to Minimize Waste and Hazardous Materials	(OM1) Mathematics in Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies
24.	ZRD213	Current state and development tendencies of quality management of work environment	(Z01) Safety at Work, Doctoral Academic Studies
25.	ZRD231	Economic implication of occupational health and safety projects implementation	(Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Stanisavljević N., Ubavin D., Batinić B., Fellner J., Vujić G.: Methane emissions from landfills in Serbia and potential mitigation strategies: a case study, WASTE MANAGE RES, 2012, ISSN 0734-242X
2.	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
3.	Vujić G., Jovičić N., Maja Đ., Ubavin D., Nakomčić Smaragdakis B., Gordana J., Dušan G.: INFLUENCE OF AMBIENCE TEMPERATURE AND OPERATIONAL - CONSTRUCTIVE PARAMETERS ON LANDFILL GAS GENERATION - CASE STUDY NOVI SAD, Thermal Science - International Scientific Journal, 2010, Vol. 14, No 2, pp. 555-564, ISSN 0354-9836, UDK: 547.211:631.41
4.	Vujić B., Milovanović D., Ubavin D.: Analiza koncentracionih nivoa čestičnih materija (PM10, ukupnih suspendovanih čestica i čađi) u Zrenjaninu, Hemijska industrija, 2010, Vol. 64, No 5, pp. 453-458, ISSN 0367-598X
5.	Landfill gas modelling and risk assessment in the purpose of the good managing in municipal landfill of Novi Sad - CHISA 2004, 16th International Congress of Chemical and Process Engineering, Prague, Czech Republic, August 2004
6.	Analysis of location for building objects; - Sixth International Symposium and Exhibition on Environmental Contamination in Central and Eastern Europe and the Commonwealth of Independent States (Prague 2003), Czech Republic, September 2003
7.	Vujić, G. Batinić, B. Ubavin, D. Stanisavljević. N., Analysis of municipal waste content & waste amount as the basis for the new waste management policy in Vojvodina, Serbia, ISWA/WMRAS World Congress, Singapore: ISWA, 03. - 06. Novembar, 2008.
8.	Ubavin D., Vujić G., Stanisavljević N., Batinić B., Mirosavljević Z.: National Methane Emissions from Waste Disposal Sites in Serbia, 1. The ISWA 2012 World Solid Waste Congress, Florence: ISWA, 17-19 Septembar, 2012, pp. 1279-1287, ISBN 978-88-907694-2-9
9.	Stanisavljević N., Jokanović S., Batinić B., Ubavin D., Vujić G.: Evaluation of Different Waste Management Options for South East Europe, Exemplified for The City of Novi Sad, 1. The ISWA 2012 World Solid Waste Congress, Florence: ISWA, 17-19 Septembar, 2012, pp. 1266-1272, ISBN 978-88-907694-2-9
10.	Batinić B., Ubavin D., Stanisavljević N., Vujić G., Tot B.: Analysis of relation between socioeconomic factors and MSW practice using ANN models, 1. The ISWA 2012 World Solid Waste Congress, Florence: ISWA, 17-19 Septembar, 2012, ISBN 978-88-907694-2-9

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

Quotation total :	3			
Total of SCI(SSCI) list papers :	4			
Current projects :	Domestic :	3	International :	0

Science, arts and professional qualifications

Name and last name:	Vasić V. Milinko
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	15.03.1976
Scientific or art field:	Geotechnics

Academic carieer	Year	Institution	Field
Academic title election:	2007	Faculty of Technical Sciences - Novi Sad	Geotechnics
PhD thesis	1993	Faculty of Mining and Geology - Beograd	Geotechnics
Magister thesis	1983	Faculty of Mining and Geology - Beograd	Geotechnics
Bachelor's thesis	1975	Faculty of Mining and Geology - Beograd	Geotechnics

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

	ID	Course name	Study programme name, study type
1.	GG01	Engineering Geology	(G00) Civil Engineering, Undergraduate Academic Studies
2.	GI102	Fundamentals in Geosciences	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
3.	GP404	Geotechnics	(G00) Civil Engineering, Undergraduate Academic Studies
4.	URZP18	Stability of terrain	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
5.	GP504	Tunnels	(G00) Civil Engineering, Master Academic Studies
6.	MPK017	Fundamentals of Geosciences	(MPK) Inženjerstvo tretmana i zaštite voda - TEMPUS(uneti naziv na engledskom), Master Academic Studies
7.	DGI020	Selected chapters in geodynamics	(GI0) Geodesy and Geomatics, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Vasić M. Inženjerska geologija, udžbenik, FTN, 2002, 305str.
2. Vasić M.Geotehničke klasifikacije stenskih masa za podzemne objekte, Monografija, FTN, 2007, 180str.
3. P. Lokin., N.Pavlović., M.Petričević., M.Vasić : Primeri istraživanja klizišta u području Tuzle, naučno-stručni časopis Rudarstvo br17-18-Istraživanje i sanacija klizišta, str. 92-102., Tuzla, 2000.
4. P.Lokin, M.Vasić., M.Petričević, M., Z. Janošev: On the disturbance and protection of the geological medium in natural parks with special reference to Fruška Gora, eighth Internacional Congress International Association for Engineering Geology and the Environment, str. 2659-2666, Vancouver, Canada, 1998.
5. Lokin,P., Vasić,M., Saković,S., Petričević,M.: Landslide along the Danube bank at Novi Sad, Yugoslavia, 7. international symposium on landslide, str.803-808, Trondheim, Norway, 1996.
6. Vasić,M., Vasić,S: Klasifikovanje stenskih masa za podzemne objekte primenom računarskog programa KLASA IPO-96, Medjunarodna konferencija-Pravci razvoja geotehnike, str. 414-423, Beograd, 1996.
7. Đogo, M., Vasić, M., (2011): Landslide in the area of the bridge on the Danube in Novi Sad. Proceedings of the ICE - Geotechnical Engineering, Volume 164, Issue 1, pp. 3-10, Thomas Telford, London. ISSN: 1353-2618, E-ISSN: 1751-8563, DOI: 10.1680/geng.2011.164.1.3
8. Đogo, M., Vasić, M., Ćosić, M., (2011): Engineering geological evaluation of the conditions for constructing a bridge and a tunnel in the zone of the old Petrovaradin Fortress. Bulletin of Engineering Geology & the Environment, Volume 70, Number 1, pp. 139-142, Springer, Berlin. ISSN: 1435-9529, E-ISSN: 1435-9537, DOI: 10.1007/s10064-010-0292-0
9. Vasić, M., Đogo, M., (2012): Settlement of the Fabus building due to the infiltration of water into the loess soil. GNP 2012. 4 internacionalni naučno-stručni skup Građevinarstvo-nauka i praksa, Zbornik radova, pp. 1231-1236, Žabljak.
10. Đogo, M., Vasić, M., (2012): Geotechnical investigations for the oil Refinery in Novi Sad, Serbia. 11th Australia - New Zealand Conference on Geomechanics, ANZ 2012 Conference Proceedings, pp. 1118-1122, Melbourne.

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

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

Standard 10. Organizational and Material Resources

To perform a study programme, the adequate human, spatial, technical and technological, library and other resources suitable to the study programme features and predicted students` number are to be provided. Teaching at the study programme Geodesy and Geomatics is performed in 2 shifts so each student is provided with a adequate space.

Lectures are held in amphitheatres, classrooms and specialized laboratories. The library possesses library units relevant for the performance of the study programme Geodesy and Geomatics. All courses from the study programme Geodesy and Geomatics have adequate textbooks, devices and supplementary equipment available on time and in a satisfactory number for the normal teaching process. There is also adequate information support.

Faculty has the library and the study room and provides a seat for each student in amphitheatres, classrooms and laboratories.

Department for Computer and Control Engineering, which is the mother department for the study programme Geodesy and Geomatics, possesses laboratories provided in cooperation with well-known worldwide companies: HEXAGON, ORACLE, IBM, Cisco Systems, Allied Telesyn, Micronas, ABB, Philips, Sagem, OpenWave, AOL, Cirrus Logic, Danfoss, Nivelco, Feedback, Siemens, Laica, Trimble, Schneider Electric. There is also geodetic equipment for surveying.

In comparison to the initial state, in terms of the amount and types of equipment for the data processing and geodetic srveying, in the period of 2008-2011 significant investment was made in the modern measuring equipment (10 000 000 dinars). A laboratory for the application of GNSS technology with a network of permanent stations is completed. During the mention period, a cooperation with Intergraph is realized.

Standard 11. Quality Control

The quality control of the study programme is performed regularly and systematically through self-evaluation and external quality control. One should place an emphasis on the multi-decade practice of students` surveys.
The quality control process is conducted through:
-end of the term students survey for each course
-survey of the graduating students at the graduation regarding the quality of the study programme and the logistic support. In addition, the conditions for studying (classroom tidiness and neatness, etc…) are also evaluated.
-survey of the students at the end of the school year. At this point the students evaluate logistics support.
-survey of the student when enrolling a new school year. Here the students evaluate the study program at the year which they have previously completed.
-survey of the teaching and non-teaching staff on the quality of the study programme and its logistic support. Here the work of the Dean`s office, registrar`s office, library, and other services at the Faculty is evaluated. In addition, the conditions for studying (classroom tidiness and neatness, etc…) are also evaluated.
To monitor the quality of the study programme, there is also a committee with all heads of all Departments participating in the realization of the study programme, together with a student from each study group.

Standard 12. Distance Education

Distance learning is not provided for this study programme.