STUDY PROGRAMME ACCREDITATION MATERIAL:

ENGINEERING ANIMATION

UNDERGRADUATE ACADEMIC STUDIES

Novi Sad

2012.

Prevod sa srpskog jezika:

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Programme name	Engineering Animation
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	Interdisciplinary
Scientific, proffesional or art field	Computer Graphics: Technical Sciences; Mathematical Sciences
Type of studies	Undergraduate Academic Studies
Study scope, expressed in ECTS	240-244
Academic degree, abbreviation	Bachelor with Honours in Computer Graphic Engineering, B.Comp.Graph.Eng.
Study length	4
Programme implementation starting year	2011
Future course implementation starting year (for new programme)	
Number of students attending this programme	121
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	2010
Web address containing programme information	http://www.ftn.uns.ac.rs

Standard 00. Introduction

The study programme Engineering Animation at Faculty of Technical Sciences is an interdisciplinary programme between electrotechnics and computer science on one side and mathematics on the other. The programme is designed to enable a high quality education in interdisciplinary visualizations and in applying Computer Graphics in interdisciplinary researches in different fields: in medicine; in visualization in technical and engineering disciplines, especially in mechanical engineering, industrial engineering , civil engineering, architecture, traffic; where ever the visual presentation can play an important part in the solution of the problem. Computer Graphics can be used for educational interdisciplinary presentations; also for visualization as ideal means to teach any discipline that could use visual presentation.
Everyone needs visualization because it is the most natural way in which people view the world and it represents an excellent choice for presentation – visual presentation in studying and teaching, as well as in information transfer, since the saying ``pictures speak louder than 1000 words`` is well known.
Engineering Animation is used as a presentation technique. It can be an important link between an idea and it‘s realization like building a model/object. Engineers always needed a method to explain a project to the public, especially to the potential investors without whose support the project would have no chance to be realized.
The ways of presentation changed through history from drawings, impressive scale models , to Multimedia Digital Objects displays. The goal of every presentation is to give plenty of information about the project. The data should be readable to professionals but also to anybody else out of technical or space designing professions.

The high level presentation is not only easy to comprehend unrelated to the level of viewer’s education and professionalism but should also impress potential sponsor.
Engineering Graphics and Engineering Animation are used in different technical disciplines, such as mechanical engineering, architecture, civil engineering, traffic, electrical engineering and electronics, geodesy etc and also in a a wide range of non- technical disciplines. The application of knowledge and skills in engineering animation and computer graphics finds its place in the art, medicine and pharmacy, physics, biology, chemistry, mathematics, applied mathematics and informatics.
It also finds an important place in education, but also in the film industry, especially since 3D movies have been created. It is used for the development of computer games as well as the WEB design and those industries owe their attractiveness and propulsiveness to the sophisticated use of computer animation. Not the least important is a place it has in education as a frame for digital learning in general.
Engineering Animation is often used for the simulation of production processes, unavailable or insufficiently visible elements (underground and underwater installations, geological mapping, mechanical elements, anatomic parts etc.), risk simulations (earthquakes, floods, fire, etc.) but also for the visualization of different types of data/information.
All this gives a significant social importance and justifies investments both in the development of the required technology and in training professionals to be able to ``professionally cover`` this widespread and necessary profession today and in the future.
During the studies independent work is potentiated, participation in the professional and developmental projects are encouraged, and abilities to solve specific problems are emphasized and developed, team work is nursed and variety of ideas and approaches is required.
Studies of this profile don’t exist in Serbia, but similar studies under the name of Computer Graphics are held at the American and European Universities for over forty years.
Majority of courses at the lower years of undergraduate studies are designed to offer necessary knowledge in general educational and theoretical courses setting the basis for understanding problems in Engineering Animation. Higher years of study are intended for specialized courses which offer professional and applicative knowledge.
The first year has nine courses- four academic general courses, three scientific professional courses and two theoretical methodological courses.
The second year has eleven courses: three scientific professional and three academic general, four theoretical methodological courses and one professional applicative course.
The third year has ten courses, three groups of elective courses, where professional applicative courses dominate, as well as theoretical methodological courses, but also scientific professional courses.
The fourth year has ten courses, where professional applicative and scientific professional courses dominate.
During the studies, modern licensed and/or open-source software packages are used as a part of computer practice, project design, term papers and final projects. The study programme Engineering

Animation uses:
3D Studio MAX, Photoshop, CorelDRAW, Zbrush, VFX artist, Hair,fur and cloth artist, Matlab, VUE, X3D, OpenGL, Steinberg Wavelab, Steinberg Nuendo, Sony Sound Forge, Adobe Premiere, Adobe After Effects, Autodesk Motion blender, Poser, RealFlow, Sybase PowerDesigner, Sybase IQ, ArchiCAD.
During the studies, and especially in the professional courses, independent work is especially valued, participation in the professional and development projects are encouraged, and abilities to solve specific problems are emphasized and developed.

Standard 01. Programme Structure

The name of the study programme is Engineering Animation. Academic title acquired is Graduated Engineer in Computer Graphic.
The outcome of the studying process is the knowledge which enables students to use professional literature, apply knowledge to the problems which occur in the profession, and enables the continuation of the studies if students decide so.
The study programme prerequisite for the enrolment is to complete high school and pass the entrance examination. The entrance examination has an objective to test knowledge in mathematics (valued by max. 60 points). The entrance examination is considered passed if the candidate wins at least 14 points.
Based on the previous 4 year high school grade point average (valued by max. 40 points) and points gained at entrance examination, a unique list of candidates is formed . It is the foundation for enrollment.
There is one study group at the undergraduate academic studies in Engineering Animation, lasting four years.
Study programme of every subject is designed to provide students with the opportunity to concretize the specific issues that certain areas of computer graphics have.
The programme is composed of one semester subjects. Every subject brings a certain number of ESPB points. As defined by standards one ESPB point is approximately 30 hours of student‘s activity (lectures, practice, preparation for exams...). Student obligations during Practice may consist of: writing the term papers and homework assignments, project work, term and graphic papers, where each student activity during the teaching process is monitored and valued according to the Rules of the teaching process, the number of won ESPB points presented in accordance with the unique methodology, basics of valuation of prerequisites given and examination methods adopted at the Faculty level.
There is a mentor appointed to every student at the beginning of enrollment. The mentor supervises and directs student, with regard of student‘s personal interests, towards the best choice of electives, the best place to go to do the practice, which theme for final graduate thesis to choose. The suggestion that the student and the mentor make together has to be accepted by the Committee of the study programme quality. The mentor follows the student‘s work and progress.
The course consists of lectures and practice. During the lectures theory is presented using the adequate didactic tools accompanied by necessary explanations which contribute to the better understanding of the lectured material.
During the practice, which accompanies lectures, specific problems are solved and examples which additionally illustrate theory are presented. Practice gives additional explanation of the matter being taught during the lectures.
Part of the Practice may be carried out in the animation studios in the form of field research, according to the students’ preferences.
There are expert excursions organized by the department for students to empirically experience learnt material. The festivals of animated movies, computer-animated movies and short films are visited.
Each course is worth certain number of ECTS credits, and the studies are completed when the student fulfils all obligations predicted by the study programme and collects at least 240 ECTS in the process (passes all the intended exams, defenses the Final Graduated work).

Standard 02. Programme Objectives

The purpose of the Study Programme is the education of students for the profession of Graduated Engineer in Computer Graphic in accordance with the needs of society.
The undergraduate academic studies in Engineering Animation are designed to provide the acquisition of competences and qualifications that are socially justified and useful. Faculty of Technical Sciences defined tasks and goals for educating highly competent personnel in the field technical sciences. The purpose of the Study Programme of Engineering Animation is completely in accordance with the goals of the Faculty of Technical Sciences.
Graduated engineers of Engineering Animation are educated by realization of the study programme designed in this way and possess competences in the European and worldwide circles.

Standard 03. Programme Goals

The objective of the study programme is to achieve student`s scientific competencies and academic skills in the field of Engineering Animation. Besides others it includes the development of creative abilities and the ability of critical thinking, especially the development of teamwork skills and the mastering of specific practical skills necessary for the profession.
The objective of the study programme is to educate an expert who possesses necessary knowledge in the field of Engineering Animation which can be applied in the practice and can be continuously extended by personal practical experience. One of the specific objectives in accordance with educational objectives of experts at the Faculty of Technical Sciences is to develop students` awareness of the need for permanent education, the sustainable development and the environmental protection. The objective of the study programme is to introduce students to the challenges and advantages of the teamwork, which is very important for the field of engineering animation, since the professional activities are designed for the team and are multidisciplinary.
Besides, students develop the ability to present and coherently demonstrate their ideas, project concepts, research results through the educational process, thus studying the forms of quality communications with the professional and wider public.
The objectives of the study programme can be grouped in several categories:
Technical knowledge. Acquisition of necessary knowledge in the field of professional courses, courses in the field of sciences, computer and control engineering, power engineering, electrical engineering and telecommunications, industrial engineering, mechanical engineering, general courses and art courses.
Practical knowledge. Acquisition of necessary knowledge for the use of modern technologies and tools necessary for the development of complex computer animations in the wider range of engineering disciplines such as architecture, mechanical engineering, civil engineering, traffic, computer and electrical engineering etc. 3D computer animations are also used in medicine, veterinary, dentistry or pharmacy. Wide range of application is also in the entertainment industry, in making the so called 3D movies or for production of 3D computer games.
Communications and team work- Acquisition of necessary knowledge for active use of at least one world language, while developing the ability to present research results to professional and wider public, as well as the development of team work.
Team work is achieved in a way that each generation of students will have the obligation, besides individual and computer animations related to individual courses, to make at least one, annual, generation computer animation with an agreement with professors and assistants using modern, educational, interesting and purposeful topics.
Preparations for further studying. Acquisition of necessary knowledge which will enable further continuation of education through graduate academic studies. One of the special objectives, which are in accordance with the objectives of expert education at the Faculty of Technical Sciences, is to develop student awareness about the needs for permanent education, society development as a whole, and environmental protection.
Preparations for professional engagement. Acquisition of necessary knowledge and development of awareness about the wide range of problems and obligations occurring in the professional practice: safety, ethics, ecology and economics.

Standard 04. Graduates` Competencies

Graduated students of the undergraduate academic studies in Engineering Animation are competent and qualified to solve real problems in the practice, to do research, as well as to continue education.
The competences include, above all, the development of the ability for critical thinking, ability of problem analysis, solution synthesis, and behavior prediction of the chosen solution with the clear idea of good and bad sides of the chosen solution.
When it comes to the specific capabilities of students, mastering the study programme of the undergraduate studies in Engineering Animation, the students acquire (bez “s”) detailed knowledge and understanding of all disciplines of the corresponding professions, as well as the ability for solving specific problems using engineering methods and procedures. Considering the interdisciplinary character of the study programme, it is especially important to be able to connect basic knowledge in different fields with their application. Graduated students of Engineering Animation are able to adequately do research, write and present their work results. Modern computer and programming systems are used intensively during the studies because of the profession character.

Standard 05. Curriculum

The curriculum of undergraduate academic studies in Engineering Animation is designed to satisfy all defined goals. The structure of the study programme provides about 15% of academic general courses, about 20% of theoretical-methodological courses, about 35% of scientific-professional courses, and about 30% of professional-application courses. The condition that elective courses be present with 20% of ECTS credits is also satisfied.
Besides this classification, courses which make up the structure of this study programme can be divided into following groups:

Undergraduate academic studies in Engineering Animation – Bachelor last four years.
Elective courses additionally enable satisfaction of student`s personal affiliations.
All courses last one semester and carry a certain number of points where one point corresponds to about 30 hours of student activities. The order of the courses in the study programme is such that the knowledge necessary for the advanced courses is previously acquired in the already lectured courses.
The curriculum includes the description of each course containing the name, type of article, year and semester, the number of ECTS credits, the name of the teacher, the course aims with expected outcomes, knowledge and competencies, prerequisites for attending the course, course content, recommended literature, methods of teaching, the way of knowledge testing and assessment and other data. The study program is consistent with European standards in terms of conditions of enrolment, duration of study, conditions of transition to the next year, graduation, and modes of study.
An integral part of the curriculum of Engineering Animation is a professional practice and practical work of 45 hours, which can be done in the relevant scientific research institutions, in organizations for innovation activities, in organizations which provide infrastructural support to innovation activities, in enterprises and public institutions.
A student is completing his/her studies by elaboration of the bachelor thesis, which consists of theoretical and methodological preparation necessary for systematic understanding of the chosen field for writing bachelor thesis.
Prior to the defence of the paper, a candidate has to pass the theoretical and methodological foundations in front of the mentor. The final assessment of the Bachelor thesis is performed on the basis of the passed theoretical and methodological preparation and elaboration evaluation and defence of the thesis itself. Bachelor thesis is defended before a committee consisting of at least three professors.

Table 5.2 Course specification

Course:	Algebra
Course id: IA001	
Number of ECTS: 7	
Teachers:	Grbić P. Tatjana, Nikolić M. Aleksandar
Course status:	Mandatory

Number of active teaching classes (weekly)

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

Precondition courses: None

1. Educational goal:

Enabling students to develop abstract thinking and acquire basic knowledge in the field of algebra.

2. Educational outcomes (acquired knowledge):

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

3. Course content/structure:

Complex Numbers, Polynomials, Linear Systems, Determinants, Matrices,Vector Space, Linear Transformations, Vectors, Three-dimensional Geometry

4. Teaching methods:

Lectures; Numerical calculation practice. Consultations. Lectures are combined. In lectures, theoretical part of the course is taught followed by typical examples for better understanding. In practice, which accompanies lectures, typical problems are solved and knowledge from the lectures is deepened. Besides lectures and practice, consultations are held on a regular basis.

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,	Rade Doroslovački	Principi algebre, opšte, diskretne i linearne	Alfa Graf, Novi Sad	2008
2,	Dragan Đorić, Rade Lazović	Matematika 1	Fakultet organizacionih nauka, Beograd	2010
3,	Tatjana Grbić, Silvia Likavec, Tibor Lukić, Jovanka Pantović, Nataša Sladoje, Ljiljana Teofanov	Zbirka rešenih zadataka iz matematike I	Stylos, Novi Sad	2004

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:		Free Hand Drawing
Course id:	IGA002	
Number of ECTS:	8	
Teacher:		Janev B. Jelena
Course status:		Mandatory

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

Precondition courses: None

1. Educational goal:

Training and introducing students to the problems of drawing and its properties and the meaning it collected as an integral human experience during history. Acquisition of habits for reinterpretation and modernization, and creation of completely new ideas, poetics and individual handwriting as a form of creative practice for the needs of not only artistic expression are acquired in this way.

2. Educational outcomes (acquired knowledge):

To apply acquired knowledge in the further educational process as well as in the future professional development.

3. Course content/structure:

The programme is carried out by the following questions: 1. Drawing as a basic means of communication?: Historical overview and drawing development. Materials on which and by which drawings can be made. Ways of communication by the drawing 2. Form by drawing?: Drawing according to the plane and to the volume. Rhythm and pace of the drawing, Dynamism and latent dynamism in the drawing. Brightness and shadow in the drawing, 3. Meaning and possibilities of meaning in the drawing: Meaning of the point and line in the free hand drawing. Meaning of the point and line in the computer drawing. Basic archetypal and symbolic forms. Symbolism by the drawing, Drawing on the relation seen-made (extreme simplification readable for the majority), Recognition and support of individualism in the drawing ink.

4. Teaching methods:

Lectures and Practice in the drawing office. Consultations.
The course grade is formed based on the lecture and practice attendance, and on review and assessment of all the work during the semester

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	30.00			
Project	Yes	30.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Kosta Bogdanović, Bojana Burić	Teorija forme	Zavod za izdavanje udžbenika, Beograd	1999
2,	Kosta Bogdanović	Vizibilnost latentnog dinamizma u statičnim formama	Centar za vizuelnu kulturu i nastavna sredstva Krug, Čačak	2002
3,	Kosta Bogdanović	Poetika vizuelnog	Zavod za udžbenike i nastavna sredstva, Beograd	2007
4,	Kosta Bogdanović	Poetika vizibilnog	Zavod za udžbenike i nastavna sredstva, Beograd, Muzej savremene likovne umetnosti, Novi Sad	2005

Table 5.2 Course specification

Course:	Spatial Shape Design
Course id: IA006	
Number of ECTS: 9	
Teachers:	Obradović M. Ratko, Stojaković Z. Vesna, Zlokolica M. Vladimir
Course status:	Mandatory

Number of active teaching classes (weekly)

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

Precondition courses: None

1. Educational goal:

Enabling students for spatial visualization and generation of spatial models.

2. Educational outcomes (acquired knowledge):

The use of graphic programmes for 3D visualization, as well as good perception of space.

3. Course content/structure:

Graphic programme systems and models. Methods of information presentation: raster graphics and vectors graphics. Fundamentals of spatial shaping. Users interface. Structure of program systems for spatial shaping. Image: natural and generated. Object recording. Presentation of Projection and Views. Classic views. Orthogonal projections. Axonometric projections. Oblique projections. Perspective. View design at the computer. Camera position. Curves in Computer Graphics: cubic spline, normalized cubic spline, Bezier curves, NURBS. Surfaces in CG: surfaces of revolution, sweep surfaces, quadrics, ruled and developable surfaces, Coons linear surfaces, Coons bicubic surfaces, Piecewise surface representation, mapping parametric surfaces, bilinear surfaces, Bezier surfaces. Geometric primitives: cube, box, cylinder and sphere. Curves and surfaces intersection: algebraic methods, subdivision methods, discretization methods. Contour line of surfaces. Surfaces intersection on basic on geometric models. Boolean operations on solids. Visibility: Painter algorithm, Newell's algorithm, Warnock's algorithm, Z Buffer algorithm. Clipping Algorithms: Clipping, Cohen-Sutherland Line Clipping, Cyrus-Beck. Changing the shape of objects. Global changes of shapes. Changes of free form. Transformations: 2D and 3D. Space configuration. Obtaining 3D image from the 2D sample. Fractals. Application of different application software. Sketching: 3D scene. Setting the scene: eye point and the plane of the figure.

4. Teaching methods:

Lectures, Computer Practice, Consultations.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance	Yes	5.00	Written part of the exam - tasks and theory	Yes	30.00
Lecture attendance	Yes	5.00			
Project	Yes	30.00			
Project task	Yes	15.00			
Project task	Yes	15.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Alan Watt	3D Computer Graphics	Addison Wesley	2000
2,	Autodesk	Autodesk 3DS MAX Tutorial guide	Autodesk	2005
3,	Ratko Obradović, Ivan Pinćjer, Ivica Nikolić, Gojko Vladić	Dizajn prostornih oblika-odabrani primeri	Fakultet tehničkih nauka, Novi Sad	2009
4,	Ratko Obradović	Računarska grafika - krive i površi	Fakultet tehničkih nauka Novi Sad	2012

Table 5.2 Course specification

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

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

Precondition courses: None

1. Educational goal:

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

2. Educational outcomes (acquired knowledge):

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

3. Course content/structure:

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

4. Teaching methods:

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

Knowledge evaluation (maximum 100 points)

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

Literature

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

Table 5.2 Course specification

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

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

Precondition courses: None

1. Educational goal:

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

2. Educational outcomes (acquired knowledge):

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

3. Course content/structure:

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

4. Teaching methods:

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

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Test	Yes	10.00	Written part of the exam - tasks and theory	Yes	40.00
Test	Yes	10.00	Oral part of the exam	Yes	30.00
Test	Yes	10.00			

Literature

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

Table 5.2 Course specification

Course:		Geometry and Visualization of 3D Space
Course id:	IA007	
Number of ECTS:	9	
Teachers:		Stojaković Z. Vesna, Štulić B. Radovan, Tepavčević B. Bojan
Course status:		Mandatory

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

Precondition courses: None

1. Educational goal:

Development of the spatial visualization ability, the knowledge of selected geometric forms on the two-dimensional (2D) display of parallel projection.

2. Educational outcomes (acquired knowledge):

Ability to identify and interpret spatial relationships of studied spatial shapes from corresponding 2D displays as well as knowledge of their geometric structures. Ability to define optimal approximation of general forms for their constructive performance.

3. Course content/structure:

Basic element of spatial visualization. Projection, directions of observation and types of images of basic geometric forms. Criteria for obtaining typical views and positions of the object with an objective of direct detection of metric properties and recognition of spatial relationships of objects. Visibility concepts. Application of complex forms. Visualization of geometric structures of complex 3D forms. Analysis criteria of straight and cross-sectional surfaces, typical elements of these sections. Concepts of visibility and visual realism. Spatial and straight curves as guides or generators of "traditional" surfaces. Typical views and direct detection of geometric structures of those surfaces. Developable and nondevelopable surfaces; Straight line generated quadrics, conoids, cylindroids, helical surfaces, arches, vaults and domes, roofs, etc..
Shading and visual realism. Basic principles of shading. The shade light. Detection of typical elements in the shadows thrown in orthogonal and oblique views and axonometric images. Central and parallel lighting.

4. Teaching methods:

Lectures, computer exercises. Consultations.

Knowledge evaluation (maximum 100 points)

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

Literature

Ord.	Author	Title	Publisher	Year
1,	R. Štulić, V.Stojaković	GEOMETRIJA I VIZUELIZACIJA SLOBODNIH FORMI, podloge za predavanja	Fakultet tehničkih nauka, Novi Sad	2007
2,	Dovniković Lazar	Nacrtna geometrija	Univerzitet u Novom Sadu	1992
3,	Farin G.	Curves and Surfaces for CAGD-A Practical Guide	Morgan Kaufmann	2002
4,	Pottman, Asperl, Hofer	Kilian Architectural Geometry	Bentley Institute Press	2007

Table 5.2 Course specification

Course:		Programming and Programming Languages
Course id:	H207	
Number of ECTS:	5	
Teachers:		Ivetić V. Dragan, Malbaški T. Dušan, Suvajdžin Rakić B. Zorica
Course status:		Mandatory

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

Precondition courses: None

1. Educational goal:

Mastering basic programming skills on the example of the programming language C.

2. Educational outcomes (acquired knowledge):

Acquired knowledge and skills are used for solving problems from basic profession individually or in a team. Modeling problem solution by application of structural techniques, structuring data especially at the level of bits, development of detailed solution, coding the solution on the C programming language, active participation in software development teams nourishing software engineering.

3. Course content/structure:

Program development phases of simple behavior. Generations of programming languages and styles. Development and executing C programs. Basic structure of C programs: alphabet, identifiers, preprocessing directives, declaration of constants, types and variables. Types of data of C languages: scalars, index types and records/structures. C operators, expressions and management structures. C functions, recursions and macros. Standard functions of inputs and outputs. Working with C database, text and binary.

4. Teaching methods:

Lectures, Computer Practice, Consultations. The course is organized in two wholes and the knowledge is tested in the form of two tests during the lectures. C programs are created during Practice using static and dynamic data structures. The quality of the Practice work is evaluated. Successfully solved Practice is an examination prerequisite. The examination is taken in the written form. Points won at the examination, tests and other obligations are added up in order to form the final grade.

Knowledge evaluation (maximum 100 points)

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

Literature

Ord.	Author	Title	Publisher	Year
1,	Dragan Ivetić	Strukturirani pristup programiranju: inženjering, algoritmi i programski jezici Paskal i C	FTN	2005

Table 5.2 Course specification

Course:		Drawing for Animation and Visual Effects
Course id:	IA008	
Number of ECTS:	7	
Teacher:		Vujanović D. Miloš
Course status:		Mandatory

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
2	4	0	0	0

Precondition courses: None

1. Educational goal:

Enabling students for visual perception, its reflection and adequate representation in the process of drawing and raising the general visual standards.

2. Educational outcomes (acquired knowledge):

To apply acquired knowledge in the further process of education as well as in the future professional work.

3. Course content/structure:

Drawing basic geometric shapes and objects that can be derived from basic geometric shapes. Drawing portraits and human figures. Working on the sketch and on the small format drawings.
Roots of animation and visual effects in the history of art. Geometrization and simplification in the drawing. Motion in the front plan. Space representation and types of perspective. Space motion and moving in space. Visual culture – basic meaning and concepts. Anatomy, that is, construction of objects – models for animation. Introduction to the pervasiveness of the drawing as a supreme communication means.

4. Teaching methods:

Lectures and Practice in the drawing office. Consultations.

Knowledge evaluation (maximum 100 points)

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

Literature

Ord.	Author	Title	Publisher	Year
1,	Rudolf Gaberc	Plastična anatomija čoveka	Fond za isdavačku delatnost Univerziteta u Beogradu, Beograd	1985
2,	Sarah Simble	Anatomy for the Artist	Dorling Kindersley Book, London	2001
3,	Jeno Barcsay	Anatomija za umetnike	Mono & Manjana, Beograd	2000
4,	Miloš Vujanović i Ana Novaković	Crtanje za animaciju	Fakultet tehničkih nauka, Novi Sad	2012

Table 5.2 Course specification

Course:	Mathematical Analysis
Course id: IA002	
Number of ECTS: 7	
Teacher:	Grbić P. Tatjana
Course status:	Mandatory

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

Precondition courses: None

1. Educational goal:

Enabling students to develop abstract thinking and acquire basic knowledge in the field mathematical analysis.

2. Educational outcomes (acquired knowledge):

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

3. Course content/structure:

Elementary functions, Sequences, Real functions and variables (boundary values,continuity, differential calculus and their application). Taylor and MacLaurint series, Indefinite integral, definite integral and their application, Numerical Series

4. Teaching methods:

Lectures; Numerical calculation practice. Consultations. Lectures are combined. In lectures, theoretical part of the course is taught followed by typical examples for better understanding. In practice, which accompanies lectures, typical problems are solved and knowledge from the lectures is deepened. Besides lectures and practice, consultations are held on a regular basis.

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,	Ilija Kovačević, Vojislav Marić, Momčilo Novković, Biljana Rodić	Matematička analiza 1 – drugi deo	Symbol, Novi Sad	2007
2,	Dragan Đorić, Rade Lazović	Matematika 1	Fakultet organizacionih nauka, Beograd	2010
3,	Tatjana Grbić, Silvia Likavec, Tibor Lukić, Jovanka Pantović, Nataša Sladoje, Ljiljana Teofanov	Zbirka rešenih zadataka iz matematike I	Stylos, Novi Sad	2004
4,	Momčilo Novković, Biljana Rodić, Slavica Medić, Vladimir Ćurić	Zbirka rešenih zadataka iz matematičke analize 1	Symbol, Novi Sad	2007

Table 5.2 Course specification

Course:	Character Animation
Course id: IGA013	
Number of ECTS: 7	
Teachers:	Janev B. Jelena, Vujanović D. Miloš, Zlokolica M. Vladimir, Obradović M. Ratko
Course status:	Mandatory

Number of active teaching classes (weekly)

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

Precondition courses: None

1. Educational goal:

Enabling students to create character of the characters and introduction to the basic requests of movement and frame, as well as mastering space in the animated form (movie).

2. Educational outcomes (acquired knowledge):

To apply acquired knowledge in the further process of education as well as in the future professional work.

3. Course content/structure:

Drawing the basic 3D shapes and manipulation with basic 3D shapes. Drawing the basic shape of 3D animation and animation of the basic figure through 11 principles of animation : 1) kneading and stretching, 2) anticipation, 3) staging, 4) straight ahead from pose to pose, 5) follow through, overlapping action, held pose & moving hold, 6) deceleration and acceleration, 7) secondary action, 8) timing, 9) arch, 10) exaggeration of emotions, 11) solid drawing. After mastering the basics, the upgrade in the direction of well known animated characters and individual student works follows. Program for computer animation of the character: poser

4. Teaching methods:

Lectures and Practice in the drawing office, Computer Practice. Consultations.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance	Yes	5.00	Written part of the exam - tasks and theory	Yes	30.00
Lecture attendance	Yes	5.00			
Project	Yes	30.00			
Project task	Yes	15.00			
Project task	Yes	15.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Miloš Vujanović, Ratko Obradović	Animacija karaktera - skripta	Fakultet tehničkih nauka, Novi Sad	2010
2,	Walt Stanchfield	Gesture Drawing for Animation	Leo Brodie, Washington	2007
3,	Steve Roberts	Character Animation Fundamentals - Developing Skills for 2D and 3D Character Animation	Elsevier & Focal Press	2011

Table 5.2 Course specification

Course:		3D Modeling
Course id:	IA009	
Number of ECTS:	8	
Teachers:		Obradović M. Ratko, Zlokolica M. Vladimir
Course status:		Mandatory

Number of active teaching classes (weekly)

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

Precondition courses: None

1. Educational goal:

Introducing students to the methods of 3D object modeling and animation.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is a good basis for practical work in this field.

3. Course content/structure:

Mapping. Mapping procedure, Interpolation, Interpolation parameters, linear interpolation in 3D. MIP map. Bump mapping. Dislocated map. Illumination map. Illumination. Definitions: light, lighting, shadows. Visualization of lights. Reflection: Phong model, Specular reflection, Diffuse reflection. White and colored light. Tinted light. Light and water, Caustics. Light sources: point and cone light. Cylindrical light and area light. Ambient and linear light. Basic components of light sources: position and orientation, color and intensity, shadow. Lighting scenes: Key light, Fill light, Kick and Rim light. Light position: frontal and laterally. Camera. 3D view: synthetic camera. Visible surfaces. Synthetic camera: position, orientation, Look and Up vectors. Aspect Ratio. Angle of view, camera lens. Front and Back clipping planes. Focal Length. Camera types: Target and Free. Camera view control. Depth of Field. Camera on Path. Types of Camera Shots. Dynamic camera.

4. Teaching methods:

Lectures, Computer Practice. Consultations.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Computer exercise attendance	Yes	5.00	Written part of the exam - tasks and theory	Yes	30.00
Lecture attendance	Yes	5.00			
Project	Yes	30.00			
Project task	Yes	15.00			
Project task	Yes	15.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Alan Watt	3D Computer Graphics	Addison/Wesley	2000
2,	Alan Watt, Fabio Policarpo	3D Games Real-time Rendering and Software Technology	ACM SIGGRAPH Series	2001
3,	Jeremy Birn	digital Lighting & Rendering	New Riders, USA	2006

Table 5.2 Course specification

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

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

2. Educational outcomes (acquired knowledge):

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

3. Course content/structure:

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

4. Teaching methods:

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

Knowledge evaluation (maximum 100 points)

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

Literature

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

Table 5.2 Course specification

Course:	Perspective
Course id: IA003	
Number of ECTS: 5	
Teacher:	Stojaković Z. Vesna
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:

The development of spatial visualization skills, spatial imagination and three-dimensional graphic representation (3D) space in a central perspective image (CP) and understanding the spatial relationships with CP.

2. Educational outcomes (acquired knowledge):

Ability of detection, interpretation and presentation of spatial relationships and properties of complex geometric shapes and their geometric structure of a perspective image. Understanding the relationships and connections between space and CP.

3. Course content/structure:

Perception and understanding of space. Pattern recognition. Depth cues in the image. Interpretation of the theory of spatial relations. Development of perspective. Characteristics and causes of perspective theories depending on the historical circumstances and the leading art and research trends. Space and images. Abstraction. Linear, multicentar perspective projection and panoramas. CP ambiguity. Planar and spatial illusion. Perspective on photography. Structure, optical center position, deformation. CP restitution. Application - Analysis of paintings, virtual reconstruction and the insertion of 3D models of the CP. Geometry. Navigation and modeling based on multiple CP. Three-dimensional images. The spatial visualization of geometric objects in CP. The central projection of basic geometric forms (points, lines, plane). Image elements for the direct detection of metric properties. The criteria for the direct detection of spatial relationships of objects. The concepts of visibility. Application to more complex forms and visualization of complex 3D geometric structure in CP. Viewing angle and setting of CP parametars. Analysis of the structures applicable to engineering animation. The visual realism of the PS. Shadows. Mirrors. Central and parallel lighting. The interpretation of light in PS. The characteristic elements of light rays for direct determination of shadows in PS. The images in horizontal, vertical and diagonal mirrors.

4. Teaching methods:

Lectures and auditory exercises. Consultation.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance	Yes	5.00	Practical part of the exam - tasks	Yes	50.00
Graphic paper	Yes	10.00			
Lecture attendance	Yes	5.00			
Project	Yes	30.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	A. Perez-Gomez i L. Pelletier	Architectural Representation and the Perspective Hinge	MIT	1999
2,	K. Andersen	The Geometry of an Art The History of the Mathematical Theory of Perspective from Alberti to Monge	Springer	2007
3,	P. Anagnosti	Perspektiva	Naučna knjiga Beograd	1967
4,	R. Štulić	Perspektiva	Fakultet tehničkih nauka	2006
5,	R. Zone	Stereoscopic Cinema and the Origins of 3-D Film		2007
6,	S. Aguilera	A New Perspective - Photography & Filmmaking Edition		2008
7,	W. Irvins	Art&Geometry, A Study in Space Intuitions	Dover Publications, Inc. New York	1946

Table 5.2 Course specification

Course:		Mathematical Shape Modeling for Computer Animation
Course id:	IAM001	
Number of ECTS:	4	
Teachers:		Sladoje Matić I. Nataša, Teofanov Đ. Ljiljana
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:

In this course students will be introduced to the basic techniques of shape display – curves, surfaces, and other geometric objects. Analytical methods are used and also different numerical methods of approximation necessary in the practice when starting from the discrete set of points.

2. Educational outcomes (acquired knowledge):

Acquisition of basic knowledge in the field of parametric and non-parametric display of curves, surfaces and other objects in space. Understanding the basic techniques as well as their practical application in the professional practice problems.

3. Course content/structure:

Cruves in space – given explicitly, implicitly, parametrically. Surfaces – parameterization, polygonization. Numerical mathods for approximation of curves and surfaces – interpolation polinomials, Hermite splines, uniform and non-uniform B- splines, Bezier curves and surfaces, least squares approximation. Methods of filtering curves and surfaces and adequate optimization algorithms.

4. Teaching methods:

Lectures, Audio and Computer Practice. Consultations. During the Audio Practice the knowledge from the lectures is applied and practiced. During the practice studied algorithms are tested and their applicability is studied and analyzed. During the semester students work on the term paper which is worth 25% of the points. In the written part of the examination the student may win up to 50% of the points, and in the oral part of the examination up to 20% of the points. In order for the student to pass the examination, he/she has to win at least one half of the possible point at the written part of the examination and to show satisfying knowledge at the oral part of the examination. The course grade is formed based on the won points in the term paper, written and oral part of the examination.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Homework	Yes	5.00	Written part of the exam - tasks and theory	Yes	50.00
Homework	Yes	5.00	Oral part of the exam	Yes	20.00
Term paper	Yes	20.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	J. Hoschek, D. Lasser	Fundamentals of computer aided geometric design		1993
2,	Ljiljana Teofanov	Skripta sa predavanja		2013

Table 5.2 Course specification

Course:		Mechanics
Course id:	A207	
Number of ECTS:	4	
Teachers:		Grahovac M. Nenad, Spasić T. Dragan
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:

Professor's intention is to teach the student the following through this course: - to learn the basic concepts and definitions in mechanics as science about forces, that is, movement and body deformation under the influence of forces, - to understand the need of those concepts in the context of studying how to set the problem and how to solve the problem, - to develop the ability to recognize mechanics problems in the sense of identification, model formulation and possible solution, - to know basic principles of engineering thinking and decision making.

2. Educational outcomes (acquired knowledge):

After this course the student should be able to: - connect acquired knowledge with the course of material resistance which follows directly, as well as to apply it in the engineering disciplines which use mechanics as a tool, -to recognize different movement of real systems, affects of different influence (forces and coupling forces), to analyze friction and energy balance, - to communicate with other engineers and work in a team, - to independently practice, diligently work and creatively think (to demonstrate understanding and skills as well as to use the knowledge for the design of new solutions of engineering problems), - to continue to study mechanics independently if there is a need for that.

3. Course content/structure:

Studying objects and their basic movement. Force, momentum for the point (and axis) coupling forces. Force systems and coupling forces. Examples 1-16. Basic attributes of point movement. Global and local properties of the rigid body motion. Matrix method of assigning movement. Euler's theorem. The complex movement of the point. Theorem Koriolis. Examples 17-40. Axioms of dynamics. Momentum, angular momentum for the selected point, the kinetic energy of the material point and theorems on their changes. Basic theorems of the system dynamics. Equivalent systems of forces. Newton-Euler equations. Canning Theory. General case of the rigid body motion. Linear complementary problems. Examples 41-80. Poisson's Theorem. Invariants of the force system. Balance conditions of one and more bodies. Examples 81-100. Examples always start with the simplest problems and end with specific engineering applications. For example, engine crankshaft, ball bearing, universal (Cardan) joint , disk on the rough plane; free, forced and damped oscillatorions with one and two degrees of freedom, the dynamic damper, the dynamic balancing of rotors and the like. In the examples, different models of friction, elements of the impact theory, as well as the load of carrier lines are studied.

4. Teaching methods:

The deductive method is used in the lectures. Concepts and methods which can be applied for solving a great number of problems are selected. Seldom is the same problem solved with more different methods. Active participation of students is recommended so that each lecture is understood in class. A part of the examples is done in the lectures, and the rest is done in practice but also independently at home as a homework assignment. Student who complete homework assignment in each group of examples acquire the right to take the examination during semester, thus passing the whole or a part of the practical part of the examination right after the lectures. Besides regular, there are also pre-examination consultations as computer practice with direct application for the knowledge testing in one part of the course, by computer animation and internet guides. Practical part – problems passed during the semester are valid only in the first examination period that follows. Only students who pass

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

Literature

Ord.	Author	Title	Publisher	Year
1,	Markeev	Teorijska mehanika	Nauka Moskva	1990
2,	Spasić	Mehanika	u pripremi	2007
3,	Kolesnikov	Zbirka zadataka iz mehanike	Nauka Moskva	1984
4,	Glocker Ch. and Pfeiffer F.	Dynamics of systems with unilateral constraints	Springer	1999
5,	Meščerski I.V.	Zbirka zadataka iz teorijske mehanike	Nauka, Moskva	1986

Literature

Ord.	Author	Title	Publisher	Year
6,	R. Leine and H. Nijimeijer	Dynamics and bifurcation of non-smooth mechanical systems	Springer- Berlin	2004

Table 5.2 Course specification

Course:	Classical Animation
Course id: IA004	
Number of ECTS: 4	
Teacher:	Janev B. Jelena
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:

Train students in basic principles of Classical Animation. Train sensibility for timings and movement expressions. Development of creative approaches in representations of movement.

2. Educational outcomes (acquired knowledge):

Making a solid base for greater quality in work of computer animator. Apply animation techniques in further education and professional work.

3. Course content/structure:

The subject consist from lectures and exercises in 3 types of classical animation: stop-motion animation, cut-out animation and hand-drawn animation. The aim of the program is training in basic principles of animation: frame in seconds, keyframes, inbetweens and breakdowns, timing and speed of movements, easing, squeeze and stretch, anticipations and special effects.

4. Teaching methods:

Lectures and exercises. Consultations.
Exam grade is summary of lessons attendance and works from exercises during semester.

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	30.00			
Project	Yes	30.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Borivoj Dovniković	Škola crtanog filma	Filmoteka 16 i Filmska kultura, Pula	1983
2,	Preston Blair	Cartoon Animation	Walter Foster	1994

Table 5.2 Course specification

Course:		Discrete and Combinatorial Methods for Computer Graphics
Course id:	IAM002	
Number of ECTS:	4	
Teacher:		Pantović B. Jovanka
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:

In the course students will get introduced to the basic techniques of combinatorics optimization and combinatorics algorithms. Combinatorics algorithms, optimization and searching algorithms above all, are applied to discrete structures and are inevitable tools in the field of computer science. In the case of large space search, deterministic procedures become inadequate, and the need for heuristic method is necessary.

2. Educational outcomes (acquired knowledge):

Acquisition of basic knowledge in the field of discrete methods of search and combinatorics optimization. Understanding basic techniques, as well as their application to some known combinatorics and/or optimization problems.

3. Course content/structure:

Sorting, searching, algorithms, complexity. Graph. Representation of graphs. Digraphs.Trees. Algorithms on graphs. Connectivity testing. The shortest path. Minimal spanning tree. Network algorithms.

4. Teaching methods:

Lectures and Auditory Practice. A part of the practice is carried out in the computer laboratory. Consultations.
During the Auditory Practice knowledge from lectures is being practiced. During the computer practice studied algorithms are tested and their application is studied and analyzed.
During the semester students work on a term paper which is worth 25% of the points.
Parts of the course which represent a logical whole may be taken in the form of colloquiums. If the student wins at least 40% of possible points on each colloquium, it is considered that the student passed the written part of the examination. Otherwise, the student has to take written and oral part of the examination. In the written part of the examination the student may win up to 50% of the points, and in the oral part of the examination up to 20% of the points. In order for the student to pass the examination, he/she has to win at least one half of possible points in the written part of the examination and to sho

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	20.00
Term paper	Yes	20.00	Practical part of the exam - tasks	Yes	50.00

Literature

Ord.	Author	Title	Publisher	Year
1,	Pantović Jovanka	Skripta		2011
2,	Dragan Acketa	Odabrana poglavlja teorije prepoznavanja oblika sa primenama		1986
3,	M. Atallah	Algorithms and theory of computation handbook	CRC Press, London	1999
4,	R. Vanderbei	Linear programming-foundations and extensions	Springer	2008

Table 5.2 Course specification

Course:		Mathematics for Engineering Graphics
Course id:	IGA008	
Number of ECTS:	9	
Teacher:		Sladoje Matić I. Nataša
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:

In the course students will get introduced to the mathematical contents which are the basis for solving problems in the field of animation and computer graphics. The emphasis is on the connection of practical contents and concepts students are dealing with in other courses within this master programme with the mathematical formulation of those concepts.

2. Educational outcomes (acquired knowledge):

Acquisition of complete knowledge about problems, tools and methods within engineering graphics and animation; understanding theoretical – mathematical basis in this field and the practical use.

3. Course content/structure:

Transformations in the plane (translation, rotation, scaling, composition of transformations). Projections. Transformation in space (scaling, rotation, translation, composition of transformations). Symmetry. Affine and perspective geometry. Projection.Curves in the plane. Conic sections. Curves in space. Displaying and generating surfaces. Rotational and other surfaces. Mapping of the surface. Main topological properties of 2D and 3D objects. Polyhedra.

4. Teaching methods:

Lectures and auditory practice. Parts of the practice can be organized in the computer laboratory. Consultations.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project task	Yes	15.00	Written part of the exam - tasks and theory	Yes	40.00
Project task	Yes	15.00	Oral part of the exam	Yes	10.00
Term paper	Yes	20.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Nataša Matić Sladoje	matematika za inženjersku grafiku - skripta sa predavanja	Fakultet tehničkih nauka, Novi Sad	2010
2,	David F. Rogers, J. Alan Adams	Mathematical Elements for Computer Graphics	McGraw-Hill Publishing Company	1990
3,	Michael E. Mortenson	Mathematics for Computer Graphics Applications	Industrial Press, Inc. New York	1999
4,	John Vince	Mathematics for Computer Graphics	Springer	2006

Table 5.2 Course specification

Course:		Video in Engineering Animation
Course id:	IGB034	
Number of ECTS:	5	
Teachers:		Obradović M. Ratko, Zlokolica M. 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:

Acquisition of basic knowledge in visual perception of video signals and digital processing of video signals. Introduction to the techniques of motion modeling in a video signal and the method of compression and video indexing.

2. Educational outcomes (acquired knowledge):

To apply acquired knowledge in further educational process as well as in the future profession. Specifically, introduction to the basic features of video signals, algorithms for video signal processing, motion modeling and video perception. Additionally, the outcome is the knowledge of video acquisition methods, video compression and format conversion of the video signal.

3. Course content/structure:

Formation and representation of digital video signal. Visual perception of the video signal and modeling the video signal quality. Frequency analysis of the video signal and spatial-time video selection. Modeling and estimation of motion in the video signal and video segmentation based on the motion of spatial texture. Fundamentals of filtering and interpolation of the video signal. Extracting typical features/properties and arranging video animation based on that. 3D video modeling and multiview video sequence processing. Video compression and coding for storage, transfer in multimedia systems. Video indexing, search and return. Video signal protection.

4. Teaching methods:

Lectures and Computer Practice. Consultations. Computer Practice is based on mastering and understanding the basic approach to video signal processing using MATLAB and C programming language. For video signal processing in C programming language, it is necessary to master C libraries for video handling. Final grade is formed based on the lecture and practice attendance, success at the semester obligations, project work and oral examination related to the project work.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Computer exercise attendance	Yes	5.00	Written part of the exam - tasks and theory	Yes	30.00
Lecture attendance	Yes	5.00			
Project	Yes	30.00			
Project task	Yes	15.00			
Project task	Yes	15.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Vladimir Zlokolica	Video u inženjerskoj animacija - Skripta sa predavanja	Fakultet tehničkih nauka	2010
2,	Y. Wang, J. Ostermann, Y.-Q. Zhang	Video Processing and Communications	Prentice Hall	2002
3,	M. Tekalp	Digital Video Processing	Prentice Hall	1995
4,	John. W. Woods	Multidimensional Signal, Image, and Video Processing and Coding	Elsevier	2006
5,	Alan C. Bovik	The Essential Guide to Video Processing	Elsevier	2009

Table 5.2 Course specification

Course:		Acoustics and Audio Engineering in Multimedia
Course id:	EK312L	
Number of ECTS:	5	
Teachers:		Delić D. Vlado, Sečujski S. 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	0

Precondition courses: None

1. Educational goal:

Audio is an important part of multimedia animations, videos, computer games and films. Students need to understand the nature of sound and its main characteristics. Explain what and how people can hear and how they perceive different sound pressure levels and the frequency content of sound and how a person perceives the direction of the sound source. Explain how both the transmission and perception of sound are influenced by enclosed areas such as rooms and studios. Present the audio signals (speech and music) in more detail, as well as audio equipment for recording and playback, and the tools for analysis and processing of souds in multimedia environment on a computer.

2. Educational outcomes (acquired knowledge):

Students will learn how sound waves are produced and how they propagate, what a human being can hear and how sound affects humans, as well as how sound is recorded, transmitted and reproduced. They will understand the differences in the behavior of sound both indoors and outdoors. They will be able to evaluate the acoustic environment (in terms of speech intelligibility, quality of listening to music), and to select and place audio-equipment for recording of speech, music, and ambiental sound. They will get skills to use the computer for processing of audio clips and fit them into a multimedia environment.

3. Course content/structure:

•The physical characteristics of sound (the rules for the production and propagation of sound waves). •Sound perception (auditory area; binaural localisation, sound masking effect, speech and music features). •Microphones, loudspeakers and headphones (principles and characteristics, microphone areas for 3D sound recording). •Audio mixers (audio-visual controls, level regulation, filters, regulation of dynamics and reverberation, monitoring and sound editing, multi-channel recording (5.1, 7.1, 10.2,...)). •Acoustical quality of both professional rooms and systems for sound recording and reproduction (objective measurements and subjective assessments of sound area features, optimal conditions for sound recording and reproduction). •Audio systems for recording of voice and music program and audio effects (selection and placement of microphones, sound for film and video). •Formats for recording, transmission and storing of audio information in multimedia environment on a computer (MIDI, MPEG, HD and 3D sound). •Virtual space sound (3D-space sound processing using 2D recording and reproduction, coding and decoding in systems for shaping of virtual space sound). •Computer-based professional audio systems for sound recording and reproduction, audio mixer driving, software tools for music arrangement and processing, multichannel systems and their compatibility, program material exchange (Sound Forge). •Sound systems design for both indoors and outdoors. Microphone and loudspeaker systems for high quality reproduction.

4. Teaching methods:

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

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Presentation	Yes	10.00	Written part of the exam - tasks and theory	Yes	50.00
Term paper	Yes	20.00	Coloquium exam	No	20.00
Test	Yes	10.00			
Test	Yes	10.00			

Literature

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

Table 5.2 Course specification

Course:		Computer Image Processing in Engineering Animation
Course id:	IGA003	
Number of ECTS:	4	
Teacher:		Stojaković Z. Vesna
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:

Educating and enabling students for digital image design and processing.

2. Educational outcomes (acquired knowledge):

To apply acquired knowledge in further educational process as well as in the future professional work.

3. Course content/structure:

Introduction, definition and clarification of basic concepts. Properties and development of digital image. Types of digital images, raster and vector images. Analog, digital and hybrid photography. Cameras, camera components and accessories. Relationship between space and image. Image composition and perspective. Panoramas and their role in space simulation. Brightness. Transmission, cataloging and archiving of images. Tools for modification, adaptation and correction of digital images. Ways of production. Advanced techniques in digital image processing. Changing properties and composition of digital images. Digital images in engineering animation.

4. Teaching methods:

Lectures and Practice in the computer laboratory. Consultations.
The course grade is formed based on the examination prerequisites (course projects and lecture and practice attendance) and success at the final examination. In order to be able to take the final examination, the student must fulfill at least 30% of examination prerequisites.

Knowledge evaluation (maximum 100 points)

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

Literature

Ord.	Author	Title	Publisher	Year
1,	J.G. Blair	Alternative Digital Photography	Thomson	2008
2,	J. Dickman, J. Kinghorn	Perfect Digital Photography	McGrow Hill	2009
3,	--	Adobe Photoshop CS5 Classroom in a Book	Adobe Creative Team	2010
4,	--	Adobe Photoshop Lightroom 3 Classroom in a Book	Adobe Creative Team	2010
5,	--	Adobe Illustrator CS5 Classroom in a Book	Adobe Creative Team	2010
6,	Layers	The Complete Guide to Photoshop's Most Powerful Feature	Peachpit Press	2008

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:		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:		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:		Fundamentals of Engineering Animation
Course id:	IGB340	
Number of ECTS:	9	
Teachers:		Obradović M. Ratko, Zlokolica M. Vladimir, Ćulibrk R. Dubravko, Kovačević V. Jelena
Course status:		Mandatory

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

Precondition courses: None

1. Educational goal:

Enabling students to produce computer animation, introduction to the basic concepts and methods for animation generation.

2. Educational outcomes (acquired knowledge):

To apply acquired knowledge in the further educational process as well as in the future professional work.

3. Course content/structure:

Modeling hierarchal kinematics. Movable segments, types of joint connections. Simulation of physical effects. Surrounding. Coloring 3D models and rendering. Application of different application software. Sketching: 3D scene. Sketching as an animation base. History of animation and computer animation. Creative development of animation: scenario preparation, scene and character analysis. Character design, making production strategy, creating teams for technical realization of animation, scene assembly (image and sound). Modeling: space, objects and structures. Transformations, global and local. Modeling techniques, curves, primitives, surfaces. Fractal geometry, particles system, plant modeling, physical features modeling. Modeling skin, hair and clothing. Rendering: light, cameras and materials. Color models, RGB, HSL. Different rendering models: Z-buffer, Ray Tracing. Brightness and reflection. Shading: diffuse, specular, smooth, ambient, RenderMan Shading. Mapping images, creating maps, real time maps, positioning maps, blending maps. Surface reflection.

4. Teaching methods:

Lectures and Practice in the computer laboratory. Consultations. Computer practice is based on the use of 3D Studio Max, After Effects and Premiere softwares. During the semester colloquiums are organized after completed thematic wholes. During the semester computer animation are being done and each students work on his/her own personal animation, but also the Practice group creates a common animation. In order for the student to pass the examination, besides other prerequisites, he/she has to win at least 30% of the points in each obligation.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Computer exercise attendance	Yes	5.00	Written part of the exam - tasks and theory	Yes	30.00
Lecture attendance	Yes	5.00			
Project	Yes	30.00			
Project task	Yes	15.00			
Project task	Yes	15.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Alan Watt	3D Computer Graphics	Addison-Wesley	2008
2,	Rick Parent	Computer Animation Algorithms & Techniques	Elsevier	2008
3,	Alan Watt, Fabio Policarpo	3D Games Real-Time rendering and Software Technology	Pearson, Addison Wesley	2001
4,	Edward Angel	Interactive Computer Graphics, A Top-Down Approach Using OpenGL	Addison-Wesley	2003
5,	Mark Gerhard, Jeffrey Harper, Jon McFarland	Mastering Autodesk 3ds Max Design 2010	Wiley Publishing	2009
6,	Boaz Livny	Mental Ray for Maya, 3ds Max and XSI a 3D artist's guide to rendering	Wiley Publishing	2008
7,	Pete Draper	Deconstructing the Elements with 3ds Max Create natural fire, earth, air and water without plug-in	Autodesk	2009

Table 5.2 Course specification

Course:		Advanced Display Technologies
Course id:	IA020	
Number of ECTS:	7	
Teachers:		Obradović M. Ratko, Zlokolica M. Vladimir
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:

Acquisition of basic knowledge in video games, ways of video synthesis through animation and introduction to the typical software tools for production and necessary hardware support.

2. Educational outcomes (acquired knowledge):

The knowledge of basic characteristics of video games and ways of their production.

3. Course content/structure:

3D modeling of people, scenes in space and deformations based on the video recording from the real world; Points, polygons and shadows related to objects in video games; Textures in video games and their modeling; Extraction of object motion in the real world on the basis of the multiple moving video camera systems; Artificial synthesis of motion and connection of key video frames in animation; Removing digital interference and connection of key frames; Interaction of objects in video games and their mutual deformation; Interactive animation in video games; Programmable machines of state in video games; Software for video game production; Hardware supporting the operation of video games.

4. Teaching methods:

Lectures and Computer Practice. Consultations.
Computer practice is based on mastering and understanding the basic approach to video signal processing in video games and animations related to them. Introduction to the DirectX and OpenGl.

Knowledge evaluation (maximum 100 points)

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

Literature

Ord.	Author	Title	Publisher	Year
1,	Vladimir Zlokolica	Napredne prikazne tehnologije - Skripta	Fakultet Tehničkih nauka, Novi Sad	2010
2,	W. Muehl, J. Novak	Game Development Essentials: Game Simulation Development	Thomson Delmar Learning, NY, USA	2007

Table 5.2 Course specification

Course:		Storyboard
Course id:	IA012	
Number of ECTS:	7	
Teacher:		Vujanović D. Miloš
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:

Enabling and introducing student to the working process of Storyboard.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is applied in the further educational process as well as in the future professional work.

3. Course content/structure:

Reading the scenario, interview with the director, knowledge of characters, scenography, internal and external architecture, landscape, plants, furniture, means of transportation, clothing, style… Types of plans and their drawing. Types of staff and connecting frames, movement in frames. Body posture in the frame for Storyboard; one, two and three. Group scenes and metamorphosis Action, action axis and their monitoring and representation. Space in the frame by depth and surface of the screen and perspective. Viewing angle horizontally, vertically, diagonally, and slope of the frame. Composition of the frame, balance, feeling and perception of space as well as its suggestion in the drawing. Video camera position, marking the camera movement, zooming, inserting, sharpness. Cuts, marking the cuts, types of cuts and other signs. Time in the movie. Dialog and its marking. The use and the meaning of colors. Light, shadows and textures. Relationship between the movie and the storyboard. Types of drawings for the storyboard, goals and work approach.

4. Teaching methods:

Lectures and Practice in the drawing office. Consultations

Knowledge evaluation (maximum 100 points)

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

Literature

Ord.	Author	Title	Publisher	Year
1,	Miloš Vujanović	Storyboard - Skripta	Fakultet tehničkih nauka, Novi Sad	2010
2,	Mark T. Byrne	The Art of Layout And Storyboarding	A. Mark T. Byrne Publication, Leixlip, Co. Kildare, Ireland	1999
3,	Walt Stanchfield	Gesture Drawing for Animation	Leo Brodie, Washington	2007

Table 5.2 Course specification

Course:	Fundamentals of Information Systems and Software Engineering
Course id: E235	
Number of ECTS: 6	
Teachers:	Perišić R. Branko, Dejanović R. Igor
Course status:	Elective

Number of active teaching classes (weekly)

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

Precondition courses: None

1. Educational goal:

Knowledge about the basics of software design and information system design. Students learn about the application of different methodological approaches in software design and understand the place of software within a complex information system. Students are able to develop complex, standard based software solutions based on object platform.

2. Educational outcomes (acquired knowledge):

After completing the course students are able to independently implement complex software solutions, design graphical user interface based on specified standards and manage data storage based on textual databases using object platform. Students also acquire the bases of professional software development and information system design.

3. Course content/structure:

Theoretical part: Fundamentals of software engineering, motivation and problems, definition of profession and structure of knowledge. Software demands, design, construction, testing, maintenance and software configuration management. Software lifecycle models, quality and related disciplines. Basic notions of system programming. Fundamentals of information system design, concept of modern information system organization. Phases of information system evolution. Challenges of modern information technologies and concepts in information system design. Business information system architecture.
Practical part: Object oriented programming repetition, elements of object platform, standard template library, visual components standard library. Advanced concepts of object oriented programming.

4. Teaching methods:

Within the theoretical part of the course a selected example of the simplified, data oriented, real system is specified where, during the practical part of the course, steps in the individual phases of a software lifecycle can be practiced (request analysis, design specification, implementation, testing, etc). Having practiced the early phases of lifecycle, the students get individual tasks to implement based on the standards of user interface, on the object platform they are capable of using based on the prerequisite course.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Homework	Yes	5.00	Theoretical part of the exam	Yes	25.00
Homework	Yes	5.00	Practical part of the exam - tasks	Yes	25.00
Laboratory exercise attendance	Yes	5.00			
Lecture attendance	Yes	5.00			
Project defence	Yes	30.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Branko Perišić	Osnovi informacionih sistema i softverskog inženjerstva	Elektronska verzija-PDF	2007
2,	S.L.Pfleeger, J. M. Atlee	Software engineering Theory and Practice", third edition	Prentica Hall	2006
3,	B. Shniederman	Designing The User Interface	Addison Wesley	2002
4,	G. Curtis, D. Cobham	Business Information Systems Analysis, Design and Practice	Prentica Hall	2002
5,	B. Eckel	Thinking in C++ Volume 1 and 2 (elektronska verzija)	Elektronska verzija-PDF	2000

Table 5.2 Course specification

Course:	WEB Design
Course id: F501	
Number of ECTS: 5	
Teachers:	Marković -. Milan, Sladić S. Goran, Vidaković P. Milan
Course status:	Elective

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 enable students to handle technologies for web content design and to introduce students with web design principles.

2. Educational outcomes (acquired knowledge):

Students are enabled for individual work in area of creating complicated web contents.

3. Course content/structure:

Fundamental technologies for web design: HTML, xHTML, CSS. Characteristics of the Internet network and HTTP protocol. Multimedia data types on the web. Streaming. Web site usability: page design, content design, web site design. Presentation for persons with special needs. Multilingualism and localization of content.

4. Teaching methods:

Consultations, computer practice, lectures.

Knowledge evaluation (maximum 100 points)

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

Literature

Ord.	Author	Title	Publisher	Year
1,	Dave Lawrence, Soheyla Tavakol	Balanced Website Design - Optimising Aesthetics, Usability and Purpose	Springer-Verlag	2007
2,	Jacob Nielsen	Designing Web Usability	Peachpit Press	1999
3,	Bryan Pfaffenberger et al.	HTML, XHTML, and CSS Bible	John Wiley and Sons	2004

Table 5.2 Course specification

Course:		Selected Chapters in Kinematics
Course id:	IAKI01	
Number of ECTS:	5	
Teachers:		Cvetićanin J. Livija, Zuković M. Miodrag
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:

Intention is to teach the student basic concepts and definitions in kinematics through this course, that is, to make him understand substantial kinematics concepts in moving objects.

2. Educational outcomes (acquired knowledge):

The knowledge of kinematics enables us to adequately analyze mechanical problems occurring in engineering animations. Complex motion between multiple objects is much easier to study while relaying on modern mechanics and kinematics.

3. Course content/structure:

Point kinematics. Rigid body kinematics. Translational motion of the body. Body rotation around the fixed axis. Planar body motion. The complex movement of the point. Body rotation about the fixed point. Movement stacking. Fundamentals of graphic presentation of movement (cinematography). Visualization of the point movement. Visualization of body movement.

4. Teaching methods:

Lectures and Audio-Practice. A part of the practice classes can be organized in the computer laboratory. Consultations.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance	Yes	5.00	Theoretical part of the exam	Yes	25.00
Lecture attendance	Yes	5.00	Practical part of the exam - tasks	Yes	25.00
Term paper	Yes	20.00			
Term paper	Yes	20.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Đ. Đukić, L. Cvetićanin	Kinematika	Univerzitet u Novom Sadu, FTN, Novi Sad	2009
2,	Đ. Đukić, T. Atanacković, L. Cvetićanin	Mehanika	Univerzitet u Novom Sadu, FTN, Novi Sad, 2008.	2008

Table 5.2 Course specification

Course:		Aesthetics of Visual Communications
Course id:	IGA031	
Number of ECTS:	7	
Teacher:		Popkonstantinović D. Branislav
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:

Enabling students to appreciate, create and creatively use value judgment of the sentiment in all forms of visual communications, and especially in the media such as: sound, video/movie, multimedia, internet and virtual reality. Development of the skills for forming the judgment of aesthetic evaluation of visual impression through empathy process about categories such as: harmony, wholeness, beauty, sublimity, gracefulness, amusement…

2. Educational outcomes (acquired knowledge):

To apply acquired knowledge in the further educational process as well as in the future professional work.

3. Course content/structure:

Concept, definition and importance of aesthetics in visual communications; factors of sentiment judgment: objective and subjective, conscious and unconscious; aesthetic phenomena of bad taste: kitsch, camp and trash; universal principles of aesthetics of visual communications: rational-cognitive and principles of unconscious factors; Rationally cognitive: mathematical and geometric based on the golden section, geometric transformations etc. Principles of unconscious factors: archetypes, gestalt, immersion, 3D illusions… Aesthetics of graphics: technical aspects, the elements (line, figure, form, movement, texture and color) and principles (projection, balance, proportion, rhythm, emphasis and unity) of graphic expression; aesthetic characteristics and theories of color perceptions; types of projections and their use in visual aesthetics.

4. Teaching methods:

Lectures, Computer Practice. Consultations.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Computer exercise attendance	Yes	5.00	Written part of the exam - tasks and theory	Yes	30.00
Lecture attendance	Yes	5.00			
Project	Yes	30.00			
Project task	Yes	15.00			
Project task	Yes	15.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Branislav Popkonstantinović	Estetika vizualnih komunikacija -skripta sa predavanja	Fakultet tehničkih nauka, Novi Sad	2010
2,	William C. Wees	Light Moving in Time: Studies in the Visual Aesthetics of Avant-Garde Film	University of California Press	1992
3,	Jacques Maquet	The Aesthetic Experience: An Anthropologist Looks at the Visual Arts	Yale University Press	1988
4,	William Lidwell, Kritina Holden, Jill Butler	Universal Principles of Design	Rockport Publishers	2003

Table 5.2 Course specification

Course:		Engineering Animation and Other Media
Course id:	IGB052	
Number of ECTS:	6	
Teachers:		Šiđanin S. Predrag, Tepavčević B. Bojan
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:

Enabling students to notice possibilities of connecting computer animations to the related media, where it is often used. Those media are sound, video/film, multimedia, internet and virtual reality.

2. Educational outcomes (acquired knowledge):

To apply acquired knowledge in the further educational process as well as in the future professional work.

3. Course content/structure:

Introduction and definition/clarification of basic concepts (glossary): animations, computer animation, sound, video, film, multimedia (hypermedia), internet (world wide web). Overview of the development and characteristics of each of these media. Role, relationship and contribution of computer animation to the implementation in these media; improvement of these media by computer animation; synthesis and future development of integration of these media and computer animation. Overview of the software necessary for integration of computer animation and specific media. Social contribution and possibilities of application of integration of computer animation and related media.

4. Teaching methods:

Lectures and Practice in the computer laboratory. Consultations.

Computer Practice is based on mastering the software for recording, processing and implementation of the sound and sound effects into computer animation, by using the software: Steinber Wavelab, Steinberg Nuendo and Sony Sound Forge.
A part of the course which represents a logical whole is passed through the colloquiums. Colloquiums are done in the computer laboratory. The student may take the next colloquium if he/she previously won at least 30% of the points. Colloquiums are taken on the computer by practical solving of the given problems. In order for the student to pass the examination, besides other prerequisites he/she has to win at least 30% of the points in each of the colloquiums.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Computer exercise attendance	Yes	5.00	Written part of the exam - tasks and theory	Yes	30.00
Lecture attendance	Yes	5.00			
Project	Yes	30.00			
Project task	Yes	15.00			
Project task	Yes	15.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Predrag Šiđanin	Inženjerska animacija i drugi mediji - Skripta	Fakultet Tehničkih nauka	2010
2,	Ivo Blaha	Osnove dramaturgije zvuka u filmskom i televizijskom delu	FDU i RTS	1993
3,	Zoran Simjanović	Primenjena muzika	Bikić Studio, Beograd	1966
4,	Milomir Filipović	Audio tehnika	Zavod za udžbenike i nastavna sredstva, Beograd	1996
5,	Mišel Šion	Audiovizija, zvuk i slika na filmu	Klio, Beograd	2007
6,	Dejvid Kuk	Istorija filma 1 i 2	Klio, Beograd	2005

Table 5.2 Course specification

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

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

Precondition courses: None

1. Educational goal:

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:		Digital Image Processing
Course id:	EK421	
Number of ECTS:	5	
Teachers:		Crnojević S. Vladimir, Sečujski S. Milan
Course status:		Mandatory

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

Precondition courses: None

1. Educational goal:

Introduction to the basic concepts in the field of digital image processing; introduction to the contemporary methods in digital image processing.

2. Educational outcomes (acquired knowledge):

An overview of principles of contemporary methods for digital image processing.
Ability to understand the basic principles and methods used in digital image processing, possibility of independent realization of simple systems for digital image processing, as well as possibility of simple extension of knowledge by working on a specific problem.

3. Course content/structure:

Introduction to digital image processing. Basic concepts in image processing. Image improvement in space domain. Image improvement in frequency domain. Image restoration. Color image processing. Image compression.

4. Teaching methods:

Lectures; Computer Practice; Consultations.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project defence	Yes	30.00	Theoretical part of the exam	Yes	70.00

Literature

Ord.	Author	Title	Publisher	Year
1,	Rafael Gonzalez, Richard Woods	Digital Image Processing	2nd Ed.	2002

Table 5.2 Course specification

Course:		Special Visual Effects
Course id:	IGA055	
Number of ECTS:	7	
Teachers:		Obradović M. Ratko, Zlokolica M. Vladimir
Course status:		Mandatory

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
2	0	4	0	0

Precondition courses: None

1. Educational goal:

Enabling students to solve complex problems in the field of special visual effects.

2. Educational outcomes (acquired knowledge):

To apply acquired knowledge in the further educational process as well as in the future professional work.

3. Course content/structure:

Lights and Shadows. Dynamics. Particle systems. Liquids simulation. Cloth Modeling. Computer generated hair-style and hair.

4. Teaching methods:

Lectures and Practice in the computer laboratory. Consultations. Computer Practice is based on the use of 3D Studio Max and After Effects softwares. During the semester computer animations are done and each student will work on his/her own animation.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Computer exercise attendance	Yes	5.00	Written part of the exam - tasks and theory	Yes	30.00
Lecture attendance	Yes	5.00			
Project	Yes	30.00			
Project task	Yes	15.00			
Project task	Yes	15.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Pete Draper	Deconstructing the Elements with 3ds Max, Create natural fire, earth, air and water without plug-in	Autodesk & Elsevier	2009
2,	Donald House, Devid Breen	Cloth Modeling and Animation	A K Peters	2000
3,	Robert E. McCarthy	Secrets of Hollywood Special Effects	Butterworth-Heinemann	1992

Table 5.2 Course specification

Course:		Interactive Engineering Graphics
Course id:	IA013	
Number of ECTS:	7	
Teachers:		Milojević D. Zoran, Navalušić V. Slobodan
Course status:		Mandatory

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

Precondition courses: None

1. Educational goal:

Introducing students to the principles of Interactive engineering graphics and enabling student for independent development of applications.

2. Educational outcomes (acquired knowledge):

To apply acquired knowledge in the field of interactive engineering graphics and development of applications by the use of VTK and OpenGL libraries in further education as well as in the future professional work.

3. Course content/structure:

Introduction to the interactive engineering graphics. Introduction to the VTK (Visualization ToolKit) by object oriented library for the 3D graphic display. Basic classes for scene identification (vtkRenderWindow, vtkRenderer, vtkActor, vtkLights, vtkCamera, vtkMapper) by application of VTK library. Importing previously generated models in 3DS format in the working environment (vtk3DSImporter). Spatial transformations (translation, rotation and scaling) in the VTK environment. Defining interaction of the user with the environment (vtkRenderWindowInteractor). Defining texture and its import in the working environment (vtkTexture). Generating 3D models by application of Marching cubes algorithm, based on the series of recordings. Principles of visualization of vector fields from different engineering fields. Introduction to OpenGL and GLUT library. Structure of the software for engineering graphics by application of GLUT library. Representation of the model description (CSG, B-Rep, Voxel and Dexel). Algorithms of spatial space classifications (Octree, Quadtree and BSP classifications). Fundamentals of virtual reality (concept definition, principles, input and output devices). Defining the active stereotypical display by application of OpenGL library and CrystalEyes stereo glasses. Application of haptical device Phantom Omni, for object manipulation in the virtual space.

4. Teaching methods:

Lectures, Computer Practice and Consultations.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Computer exercise attendance	Yes	5.00	Written part of the exam - tasks and theory	Yes	30.00
Lecture attendance	Yes	5.00			
Presentation	Yes	10.00			
Project task	Yes	30.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Schroeder, W., Martin, K., Lorensen, B.	Visualization Toolkit – An Object Oriented Approach to 3D Graphics, The third edition	Kitware Inc	2002
2,	Angel, E.	Interactive Computer Graphics, A top-Down Approach Using OpenGL	Pearson Education	2003
3,	Angel, E.	OpenGL, A Primer	Addison-Wesley	2002
4,	4.Foley, J.D, van Dam, A., Feiner, S.K., Hughes, J.F.	Computer Graphics: Principles and Practice	Addison-Wesley	1996
5,	Milićev, D.	Objektno orijentisano programiranje na jeziku C++	Mikro knjiga	1996
6,	SensAble Technologies, Inc.	OpenHaptics toolkit version 3.0 – Programmers-Guide	SensAble Technologies, Inc.	2008

Table 5.2 Course specification

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

Number of active teaching classes (weekly)

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

Precondition courses

1. Educational goal:

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

2. Educational outcomes (acquired knowledge):

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

3. Course content/structure:

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

4. Teaching methods:

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

Knowledge evaluation (maximum 100 points)

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

Literature

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

Table 5.2 Course specification

Course:		Colors and Light
Course id:	IAFI01	
Number of ECTS:	5	
Teachers:		Budinski-Petković M. Ljuba, Lončarević M. Ivana
Course status:		Mandatory

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

Precondition courses: None

1. Educational goal:

Enabling students to acquire modern theoretical and practical knowledge about color as a significant segment of engineering animation.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in further education and professional work.

3. Course content/structure:

Electromagnetic wave propagation. Spectrum of electromagnetic radiation. Light as a natural phenomenon. Color as a natural phenomenon. Observation and differentiation of colors.
Blending spectrum colors. Basic optical properties of materials. Light in anisotropic surrounding. Optical activity. Light scattering. Optical sources. Filters. Fundamentals of lasers. Application of lasers. Propagation of light through optical fibers. Introduction to luminescence. Mechanisms of luminescence in different materials. Displays. Holography. Basic concepts in photometry, size and units. Measurement of light intensity.

4. Teaching methods:

The course is held using modern didactic means and methods interactively in the form of lectures and practice.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance	Yes	5.00	Written part of the exam - tasks and theory	Yes	35.00
Lecture attendance	Yes	5.00	Oral part of the exam	Yes	35.00
Term paper	Yes	20.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Budinski-Petković M. Ljuba, Ivana Lončarević	Boje i osvetljenost - Skripta	Fakultet tehni	2010
2,	R.J. Collier, C.B.Burckhardt, L.H.Lin	Optical Holography	Academic Press	1971
3,	Hariharan	Basics of Holography	Cambridge University Press	2002
4,	K.A. Jones	Introduction to Optical Electronic	John Wiley and Sons New York	1996

Table 5.2 Course specification

Course:		Formal Mathematical Models
Course id:	IAM003	
Number of ECTS:	4	
Teacher:		Gilezan K. Silvia
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:

Introduction to the discrete functions and with their role in object classification, as well as with the abstract representations of computer systems by application of mathematical logics concepts. In order to prepare students for the more complex development of computer software, the concept of algorithm and calculation complexity will be adopted.

2. Educational outcomes (acquired knowledge):

Acquisition of basic knowledge in the field of object classification, computability and complexity of computability. Ability to predict characteristics and behavior of the system based on the system representation using mathematical concepts.

3. Course content/structure:

Discrete functions: Boolean functions, partitions, linear and polynomial solving functions, separation limits. Algorithm analysis: Turing machines, recursive functions. Introduction to the automaton theory and formal languages.

4. Teaching methods:

Lectures and auditory practice. Consultations.
During the audio practice contents from the lectures are applied and practiced. Studied algorithms are tested and their applicability is observed and analyzed.
During the semester students work on the term paper which is worth 25% of the points.
Parts of the course which represent a logical whole can be passed through colloquiums. If the student wins at least 40% of all possible points in each colloquium it is considered that the student passed the written part of the examination. Otherwise, the student has to take the written and oral part of the examination. In the written part of the examination the student may win up to 50% of the points, and in the oral part up to 20% of the points. In order for the student to pass the examination, he/she has to win at least one half of the possible points in the written part of the examination and to show satisfactory knowledge in the oral part of the examination.
The course grade is formed based on

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
			Practical part of the exam - tasks	Yes	70.00

Literature

Ord.	Author	Title	Publisher	Year
1,	R. Madarac, S. Crvenković	Uvod u teoriju automata i formalnih jezika	Univerzitet u Novom Sadu	1995
2,	D. Acketa	Odabrana poglavlja teorije prepoznavanja oblika sa primenama		1986
3,	P. Janičić	Matematička logika u računarstvu	Matematički fakultet, Beograd	2009

Table 5.2 Course specification

Course:		Industrial Robotics
Course id:	I600	
Number of ECTS:	7	
Teachers:		Borovac A. Branislav, Spasić T. Dragan
Course status:		Elective

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

Precondition courses: None

1. Educational goal:

The course objective is for students to master the fundamentals of industrial robotics.

2. Educational outcomes (acquired knowledge):

The course outcome is the knowledge in fundamentals of industrial robotics.

3. Course content/structure:

Basic concepts and definitions, homogenous transformations, kinematics of robots (direct and inverse problems), Denavit-Hartenberg notation, Jacobian, the synthesis of trajectory, dynamics of robots, robot control, robot programming, sensors in robotics and their application, application of robots in industrial problems.

4. Teaching methods:

The course is held through lectures and practice. During practice students are obliged to pass one colloquium and to do and pass 3 computer exercises. Colloquium includes: homogenous transformations, direct and inverse kinematic problem, direct and inverse dynamic problem, planning the trajectory, industrial robot control. Computer practice is in MATLAB. The first exercise includes homogenous transformations, the second DH notation, the third calculation of trajectory (internal coordinates). Each exercise required defense. In order for student to gain the right to take the final examination, he/she has to take the colloquium and successfully do and defend all exercises. Final examination is in the form of the test and is related to theoretical questions.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Laboratory exercise defence	Yes	30.00	Theoretical part of the exam	Yes	40.00
			Practical part of the exam - tasks	Yes	30.00

Literature

Ord.	Author	Title	Publisher	Year
1,	M. Vukobratović	Uvod u robotiku	Institut Mihajlo Pupin, Beograd	1986
2,	M. Vukobratović	Primenjena dinamika manipulacionih roboota	Tehnička knjiga, Beograd, II dopunjeno i izmenjeno izdanje	1990
3,	M. Vukobratović, D. Stokić	Primenjeno upravljanje manipulacionim robotima,	Tehnička knjiga, Beograd, II dopunjeno izdanje	1990
4,	M. Spong, S. Hutchinson, M. Vidyasagar,	Robot Modelling and Control	John Wiley & Sons, Inc., ISBN-10 0-471-64990-2,	2006
5,	L. Sciavicco, B. Sicilijano	Modelling and control of robot manipulators	Springer - Verlag, ISBN 1-85233-221-2	2000
6,	B. Borovac, G. Đorđević, M. Rašić, M. Raković	Industrijska robotika	Fakultet tehničkih nauka (u pripremi)	2007

Table 5.2 Course specification

Course:		Geometry of Discrete Space
Course id:	IAM004	
Number of ECTS:	4	
Teachers:		Lukić J. Tibor, Sladoje Matić I. Nataša
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:

Within the course students will get introduced to the basic characteristics of discrete spaces and their geometry. The knowledge of this type of space and its geometry is extremely important for the successful use of computer in the visualization and animation procedures. The objective is to give necessary theoretical basis about characteristics and basic assumptions of the working space –discrete space in the field of engineering graphics.

2. Educational outcomes (acquired knowledge):

Acquisition of basic knowledge in the field of discrete space geometry. Introduction to the algorithms used in working with discrete space.

3. Course content/structure:

Discrete space – basic concepts and characteristics. Discretization. Resolution. Integer network. Basic concepts of digital geometry and topology. Analysis of discrete geometric shapes and extraction of object properties. Shape descriptors. Numerical descriptors. Measurement of discrete sets, estimation. Distance. Morphological operations.

4. Teaching methods:

Lectures and auditory practice. A part of the practice is carried out in the computer laboratory. Consultations.
During the auditory practice the contents from the lectures are applied and practiced. During the computer practice the studied algorithms are studied and their applicability is observed and analyzed.
During the semester students work on a term paper which is worth 30% of the points.
Parts of the course which represent a logical whole may be taken through the colloquiums. If the student wins at least 40% of the possible points on each colloquium, it is considered that the students passed the written part of the examination. Otherwise, the student has to take the written and oral part of the examination. At the written part of the examination the student may win up to 50% of the points, and at the oral part up to 20% of the points. In order for the student to pass the examination, he/she has to win at least one half of the possible points at the written part of the examinati

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	30.00	Coloquium exam	No	25.00
			Coloquium exam	No	25.00
			Oral part of the exam	Yes	20.00
			Practical part of the exam - tasks	Yes	50.00

Literature

Ord.	Author	Title	Publisher	Year
1,	Nataša Matić Sladoje	Skripta		2011
2,	Reinhard Klette and Azriel Rosenfeld	Digital Geometry:Geometric Methods for Digital Picture Analysis	Morgan Kaufmann	2004

Table 5.2 Course specification

Course:		Image Based Modeling
Course id:	IA017	
Number of ECTS:	5	
Teacher:		Stojaković Z. Vesna
Course status:		Elective

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:

Education in the field of digital space model generation methods based on the photography and enabling students to use basic computer application IBM software.

2. Educational outcomes (acquired knowledge):

To apply acquired knowledge in the further educational process, as well as in the future professional work.

3. Course content/structure:

Introduction, definition and clarification of general, basic concepts of inage-based modeling base on the perspective images. Visual perception. Vision, human and artificial; Perceptual theory development and relationship between natural and artificial perceptual apparatus. Characteristics and development of perceptual projection. Photography properties. Difference between photography and perceptual image. Systems and procedures for image based space generation. Single-image-based-modeling. Photogrammetry, arial and terrestrial. Image-based texturing and theirs improvement. Image based 3D modeling of real world structures. Application of image based space generation – modeling of spatial structures. Complex projects and simultaneous use of different approaches.

4. Teaching methods:

Lectures and practice in the computer laboratory. Consultations.
The course grade is formed based on the examination prerequisites (graphic work and lecture and practice attendance) and on the success at the final examination. In order to be able to take the final examination, the student has to fulfill at least 35% of the examination prerequisites.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Computer exercise attendance	Yes	5.00	Oral part of the exam	Yes	50.00
Graphic paper	Yes	20.00			
Graphic paper	Yes	20.00			
Lecture attendance	Yes	5.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	H. Zisserman, R. Zisserman, A. Zisserman	Multiple view geometry in Computer Vision	Cambridge University Press, Cambridge	2000
2,	M. Kasser, Y. Egels, (ed.)	Digital Photogrammetry	Taylor&Francis	2000
3,	P.Zigmund	3D Shape- Its unique place in Visual Perception	MIT Press, London	2008

Table 5.2 Course specification

Course:	Advanced Engineering Animation
Course id: IA014	
Number of ECTS: 7	
Teachers:	Obradović M. Ratko, Zlokolica M. Vladimir
Course status:	Mandatory

Number of active teaching classes (weekly)

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

Precondition courses: None

1. Educational goal:

Enabling students to make computer animation, introduction to the basic concepts and methods for animation generation.

2. Educational outcomes (acquired knowledge):

To apply acquired knowledge in the further educational process, as well as in the future professional work.

3. Course content/structure:

Animation principles: compress and stretch, prediction, setting the scene, from pose to pose, overlapping action, acceleration and deceleration of action, movement along the give path, secondary action, timing, exaggeration, drawing solids, quaintness of the character. Character development, outside shape and silhouette, structure, personality, expression of emotions, action. Storyboarding, presentation, production. Animation techniques: Key frame interpolation and parameter curves. Linear interpolation, interpolation along the curve, interpolation of shape, interpolation of attributes and model characteristics. Forward kinematics. Inverse kinematics. Video camera animation. Position, orientation, motion Parallax, video camera movement along the curve, focal length, camera zoom, depth of field. Light animation, natural phenomena. Dynamic simulations, physical properties of objects, physical force. Face animation, presentation of different facial expressions, and presentation of feelings. Retouching the image, composition, and color gradation. Image resolution, output format.

4. Teaching methods:

Lectures, Practice in the computer laboratory. Consultations.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Computer exercise attendance	Yes	5.00	Written part of the exam - tasks and theory	Yes	30.00
Lecture attendance	Yes	5.00			
Project	Yes	30.00			
Project task	Yes	15.00			
Project task	Yes	15.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Ratko Obradović	Napredna inženjerska animacija - Skripta	Fakultet tehničkih nauka	2010
2,	Isaac Kerlow	Art of 3D Computer Animation and Effects	Wiley, USA	2009
3,	Alan Watt	3D Computer Graphics	Addison-Wesley, USA	2000
4,	Rick Parent	Computer Animation Algorithms& Techniques	Elsevier	2008
5,	Alan Watt, Fabio Policarpo	3D Games Real-Time rendering and Software Technology	Pearson, Addison Wesley	2001
6,	Adam Watkins	3D Animation From Models to Movies	Charles River Media	2001
7,	Les Pardew	Character Emotion in 2D and 3D animation	Thomson Course Technology	2008
8,	Edward Angel	Interactive Computer Graphics, A Top-Down Approach Using OpenGL	Addison-Wesley	2003
9,	Foley, van Dam, Feiner, Hughes	Computer Graphics principles and Practice	Addison-Wesley	1997
10,	Mark Gerhard, Jeffrey Harper, Jon McFarland	Mastering Autodesk 3ds Max Design 2010	Wiley Publishing	2009
11,	Boaz Livny	Mental Ray for Maya, 3ds Max and XSI a 3D artist's guide to rendering	Wiley Publishing	2008
12,	Pete Draper	Deconstructing the Elements with 3ds Max Create natural fire, earth, air and water without plug-in	Autodesk	2009

Table 5.2 Course specification

Course:		Application of Engineering Animation
Course id:	IA015	
Number of ECTS:	5	
Teachers:		Šiđanin S. Predrag, Tepavčević B. Bojan, Štulić B. Radovan
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:

Enabling students to learn possibilities of application of computer animation in different disciplines. Some of the disciplines are: education, art, science, production processes, construction, business, cosmic research, entertainment and many others.

2. Educational outcomes (acquired knowledge):

To apply acquired knowledge in the further educational process, as well as in the future professional work.

3. Course content/structure:

Introduction and defining the role and importance (potential) of computer animation in the modern society development. Development overview and characteristics of every integration of computer animation into modern professions - from science, through production and politics to entertainment, using many examples. Role, relationship and contribution of computer animation to implementation into different professions. Advancement of social reality by implementation of computer animation in the process of creation and production of new products, political decision making, visualization of data, scientific, medical, therapeutic research and practice, modern art and entertainment, and many other applied disciplines.

4. Teaching methods:

Lectures and Practice in the computer laboratory. Consultations.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Computer exercise attendance	Yes	5.00	Written part of the exam - tasks and theory	Yes	30.00
Lecture attendance	Yes	5.00			
Project	Yes	30.00			
Project task	Yes	15.00			
Project task	Yes	15.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Predrag Šiđanin	Primena inženjerske animacije - Skripta	Fakultet tehničkih nauka	2010
2,	Bonnie Blake	Adobe Premiere 6: virtualna škola (+CD)	Mikro knjiga, Beograd	2009

Table 5.2 Course specification

Course:		Professional Practice			
Course id:	IASP01				
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:

Widening practical knowledge in the field of engineering animation.

2. Educational outcomes (acquired knowledge):

Acquired knowledge can be used in solving specific engineering problems.

3. Course content/structure:

Solving specific engineering problems in practice.

4. Teaching methods:

Lectures are held in the companies or in scientific educational institutions through independent work.

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

Literature				
Ord.	Author	Title	Publisher	Year

Table 5.2 Course specification

Course:		Bachelor Thesis
Course id:	IAZR01	
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 specific problems within the chosen field. The student studies the problem, its structure and complexity, and based on the conducted analysis makes conclusions about possible ways of solving it. By studying the literature, the student is introduced to the methods of solving similar problems and to the practice in solving them. Acquiring knowledge about the way, structure and form of report-writing, after conducting analysis and other activities carried out within the given Bachelor Thesis topic. By writing the Bachelor Thesis, students gain experience in paper writing which requires problem description, methodology and procedures, and obtained results. Besides, the objective of writing and defending the Bachelor Thesis is to develop student ability to prepare and publically present results of their independent work in the adequate form, as well as to answer the objections and questions related to the given topic.

2. Educational outcomes (acquired knowledge):

Enabling students to independently apply previously acquired knowledge from different fields which they previously studied, in order to perceive the structure of the given problem and its systematical analysis with an objective to make conclusions about possible ways of solving it. Through independent use of literature, students deepen knowledge in the chosen field and study different methods and papers related to the similar problems. By independent studying and solving problems from the given topic field, students acquire knowledge about complexity of the problem in the field of their profession. By writing the Bachelor Thesis, students gain certain experience which can be applied in practice during solving problems in the field of their professionBy writing the Bachelor Thesis, students gain certain experience which can be applied in practice during solving problems in the field of their profession. By preparing results for the public defense,

3. Course content/structure:

It is formed individually in accordance with the needs and the field covered by the Bachelor Thesis topic. The student writes Bachelor Thesis in the written form in agreement with the mentor and in accordance with the standards of the Faculty of Technical Sciences. The student prepares and defends the Bachelor Thesis publically in agreement with the mentor and in accordance with the standards. The student studies professional literature, professional and Bachelor thesis of the students dealing with similar topics, and conducts analysis with an objective to find out the solution to the specific problem defined in the Bachelor Thesis.

4. Teaching methods:

Bachelor Thesis mentor sets the Bachelor Thesis problem and gives it to the student. The student is obliged to write the Bachelor Thesis within the given topic defined by the Bachelor Thesis problem. During writing the Bachelor Thesis, mentor can give additional instructions to the student, suggest certain literature and additionally guide him with an objective to create a quality Bachelor Thesis. Within the theoretical part of the Bachelor Thesis, the student has consultations with the mentor, and with other professors dealing with problems in the field of the Bachelor Thesis topic, if needed. Within the given topic, the student executes certain measurements, testing, counting, questionnaires and other research, if necessary. The student writes the Bachelor Thesis and gives the bounded examples to the board after gaining consent from the board for assessment and defense. Defense of the Bachelor Thesis is public and the student is obliged to orally answer the questions and objections

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:		Introduction to Virtual Reality Technology
Course id:	IA016	
Number of ECTS:	5	
Teachers:		Lužanin B. Ognjan, Plančak E. Miroslav
Course status:		Elective

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

Precondition courses: None

1. Educational goal:

Acquiring basic knowledge in the field of virtual reality technology and virtual production with an emphasis on the technologies of material design.

2. Educational outcomes (acquired knowledge):

After attending lectures and practice and after passing the course, students should master the basic virtual reality technologies. They should also be able to use VR devices as engineers (trackball, instrument glove, stereoscopic glasses) as well as to create simple VR simulations which support stereoscopy, collision detection and simulation of some physical properties of VR objects by using software development environment Wizard (Worldviz, Inc.)

3. Course content/structure:

Basic concepts and definitions. An overview of hardware components of VR systems – primary input devices, devices for motion monitoring, output display devices, VR projection systems. Computer platforms for VR – PC computers, graphic working stations, PC clusters, distributed VR systems. Principles of virtual reality technologies – monocular signs of depth perception, binocular signs of depth perception, principles of graphic display generation in real time, principles of haptic display generation in real time. General overview of virtual production – definitions, development history, application of VR technologies in product design, in production processes, in operations management, relations between key domains of virtual prototypes – advantages, comparative review of CAD and VR systems. VRAD systems – architecture and functions, user interface and navigation, operation flow. Application of virtual reality in modeling production processes and management operations on the example of the virtual rolling mill DEMAG. Virtual production in practice – application of AP technologies in assembling (Boeing), application of virtual design on the example of the Boeing aircraft 777, example of virtual toolroom, virtual prototype of the cabin interior of the passenger vehicle (Chrysler).

4. Teaching methods:

Lectures and Practice in the computer laboratory. Consultations.
Computer practice is based on mastering the software for computer animation integration with the sound and connection of different sequences (both animated and video) into one unique whole by using programs: Adobe Premiere and Adobe After Effects.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Computer exercise attendance	Yes	5.00	Written part of the exam - tasks and theory	Yes	30.00
Lecture attendance	Yes	5.00			
Project	Yes	30.00			
Project task	Yes	15.00			
Project task	Yes	15.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Burdea, G.C., Coiffet, P.	Virtual Reality Technology	John Wiley & Sons	2003
2,	Plančak, M., Lužanin, O.	Uvod u virtualnu proizvodnju	Fakultet tehničkih nauka, Novi Sad	2005

Table 5.2 Course specification

Course:		3D Digitalization Methods
Course id:	IA018	
Number of ECTS:	5	
Teachers:		Budak M. Igor, Hodolič J. Janko
Course status:		Elective

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

Precondition courses: None

1. Educational goal:

Mastering basic knowledge in the field of 3D digitalization and reverse engineering for the purposes of modeling complex geometry objects.

2. Educational outcomes (acquired knowledge):

Ability to apply 3D digitalization systems and techniques of reversible engineering in modeling complex geometry objects, especially in digitalization of human figure and other characters.

3. Course content/structure:

Reverse engineering – concepts, fields of application and methodology.
3D digitalization – concept, methods and procedures. Sensors for 3D digitalization (contact and contactless).
Pre-processing results of 3D digitalization (filtering, aligning, reduction and segmentation of the point clouds).
Reconstruction of surfaces – techniques of surface and volume model generation based on the pre-processing point clouds.

4. Teaching methods:

The course is held interactively in the form of lectures, auditory, laboratory and computer practice. During lectures theoretical part of the course is presented and followed by typical examples in order to better understand the matter taught. Within auditory practice typical problems are solved and the knowledge from the lectures is deepened, while during auditory practice acquired knowledge is practically applied in the modern laboratory. During computer practice skills from the observed field are mastered by application of computer equipment and specialized software systems. Besides lectures and practice, consultations are held on a regular basis.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance	Yes	5.00	Written part of the exam - tasks and theory	Yes	30.00
Lecture attendance	Yes	5.00	Oral part of the exam	Yes	20.00
Term paper	Yes	20.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Budak, I.; Hodolič, J.	Reverzibilno inženjerstvo i CAD-inspekcija – skripta	Fakultet tehničkih nauka, Novi Sad	2011
2,	Budak, I.	inženjerstvo (Poglavlje 2.3 u Plančak, M.: Brza izrada prototipova, modela i alata)	Fakultet tehničkih nauka, Novi Sad	2009
3,	Budak I., Hodolič J., Bešić I., Vukelić Đ., Osana P.H., Durakbasa N.M	Koordinatne merne mašine i CAD inspekcija	Fakultet tehničkih nauka, Novi Sad	2009
4,	Hjelle, Oyvind, Dæhlen, Morten	Triangulations and Applications	Springer-Verlag	2006
5,	Vinesh Raja,Kiran J. Fernandes	Reverse Engineering An Industrial Perspective	Springer-Verlag	2008

Standard 06. Programme Quality, Contemporaneity and International Compliance

The study programme is in accordance with the contemporary world scientific trends and with the state of the profession, and it can be compared to the similar programmes at higher educational institutions abroad. Computer graphics and computer animation are related disciplines. Computer graphics is a general term and it is older; Computer animation is a subset of computer graphics.
The computer animation studies exist at many faculties of technical profiles, informatics and/or computer studies.
Our study programme of Engineering Animation is designed based on the similar programmes of well known faculties and universities:

1.Computer Science & Engineering University of Washington
Link:
http://www.cs.washington.edu/research/graphics.intro.html
Annexes:
FAX_9_www.cs.washington.edu_research_graphics.intro.html.pdf
FAX_9B_grail.cs.washington.edu_mocap-lab.pdf
FAX_9C_www.cs.washington.edu_homes_shapiro_medical.html.pdf
FAX_9D_www.cs.washington.edu_ARL.pdf

2.Brown University
Link:
http://www.cs.brown.edu/courses/
Courses:
Introduction to Scientific Computing and Problem Solving
http://www.cs.brown.edu/courses/csci0040.html
Introduction to Computer Graphics
http://www.cs.brown.edu/courses/csci1230.html
Introduction to Computer Animation
http://www.cs.brown.edu/courses/csci1250.html
Intermediate 3D Computer Animation
http://www.cs.brown.edu/courses/csci1280.html
Innovating Game Development
http://www.cs.brown.edu/courses/csci1340.html
Virtual Reality Design for Science
http://www.cs.brown.edu/courses/csci1370.html
Introduction to Computer Vision
http://www.cs.brown.edu/courses/csci1430.html
Software System Design
http://www.cs.brown.edu/courses/csci1900.html
Introduction to Computational Geometry
http://www.cs.brown.edu/courses/csci1950-j.html
Interactive Computer Graphics
http://www.cs.brown.edu/courses/csci2240.html
Interdisciplinary Scientific Visualization
http://www.cs.brown.edu/courses/csci2370.html
Computational Geometry
http://www.cs.brown.edu/courses/csci2520.html
Programming Language Theory
http://www.cs.brown.edu/courses/csci2730.html
Special Topics in Machine Learning
http://www.cs.brown.edu/courses/csci2950-p.html
Human and Machine Learning
http://www.cs.brown.edu/courses/xlist_cogs1680.html
3D Photography and Geometry Processing
http://www.cs.brown.edu/courses/xlist_engn2911-i.html

Annexes:
Fax16_http___www.cs.brown.pdf

3.The Media School Bournemouth University
Link
http://ncca.bournemouth.ac.uk/
Annexes:
FAX_1_bournemouth.ac.uk.pdf
FAX_1B_ncca.bournemouth.ac.uk_courses_sub=43.pdf
FAX_1C_ncca.bournemouth.ac.uk_courses_sub=42.pdf

4.California State University, Chico
Link:
http://graphics.ecst.csuchico.edu/
Annexes:
FAX_14A_graphics.ecst.csuchico.edu.pdf
FAX_14B_graphics.ecst.csuchico.edu_Program.html.pdf

5.University of California - Berkeley
Link:
http://graphics.berkeley.edu/
Annexes:
FAX_2A_graphics.berkeley.edu.pdf
FAX_2B_graphics.cs.berkeley.edu_papers_Wang-EBW-2010-07_index.h.pdf
FAX_2C_graphics.cs.berkeley.edu_papers_Huang-SPL-2010-06_index..pdf
FAX_2d_graphics.cs.berkeley.edu_papers_Gu-RIA-2009-12_index.htm.pdf
FAX_2E_graphics.cs.berkeley.edu_papers_Overbeck-AWR-2009-12_ind.pdf
FAX_2F_graphics.cs.berkeley.edu_papers_Chentanez-ISN-2009-08_in.pdf
FAX_2G_graphics.cs.berkeley.edu_papers_Parker-RTD-2009-08_index.pdf
FAX_2H_graphics.cs.berkeley.edu_papers_Li-3CF-2009-08_index.htm.pdf
FAX_2I_graphics.cs.berkeley.edu_papers_Mahajan-MGP-2009-07_inde.pdf

6.Purdue University, College of Technology, Computer Graphics TECHNOLOGY
Link:
http://www.tech.purdue.edu/cg/
Annexes:
FAX_12A_www.tech.purdue.edu_cg.pdf
FAX_12B_www.tech.purdue.edu_cgt_academics_coursepages.cfm.pdf
FAX_12C_www2.tech.purdue.edu_cgt_Courses_cgt241.pdf
FAX_12D_www2.tech.purdue.edu_cgt_Courses_cgt340.pdf
FAX_12E_www2.tech.purdue.edu_cgt_Courses_cgt346.pdf
FAX_12F_www2.tech.purdue.edu_cgt_Courses_cgt442_Ctopics.htm.pdf

7.Computer Graphics @ Columbia University
Link:
http://graphics.cs.columbia.edu/
Annexes:
FAX_7_graphics.cs.columbia.edu.pdf
FAX_7B_www.cs.columbia.edu_cg.pdf

8.Stanford University. Stanford, California
Link:
http://www-graphics.stanford.edu
Annexes:
FAX_10_www-graphics.stanford.edu.pdf
9.University of Bristol, Computer Graphics Group, UK
Link:
http://www.cs.bris.ac.uk/Research/Graphics/
Annexes:
FAX_11A_www.cs.bris.ac.uk_Research_Graphics.pdf
FAX_11B_www.cs.bris.ac.uk_Research_Graphics_projects.htm.pdf

FAX_11C_www.cs.bris.ac.uk_Research_Graphics_resources.htm.pdf

We believe that such study programme will bring new quality in the higher education since it includes and unites fields that are seldom and random studied. We believe that the suggested Study programme in Engineering Animation is attractive, modern and needed in our society.

Standard 07. Student Enrollment

Each year a certain number of students are enrolled at the Faculty of Technical Sciences on the undergraduate academic studies of Engineering Animation, in accordance with social needs and infrastructure resources, either at the budget financing or self-financing, which is annually defined by special decision of Scientific Educational Council of the Faculty of Technical Sciences.
The selection of students and their admission is carried out based on the success in the prior education and achieved success at the entrance examination, defined by the Regulations of Student Enrollment to the Study Programmes.
Students from other academic programs as well as persons who have completed studies may be admitted to this study program. In this respect, the evaluation committee (comprising of the heads of all departments involved in realization of the study program) evaluates all passed activities of candidates for enrollment on the basis of all recognized number of points determined by the year of study in which the student can be enrolled. Hence, the passed activities can be recognized in full, can be recognized in part (Commission may require the proper supplement) or they may not be recognized at all.

Standard 08. Student Evaluation and Progress

The final grade in each course included in this programme is formed by continual monitoring of students` accomplishments throughout the academic year and by passing the final examination.
Students master the study programme by taking examinations and thus obtaining a certain number of ECTS credits, in accordance with the study programme. Each course within the programme is worth a certain number of ECTS credits which students obtain by successfully passing the course examination. The number of ECTS credits is based on the quantity and quality of work students are required to submit during a certain course and on the Faculty of Technical Sciences` unique methodology for all study programmes. Students` success in mastering a certain course is constantly monitored during classes and is expressed in points. Maximum number of points obtained in a course is 100.
Students obtain points from a course through their work during classes, completion of the prerequisites and taking the examination. The minimum number of points a student can obtain by fulfilling the course prerequisites during classes is 30, and the maximum 70.
Each course at the study programme has a clear and transparent mode of obtaining points. There are several ways students can obtain points: by participating in different activities during classes, by fulfilling the course prerequisites and by passing the course examination.
The final success of students at a course is presented with a grade 5 (failed) to 10 (excellent). The student`s grade is based on the overall number of points gained on fulfilling prerequisites and taking the examination, and in accordance with the quality of acquired knowledge and skills.
In order to take the final examination in the certain course, it is necessary that the student obtains at least 55% of the points in the examination prerequisites. Additional conditions for taking the examinations are defined individually for each course.
Advancement of students during education is defined by the Rules of Studying at the Graduate Academic Studies.

Standard 09. Teaching Staff

For the realization of the study programme at undergraduate studies in Engineering Animation, there is teaching staff with necessary professional and scientific qualifications.
The number of teachers corresponds to the needs of the study programme and depends on the number of courses and hours in the courses.

The total number of teachers is sufficient to cover the total number of hours on the study program, so that the teacher has about 180 hours of active lecturing (Lectures, consultations, exercises, practical work, ...) annually, or 6 times a week. Out of the total number of necessary teachers, all 100% of the teachers are full-time employed.
The number of associates meets the requirements of the study program. The total number of associates on the study program is sufficient to cover the total number of hours in the study programme, so that the associates make an average of 300 hours of Practice per year, that is, 10 hours per week.
Scientific and professional qualifications of the teaching staff match the educational and scientific field and level of their assignments. Each teacher has at least five references in the specific scientific or technical field, which is related to his teaching activities at the particular study program.
The group size for the lectures is up to 180 students, for exercises up to 60 students, and for labs up to 20 students.
None of the teachers has the workload of over 12 hours per week. All data on teachers and associates (CV, elections for the position, references) are available to the public.

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:	Borovac A. Branislav
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.10.1975
Scientific or art field:	Mechatronics, Robotics and Automation and Integral Systems

Academic carieer	Year	Institution	Field
Academic title election:	1998	Faculty of Technical Sciences - Novi Sad	Mechatronics, Robotics and Automation and Integral Systems
PhD thesis	1986	Faculty of Technical Sciences - Novi Sad	Robotics and Flexible Automation
Magister thesis	1982	Faculty of Technical Sciences - Novi Sad	Robotics and Flexible Automation
Bachelor's thesis	1975	Faculty of Technical Sciences - Novi Sad	Mechanical Engineering

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

	ID	Course name	Study programme name, study type
1.	EM436	Mechatronics	(M30) Energy and Process Engineering, Undergraduate Academic Studies
2.	H102	Fundamentals in Product Development	(H00) Mechatronics, Undergraduate Academic Studies
3.	H1404	Mechatronics	(H00) Mechatronics, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
4.	H308	Industrial Robotics	(H00) Mechatronics, Undergraduate Academic Studies
5.	I600	Industrial Robotics	(F10) Engineering Animation, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	BM116A	Basics of medical robotics	(BM0) Biomedical Engineering, Undergraduate Academic Studies
7.	EM436A	Mechatronics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
8.	II1035	Industrial robotics	(I10) Industrial Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
9.	H1503	Non Industrial Robotics and Automation in Buildings	(H00) Mechatronics, Master Academic Studies (I10) Industrial Engineering, Master Academic Studies
10.	HDOK1S	Selected topics in industrial robotics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
11.	HDOK2S	Selected topics in non-industrial robotics	(I12) Industrial Engineering, Specialised Academic Studies
12.	IMDR0S	Selected chapters in enterprise's design, organization and control	(I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies
13.	NIT05	Advanced Technology for Material Handling	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies
14.	AD0007	Interactive systems in architecture	(AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, Master Academic Studies
15.	H828	Advanced robotics	(H00) Mechatronics, Master Academic Studies
16.	H829	Advanced robotics	(I10) Industrial Engineering, Master Academic Studies (M40) Technical Mechanics and Technical Design, Master Academic Studies
17.	IIDS6	Selected chapters in automation	(I12) Industrial Engineering, Specialised Academic Studies
18.	GD018	Automation and Robotics in Construction	(G00) Civil Engineering, Doctoral Academic Studies (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.	HDOK-1	Selected Chapters in Industrial Robotics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
20.	HDOK-2	Selected Chapters in Non-Industrial Robotics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
21.	HDOKL1	Selected topics in non-industrial robotics	(H00) Mechatronics, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies
22.	HDOKL2	Selected topics in non-industrial robotics	(H00) Mechatronics, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies
23.	IMDR0	Science of Industrial Engineering and Management	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
24.	IMDR80	Selected chapters in automation	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	M. Vukobratović, V. Potkonjak, K. Babković, B. Borovac, Simulation model of general human and humanoid motion, Multibody System Dynamics, Volume 17, Number 1, (February, 2007), pp. 71-96 (ISSN 1384-5640 (Print) 1573-272X (Online))
2.	Vukobratović M., Borovac B., Potkonjak V., Towards a Unified Understanding of Basic Notions and Terms in Humanoid Robotics, Robotica (2007) Vol. 25, pp. 87-101
3.	Vukobratović M., Borovac B., Potkonjak V., ZMP: A Review of Some Basic Misunder-standings, Int. Jour. of Humanoid Robotics, Vol. 3, No. 2 (2006), pp. 153-176
4.	V. Potkonjak, M. Vukobratović, K. Babković, B. Borovac, General Model of Dynamics of Human and Humanoid Motion: Feasibility, Potentials and Verification, Int. Jour. of Humanoid Robotics, Vol. 3, No. 2 (2006), pp. 21-48
5.	Vukobratović M., Borovac B., Babković K., "Contribution to the Study of Anthropomorphism of Humanoid Robots", Int. Jour. of Humanoid Robotics, Vol. 2, No. 3 (2005), pp. 361-387
6.	Vukobratović M., Borovac B., Note on the Article "Zero-Moment Point- Thirty Five Years of its Life", Int. Jour. of Humanoid Robotics, Vol. 2, No.2, June 2005, pp. 225-227
7.	Vukobratović M., Borovac B., "Zero-Moment Point- Thirty Five Years of its Life", Int. Jour. of Humanoid Robotics, Vol. 1, No.1, March 2004, pp. 157-173
8.	M. Vukobratović, D. Andrić, B. Borovac, “How to Achieve Various Gait Patterns from Single Nominal “, International Journal of Advanced Robotic Systems, Vol. 1., No. 2, Page 99-108, 2004
9.	L. Juhas, A. Vujanić, N. Adamović, L. Nagy, B. Borovac "A Platform for Micro-Positioning Based on Piezo-Legs", The Journal of Mechatronics, Vol. 11, (2001), pp.869-897
10.	M. Vukobratović, D. Andrić, B. Borovac, “Humanoid Robot Motion in Unstructured Environment - Generation of Various Gait Patterns from a Single Nominal “, Cutting Edge Robotics, Edited by V. Kordic, A. Lazanica, M. Merdan, Published by pIV pro literatur Ver-lag Robert Mayer-Scholz, © 2005 Advanced Robotic Systems International, Page 577-598, 2005

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

Quotation total :	1998			
Total of SCI(SSCI) list papers :	35			
Current projects :	Domestic :	2	International :	1

Science, arts and professional qualifications

Name and last name:	Budak M. Igor
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	06.09.2001
Scientific or art field:	Metrology, Quality, Fixtures and Ecological-Engineering Aspects

Academic carieer	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Metrology, Quality, Fixtures and Ecological-Engineering Aspects
PhD thesis	2009	Faculty of Mechanical Engineering - Ljubljana	Metrology, Quality, Fixtures and Ecological-Engineering Aspects
Magister thesis	2004	Faculty of Technical Sciences - Novi Sad	Mechanical Engineering
Bachelor's thesis	1998	Faculty of Technical Sciences - Novi Sad	Mechanical Engineering

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

	ID	Course name	Study programme name, study type
1.	IA018	3D Digitalization Methods	(F10) Engineering Animation, Undergraduate Academic Studies
2.	P1401	Fixture Design and Measuring Machines	(P00) Production Engineering, Undergraduate Academic Studies
3.	P1508	Reverse Engineering and CAQ	(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
4.	P209	Measurements and Quality	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
5.	P306	Fixtures	(P00) Production Engineering, Undergraduate Academic Studies
6.	Z207	Mechanical Engineering in Environmental Engineering	(Z20) Environmental Engineering, Undergraduate Academic Studies
7.	Z207A	Mechanical Engineering in Environmental Engineering	(Z01) Safety at Work, Undergraduate Academic Studies
8.	Z301	Pollution Measurement and Control	(Z01) Safety at Work, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
9.	Z416	EMS Systems	(Z20) Environmental Engineering, Undergraduate Academic Studies
10.	ZRI441	Material handling systems for environmental and labor protection	(Z01) Safety at Work, Undergraduate Academic Studies
11.	Z416	EMS sistemi(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
12.	BM119D	Reverse engineering and rapid prototyping in biomedical engineering	(BM0) Biomedical Engineering, Undergraduate Academic Studies
13.	P322	Introduction to Precision Engineering	(P00) Production Engineering, Undergraduate Academic Studies
14.	ZC036	Measurement and control of pollution	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
15.	P1409	Material Control Systems and CAI	(PM0) Production Engineering, Master Academic Studies
16.	P1501	Ecological Technologies and Systems	(M40) Technical Mechanics and Technical Design, Master Academic Studies (PM0) Production Engineering, Master Academic Studies
17.	Z416A	Environment Protection System Management	(PM0) Production Engineering, Master Academic Studies
18.	I907	Automated Assembly Systems for High Accuracy	(H00) Mechatronics, Master Academic Studies (PM0) Production Engineering, Master Academic Studies
19.	P321	Reverse Engineering and Rapid Prototyping	(I10) Industrial Engineering, Master Academic Studies
20.	PIP16	Plastics and environmental protection	(PM0) Production 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
21.	PLIS1	Logistics and Simulation in Technologies of Plastics Processing	(PM0) Production Engineering, Master Academic Studies
22.	PP103	Measurement and tools in precision engineering	(PM0) Production Engineering, Master Academic Studies
23.	SM3	Software support for reverse engineering and CAQ	(PM0) Production Engineering, Master Academic Studies
24.	SZSP18	Contemporary scientific approaches in life cycle assessment of products (LCA)	(Z00) Environmental Engineering, Specialised Academic Studies
25.	DM411	Contemporary Approach to Integration of Reverse Engineering of Rapid Prototyping, Tools, Products and Virtual Manufacturing	(M00) Mechanical Engineering, Doctoral Academic Studies
26.	DP001	Design and Research Methods in Production Engineering	(M00) Mechanical Engineering, Doctoral Academic Studies
27.	DP006	State and development trends of metrology, quality and fixtures	(M00) Mechanical Engineering, Doctoral Academic Studies
28.	DP013	Ecological Engineering Aspects	(M00) Mechanical Engineering, Doctoral Academic Studies
29.	DP019	Selected topics in technical diagnosis	(M00) Mechanical Engineering, Doctoral Academic Studies
30.	ZDH1	Modern Methods of Eco-design	(Z00) Environmental Engineering, Doctoral Academic Studies
31.	ZSP18	Modern Scientific Approaches in Product Life Cycle Assessment (LCA)	(Z00) Environmental Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Budak I., Vukelić Đ., Bračun D., Hodolič J., Soković M.: Pre-Processing of Point-Data from Contact and Optical 3D Digitization Sensors, Sensors, 2012, Vol. 12, No 1, pp. 1100-1126, ISSN 1424-8220
2. Tadić B., Jeremić B., Todorović P., Vukelić Đ., Proso U., Mandić V., Budak I.: Efficient workpiece clamping by indenting cone-shaped elements, International Journal of Precision Engineering and Manufacturing, 2012, Vol. 13, No 10, pp. 1725-1735, ISSN 2234-7593
3. Kosec G., Nagode A., Budak I., Antić A., Kosec B.: Failure of the pinion from the drive of a cement mill, Engineering Failure Analysis, 2011, Vol. 18, pp. 450-454, ISSN 1350-6307
4. Budak I., Soković M., Barišić B.: Accuracy improvement of point data reduction with sampling-based methods by Fuzzy logic-based decision-making, MEASUREMENT, 2011, Vol. 44, No 6, pp. 1188-1200, ISSN 0263-2241
5. Budak I., Hodolič J., Soković M.: Development of a programme system for data-point pre-processing in Reverse Engineering, Journal of Materials Processing Technology, 2005, Vol. 162, pp. 730-735, ISSN 0924-0136
6. Jevremović D., Puškar T., Budak I., Vukelić Đ., Kojić V., Eggbeer D., Williams R.: An RE/RM approach to the design and manufacture of removable partial dentures with a biocompatibility analysis of the F75 Co-Cr SLM alloy, Materijali in tehnologije, 2012, Vol. 46, No 2, pp. 123-129, ISSN 1580-2949
7. Trifković B., Budak I., Todorović A., Hodolič J., Puškar T., Jevremović D., Vukelić Đ.: Application of Replica Technique and SEM in Accuracy Measurement of Ceramic Crowns, Measurement Science Review, 2012, Vol. 12, No 3, pp. 90-97, ISSN 1335-8871
8. Agarski B., Kljajin M., Budak I., Tadić B., Vukelić Đ., Bosak M., Hodolič J.: Application of multi-criteria assessment in evaluation of motor vehicles' environmental performances, Tehnički vjesnik/Technical Gazette, 2012, Vol. 19, No 2, pp. 221-226, ISSN 1330-3651
9. Vukelić Đ., Miljanić D., Ranđelović S., Budak I., Džunić D., Erić M., Pantić M.: Burnishing process based on optimal depth of workpiece penetration (Article in press, date of acceptance 28.08.2012, Manuscript Number: MIT-45-2012), Materijali in tehnologije, 2012, ISSN 1580-2949
10. Vukelić Đ., Tadić B., Miljanić D., Budak I., Todorović P., Ranđelović S., Jeremić B.: Novel workpiece clamping method for increased machining performance, Tehnički vjesnik-Technical Gazette, 2012, Vol. 19, No 4, pp. 837-846, ISSN 1330-3651.

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

Quotation total :	25			
Total of SCI(SSCI) list papers :	20			
Current projects :	Domestic :	4	International :	7

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:	Crnojević S. Vladimir
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	10.11.1995
Scientific or art field:	Telecommunications and Signal Processing

Academic carieer	Year	Institution	Field
Academic title election:	2010		Telecommunications and Signal Processing
PhD thesis	2004	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
Magister thesis	1999	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
Bachelor's thesis	1995	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing

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

	ID	Course name	Study programme name, study type
1.	EK412	Shape Recognition	(BM0) Biomedical Engineering, Undergraduate Academic Studies
2.	EK421	Digital Image Processing	(F10) Engineering Animation, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	URZP32	Systems for Detection, Alarm and Warning	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
4.	BM129A	Digital Image Processing	(BM0) Biomedical Engineering, Undergraduate Academic Studies
5.	E137	Basics of Telecommunications	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	EK463	Pattern Recognition	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	DE311S	Selected topics in Pattern Recognition	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
8.	DE412S	Digital image processing algorithms	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
9.	DE511S	Wireless sensor networks	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
10.	EK520	Medical Image Processing	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
11.	EK522	Computer Vision (Digital Image Processing 2)	(F20) Engineering Animation, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
12.	H1420	Fundamentals in Mechanical Vision	(H00) Mechatronics, Master Academic Studies
13.	IMDS54	Computer Vision in Industrial Engineering and Management	(I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies
14.	ZP508	Design and Maintenance of the Fire Detection Systems	(ZP1) Disaster Risk Management and Fire Safety, Master Academic Studies
15.	DE311	Selected Chapters in Pattern Recognition	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
16.	DE412	Digital Image Processing Algorithms	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
17.	DE511	Wireless Sensor Networks	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
18.	IMDR54	Computer Vision in Industrial Engineering and Management	(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.	Dejan Vukobratovic, Cedomir Stefanovic, Vladimir Crnojevic, Francesco Chiti, Romano Fantacci: "Rateless Packet Approach for Data Gathering in Wireless Sensor Networks", IEEE Journal on Selected Areas in Communications, Vol. 28, No. 7, pp. 1169-1179, September 2010.
2.	Petrovic, N.I.; Crnojevic, V.: Universal Impulse Noise Filter Based on Genetic Programming, IEEE Transactions on Image Processing, 2008, Vol. 17, No. 7, str. 1109- 1120, ISSN 1057-7149
3.	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
4.	Cedomir Stefanovic, Dejan Vukobratovic, Francesco Chiti, Lorenzo Niccolai, Vladimir Crnojevic, Romano Fantacci: "Urban Infrastructure-to-Vehicle Traffic Data Dissemination Using UEP Rateless Codes", IEEE Journal on Selected Areas in Communications, Vol. 29, No. 1, pp. 94-102, January 2011.
5.	Vladimir Crnojević, Nemanja Petrović, „Impulse Noise Filtering Using Robust Pixel-Wise S-estimate of Variance“, EURASIP Journal on Advances in Signal Processing, vol. 2010, Article ID 830702, 10 pages, 2010,
6.	V. Crnojević, V. Šenk, Ž. Trpovski, “Advanced Impulse Detection Based on Pixel-Wise MAD”, IEEE Signal Processing Letters, vol.11, No. 7, 2004, str. 589-593. Crnojević, V. Šenk, Ž. Trpovski, “Advanced Impulse Detection Based on Pixel-Wise MAD”, IEEE Signal Processing Letters, vol.11, No. 7, 2004, str. 589-593.
7.	B. Antić, V. Crnojević, „Joint Domain-Range Modeling of Dynamic Scenes with Adaptive Kernel Bandwidth“, pp.777-788, LNCS 4678, Springer-Verlag, Berlin Heidelberg 2007.
8.	N. Petrović, V. Crnojević, „Evolutionary Tree-Structured Filter for Impulse Noise Removal“, pp.103-113, LNCS 4179, Springer-Verlag, Berlin Heidelberg 2006.
9.	N. Petrović, V. Crnojević, „Impulse Noise Detection Based on Robust Statistics and Genetic Programming“, pp.643-649, LNCS 3708, Springer-Verlag, Berlin Heidelberg 2005.
10.	V. Crnojević,„Impulse Noise Filter With Adaptive Mad-Based Threshold“, International Conference on Image Processing, Genoa, Italy, 11-14. September, 2005.

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

Quotation total :	135			
Total of SCI(SSCI) list papers :	10			
Current projects :	Domestic :	3	International :	10

Science, arts and professional qualifications

Name and last name:	Cvetićanin J. Livija
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	12.11.1975
Scientific or art field:	Machine Mechanics

Academic carieer	Year	Institution	Field
Academic title election:	1992	Faculty of Technical Sciences - Novi Sad	Machine Mechanics
PhD thesis	1981	Faculty of Technical Sciences - Novi Sad	Mechanical Engineering
Magister thesis	1977	Faculty of Mathematics - Beograd	Mechanics
Bachelor's thesis	1975	Faculty of Technical Sciences - Novi Sad	Mechanical Engineering

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

	ID	Course name	Study programme name, study type
1.	IAKI01	Selected Chapters in Kinematics	(F10) Engineering Animation, Undergraduate Academic Studies
2.	M103	Mechanics 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
3.	M107	Mechanics 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
4.	M201	Mechanics 3	(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
5.	M2411	Theory of Oscillation	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
6.	DM405	Chaos in Dynamic Systems	(M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
7.	DM408	Nonlinerar Oscillations	(M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies
8.	FDS143	Selected Chapters in Technical Mechanics	(F00) Graphic Engineering and Design, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	1.L. Cveticanin, Dynamics of Machines with Variable Mass, Gordon and Breach Science Publishers, London, p.236, 1998.
2.	L. Cveticanin, Particle separation from a four-particle-system, European Journal of Mechanics - A/Solids, Volume 26, Issue 2, March-April 2007, Pages 270-285.

Representative refferences (minimum 5, not more than 10)	
3.	L. Cveticanin, Homotopy-perturbation method for pure non-linear differential equation, Chaos, Solitons and Fractals, Vol.30, 2006, 1221-1230
4.	L. Cveticanin, Free vibration of a Jeffcott rotor with pure cubic non-linear elastic property of the shaft, Mechanism and Machine Theory, Vol.40, 2005, 1330-1344.
5.	L. Cveticanin, Approximate solution of a strongly non-linear complex differential equation, Journal of Sound and Vibration, Vol.284, No.1-2, 2005, pp.503-512.
6.	L. Cveticanin, Vibrations of the non-linear oscillator with quadratic non-linearity, Physica A, Vol.341, 2004, pp.123-135.
7.	M. Zukovic, L. Cveticanin, R. Maretic, Dynamics of the cutting mechanism with flexible support and non-ideal forcing, Mechanism and Machine Theory, Vol.58, 2012, 1-12.
8.	L. Cveticanin, M. KalamiYazdi, H. Askari, Z. Saadatnia, Vibration of a two-mass system with non-integer order nonlinear connection, Mechanics Research Communications 43 (2012) 22-28.
9.	L.Cveticanin, Oscillator with fraction order restoring force, Journal of Sound and Vibration, Vol.320, 2009, 1064-1077.
10.	L. Cveticanin, Pure odd-order oscillators with constant excitation, Journal of Sound and Vibration, Vol.330, 2011, 976-986.

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	706			
Total of SCI(SSCI) list papers :	134			
Current projects :	Domestic :	2	International :	0

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:	Dejanović R. Igor
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	16.10.2000
Scientific or art field:	Applied Computer Science and Informatics

Academic carieer	Year	Institution	Field
Academic title election:	2012		Applied Computer Science and Informatics
PhD thesis	2012	Faculty of Technical Sciences - Novi Sad	Computer Science
Magister thesis	2008	Faculty of Technical Sciences - Novi Sad	Computer Science
Bachelor's thesis	2000	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics

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

	ID	Course name	Study programme name, study type
1.	E235	Fundamentals of Information Systems and Software Engineering	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	E2S40	Software Patterns and Components	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
3.	ISIT08	Object oriented programming fundamentals	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
4.	ISIT26	Upravljanje projektima	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
5.	ISIT27	Osnove softverskih arhitektura	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
6.	ISIT36	Software Development Tools	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
7.	ISIT3A	Metodologije i sistemi za upravljanje IT resursima	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
8.	ISIT48	Tehnologije i sistemi za podršku korisnicima	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
9.	SES202	Model Driven Software Development	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
10.	SES204	Advanced Programming Tecnics	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
11.	SES40	Software patterns and components	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
12.	E2510	Software Configuration Management	(E20) Computing and Control Engineering, Master Academic Studies (F20) Engineering Animation, 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.	E2519	Domain-Specific Languages	(E20) Computing and Control Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies (PM0) Production Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
14.	DRNI12	Selected Topics in Contemporary Software Development Methods	(E20) Computing and Control Engineering, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Gordana Milosavljević, Igor Dejanović, Branko Perišić: Brz razvoj adaptivnih poslovnih informacionih sistema, Yu Info, Kopaonik: 11-14 mart, 2007
2.	*****Dejanović I., Perišić B., Milosavljević G.: Implementacija XText DSL-a uz oslonac na arpeggio parser, YU Info 2011 (CD), 6 pages
3.	Dejanović I., Tumbas Živanov M., Milosavljević G., Perišić B.: Comparison of Textual and Visual Notations of DOMMLite Domain-Specific Language, 14. Advances in Databases and Information Systems, Novi Sad, 20-24 Septembar, 2010, pp. 20-24
4.	Milosavljević G., Dejanović I., Perišić B., Milosavljević B.: UML Profile for Specifying User Interfaces of Business Applications, 14. Advances in Databases and Information Systems, Novi Sad, 20-24 Septembar, 2010, pp. 77-94
5.	*****Milosavljević G., Dejanović I., Perišić B.: Ready for the industry: A practical approach to teaching mde. In 7th Educators Symposium@MODELS 2011: Software Modeling in Education, pages 31-40, Wellington, New Zealand, www.se.uni-oldenburg.de/documents/olnse-2-2011-EduSymp.pdf
6.	Dejanović I., Perišić B., Milosavljević G.: Arpeggio: pakrat parser interpreter, 16. YU INFO, Kopaonik, 1-8 Mart, 2010
7.	Dejanović I., Milosavljević G., Tumbas Živanov M., Perišić B.: Primena savremenih tehnika razvoja softvera u izradi studentskih projekata, 15. YU INFO, Kopaonik, 1-8 Mart, 2009
8.	Dejanović I., Milosavljević G., Perišić B.: Uporedni prikaz dva popularna MDSD/MDA alata otvorenog koda , 13. YU INFO, Kopaonik, 1-8 Mart, 2005
9.	Perišić B., Milosavljević G., Dejanović I., Milosavljević B.: UML Profile for Specifying User Interfaces of Business Applications, Computer Science and Information Systems (ComSIS), 2011, Vol. 8, No 2, pp. 405-426, ISSN 1820-0214
10.	Dejanović I., Milosavljević G., Tumbas Živanov M., Perišić B.: A Domain-Specific Language for Defining Static Structure of Database Applications, Computer Science and Information Systems (ComSIS), 2010, Vol. 7, No 3, pp. 409-440, ISSN 1820-0214

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:	Delić D. Vlado
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.09.1989
Scientific or art field:	Telecommunications and Signal Processing

Academic carieer	Year	Institution	Field
Academic title election:	2008	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
PhD thesis	1997	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
Magister thesis	1993	School of Electrical Engineering - Beograd	Telecommunications and Signal Processing
Bachelor's thesis	1989	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing

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

	ID	Course name	Study programme name, study type
1.	EK411	Digital Filters	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	Z413A	Acoustics and Noise Protection	(Z20) Environmental Engineering, Undergraduate Academic Studies
3.	BM118B	Acoustics and Audio Engineering in Medicine	(BM0) Biomedical Engineering, Undergraduate Academic Studies
4.	EK312	Acoustics and Audio Engineering	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EK312L	Acoustics and Audio Engineering in Multimedia	(F10) Engineering Animation, Undergraduate Academic Studies
6.	EK422	Digital Audio Signal Processing	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	EK451	Audio and Video Technologies	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
8.	EK452	Monitoring and Noise Protection	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	ETI27	Audio Engineering	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
10.	ETI29	Monitoring and Noise Protection	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
11.	ETI35	Digital Sound Processing	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
12.	DE111S	Algorithms for Digital Signal Processing	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
13.	DE212S	Selected Chapters in Acoustics and Audio Engineering	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
14.	DE512S	Human-Machine Speech Communication	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
15.	S0151	Application of Digital Signal Processing in Telecommunications	(S01) Postal Traffic and Telecommunications, Master Academic Studies
16.	SI037	Telecommunication Infrastructure of E-Business	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
17.	BMIM2A	Assistive Information and Communications Technologies	(BM0) Biomedical Engineering, Master Academic Studies
18.	EK422L	Digital Audio Signal Processing	(F20) Engineering Animation, Master Academic Studies
19.	EK550	Speech Technologies	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
20.	S1596	Acoustics and Audio Engineering in Traffic	(S01) Postal Traffic and Telecommunications, Master Academic Studies
21.	DE111	Algorithms for Digital Signal Processing	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
22.	DE212	Selected Chapters in Acoustics and Audio Engineering	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies

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

	ID	Course name	Study programme name, study type
23.	DE512	Human-Machine Speech Communication	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	“Discrimination Capability of Prosodic and Spectral Features for Emotional Speech Recognition”, V. Delić, M. Bojanić, M. Gnjatović, M. Sečujski, S.T. Jovičić; Electronics and Electrical Engineering, ISSN 1392-1215, Vol. 18, No. 9, November of 2012, pp. 51-54, DOI:10.5755/j01.eee.18.9.2806
2.	“Influence of the Number of Principal Components used to the Automatic Speaker Recognition Accuracy”, I. Jokić, S. Jokić, Z. Perić, M. Gnjatović, V. Delić; Electronics and Electrical Engineering, ISSN 1392-1215, No. 7(123), September of 2012, pp. 83-86, DOI:10.5755/j01.eee.123.7.2379
3.	“Focus Tree: Modeling Attentional Information in Task-Oriented Human-Machine Interaction”, M. Gnjatović, M. Janev, V. Delić; Applied Intelligence, Springer-Verlag New York, Inc., ISSN 0924-669X, Volume 37, Issue 3, Page 305-320, (2012) DOI: 10.1007/s10489-011-0329-5
4.	“A Novel Split-and-Merge Algorithm for Hierarchical Clustering of Gaussian Mixture Models”, B. Popović, M. Janev, D. Pekar, N. Jakovljević, M. Gnjatović, M. Sečujski, V. Delić; Applied Intelligence, Springer-Verlag N. York, Inc., ISSN 0924-669X, Volume 37, Number 3, Page 377-389, (2012) DOI: 10.1007/s10489-011-0333-9
5.	“Automatska konverzija tekstualnih informacija u govor”, M. Sečujski, V. Delić; - kumulativna naučnotehnička informacija - Monografska serija ISSN 1820-3418, Naučnotehničke informacije, ISBN 978-86-81123-25-6, Vol. XLVI, No. 4, Vojnotehnički institut, Beograd, 2011, 56 strana
6.	“Stereo Presentation and Binaural Localization in a Memory Game for the Visually Impaired”, V. Delić, N. Vujnović Sedlar; 2nd COST 2102 International Training School, Dublin, Ireland, 23 27.03.2009, Revised Selected Papers in Development of Multimodal Interfaces: Active Listening and Synchrony, Lecture Notes in Artificial Intelligence, LNAI; A. Esposito et al. (Eds.) , Springer, Heidelberg, ISBN 978-3-642-12396-2, LNCS 5967, ISSN: 0302-9743, April 2010, pp. 354-363, DOI: 10.1007/978-3-642-12397-9
7.	“Efficient ECG Modeling using Polynomial Functions”, S. Jokić, V. Delić, Z. Perić, S. Krčo, D. Sakač; Electronics and Electrical Engineering, ISSN 1392-1215, No. 4(110), April of 2011, pp. 121-124
8.	"Pattern Evaluation Tests of Software-Based Acoustic Measuring Systems", M. Stojiljković, V. Delić; 6th Forum Acusticum 2011, 27. June - 1 July, Aalborg, Denmark, European Acoustic Asociation, pp. 391 396, (Acta Acustica United with Acustica – Addendum, Vol. 97, No. 3, May/June 2011, ISBN: 978-84-694-1520-7, ISSN 1610-1928, European Acoustic Asociation
9.	"Zbirka zadataka iz digitalnih telekomunikacija", V. Milošević, V. Delić, FTN&Stylos, 1996, p.189 i FTN, 2005, p.282
10.	"Zbirka zadataka iz digitalne obrade signala", V. Delić, M. Sečujski, I. Radić, FTN, 2007, str. 176, (ISBN 978-86-7892-082-0)

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

Quotation total :	52			
Total of SCI(SSCI) list papers :	14			
Current projects :	Domestic :	4	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:	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:	Grahovac M. Nenad
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	29.12.2004
Scientific or art field:	Mechanics

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Mechanics
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Mechanics
Magister thesis	2005	Faculty of Technical Sciences - Novi Sad	Continuum Mechanics
Bachelor's thesis	2002	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.	A207	Mechanics	(A00) Architecture, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies
2.	E104	Mechanics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
3.	GG07	Mechanics 1	(G00) Civil Engineering, Undergraduate Academic Studies
4.	H112	Mechanics 1 – Fundamentals	(H00) Mechatronics, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies
5.	H201	Mechanics 2 - General	(H00) Mechatronics, Undergraduate Academic Studies
6.	H303	Mechatronics 3 – Further Chapters	(H00) Mechatronics, Undergraduate Academic Studies
7.	M204	Strength of Materials	(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.	M4401	Continuum mechanics	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
9.	BMI127	Biomechanics	(BM0) Biomedical Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
10.	II1004	Mechanics and Industrial Engineering	(I10) Industrial Engineering, Undergraduate Academic Studies
11.	M44041	Dynamics of non-smooth mechanical systems	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
12.	M44061	Optimization of mechanical systems	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
13.	BMIM4A	Transport phenomena and Living systems	(BM0) Biomedical Engineering, Master Academic Studies
14.	M45991	Biomechanics of cardiovascular system	(M40) Technical Mechanics and Technical Design, Master Academic Studies
15.	SZD051	Applications of optimal control theory in living environment protection	(Z00) Environmental Engineering, Specialised Academic Studies
16.	DM801	Biomedical mechanics	(M40) Technical Mechanics, Doctoral Academic Studies
17.	DTM02	Theory of impact	(H00) Mechatronics, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (S00) Traffic 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
18.	DTM03	Biomechanical models and analysis of impact	(M40) Technical Mechanics, Doctoral Academic Studies
19.	ZRD16A	Selected chapters in mechanics and elasticity theory	(Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Grahovac N., Žigić M., Spasić D.: On impact scripts with both fractional and dry friction type of dissipation, INT J BIFURCAT CHAOS, 2012, Vol. 22, No 4, pp. 1-10, ISSN 0218-1274
2.	Grahovac N., Žigić M.: Modelling of the hamstring muscle group by use of fractional derivatives, Computers and Mathematics with Apllications, 2010, Vol. 59, No 5, pp. 1695-1700, ISSN 0898-1221.
3.	Glavardanov V., Maretić R., Grahovac N.: Buckling of a twisted and compressed rod supported by Cardan joints , European Journal of Mechanics - A: Solids, 2009, Vol. 28, pp. 131-140, ISSN 0997-7538
4.	N. M. Grahovac, M. M. Zigić, and D. T. Spasić: On multiple impacts with fractional type of dissipation, 1st International Congress of Serbian Society of Mechanics, Beograd: Serbian Society of Mechanics, 10-13 April, 2007, str. 173- 180
5.	Grahovac N., Žigić M: Fractional derivative viscoelastic model of the hamstring muscle group, 3rd IFAC Workshop on Fractional Differentiation and its Applications, Ankara, Turkey: 05-07 november, 2008
6.	Žigić M., Grahovac N.: Dynamical behavior of a polymer gel during impact. Fractional derivative viscoelastic model, 3. International Congress of Serbian Society of Mechanics, Vlasinsko jezero, 5-8 Jul, 2011, pp. 871-878, ISBN 978-86-909973-3-6, UDK: 531/534(082)
7.	Grahovac N., Žigić M., Spasić D.: On impact scripts with both fractional and dry friction type of dissipation, 4. IFAC Workshop on Fractional Differentiation and Its Applications, Badajoz, 18-20 Oktobar, 2010
8.	Grahovac N.: Generalized Zener model in the analysis of free vibration of a viscoelastic oscillator, 2. International Congress of Serbian Society of Mechanics, Palić: Serbian Society of Mechanics, 1-5 Jun, 2009, pp. 145-153, ISBN 978-86-7892-173-5, UDK: 531/534(082)
9.	Žigić M., Grahovac N., Spasić D.: A simplified earthquake dynamics of a column like structure with fractional type of dissipation , 1. International Congress of Serbian Society of Mechanics, Kopaonik: Serbian Society of Mechanics, 10-13 April, 2007, pp. 165-172, ISBN 978-86-909973-0-5, UDK: 531/534(082)
10.	Kovinčić N., Žigić M., Grahovac N., Spasić D.: On Impact in Biomechanical Systems, International scientific conference on mechanics, 6. International Scientific Conference on Mechanics - Sixth Polyakhov`s Reading, Saint Petersburg, 31-3 Januar, 2012, pp. 251-251, ISBN 978-5-91563-101-3

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

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

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

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

Representative refferences (minimum 5, not more than 10)

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

Representative refferences (minimum 5, not more than 10)

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

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

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

Science, arts and professional qualifications

Name and last name:	Hodolič J. Janko
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	06.12.1974
Scientific or art field:	Metrology, Quality, Fixtures and Ecological-Engineering Aspects

Academic carieer	Year	Institution	Field
Academic title election:	1997	Faculty of Technical Sciences - Novi Sad	Metrology, Quality, Fixtures and Ecological-Engineering Aspects
PhD thesis	1989	Faculty of Technical Sciences - Novi Sad	Mechanical Engineering
Magister thesis	1979	Faculty of Technical Sciences - Novi Sad	Mechanical Engineering
Bachelor's thesis	1974	Faculty of Technical Sciences - Novi Sad	Mechanical Engineering

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

	ID	Course name	Study programme name, study type
1.	IA018	3D Digitalization Methods	(F10) Engineering Animation, Undergraduate Academic Studies
2.	P1401	Fixture Design and Measuring Machines	(P00) Production Engineering, Undergraduate Academic Studies
3.	P1508	Reverse Engineering and CAQ	(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
4.	P209	Measurements and Quality	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
5.	P2617	Planning Methods and Experiment Processing	(P00) Production Engineering, Undergraduate Academic Studies
6.	P306	Fixtures	(P00) Production Engineering, Undergraduate Academic Studies
7.	Z207	Mechanical Engineering in Environmental Engineering	(Z20) Environmental Engineering, Undergraduate Academic Studies
8.	Z207A	Mechanical Engineering in Environmental Engineering	(Z01) Safety at Work, Undergraduate Academic Studies
9.	Z301	Pollution Measurement and Control	(Z01) Safety at Work, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
10.	Z416	EMS Systems	(Z20) Environmental Engineering, Undergraduate Academic Studies
11.	ZR320	Experimental Analysys of Safety and Health on Workplace	(Z01) Safety at Work, Undergraduate Academic Studies
12.	ZRI441	Material handling systems for environmental and labor protection	(Z01) Safety at Work, Undergraduate Academic Studies
13.	Z207	Mašinstvo u inženjerstvu zaštite životne sredine(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
14.	Z416	EMS sistemi(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
15.	ZC036	Measurement and control of pollution	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
16.	P1409	Material Control Systems and CAI	(PM0) Production Engineering, Master Academic Studies
17.	P1501	Ecological Technologies and Systems	(M40) Technical Mechanics and Technical Design, Master Academic Studies (PM0) Production Engineering, Master Academic Studies
18.	P3501	Tool Designing for Plastic	(PM0) Production Engineering, Master Academic Studies
19.	Z416A	Environment Protection System Management	(PM0) Production Engineering, Master Academic Studies
20.	PIP16	Plastics and environmental protection	(PM0) Production Engineering, Master Academic Studies
21.	PLIS1	Logistics and Simulation in Technologies of Plastics Processing	(PM0) Production 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
22.	SDOM30	Probability, Statistics and Theory of Engineering Experiment	(Z00) Environmental Engineering, Specialised Academic Studies
23.	SZDH1	Modern Methods of Eco-design	(Z00) Environmental Engineering, Specialised Academic Studies
24.	SZSP18	Contemporary scientific approaches in life cycle assessment of products (LCA)	(Z00) Environmental Engineering, Specialised Academic Studies
25.	DM411	Contemporary Approach to Integration of Reverse Engineering of Rapid Prototyping, Tools, Products and Virtual Manufacturing	(M00) Mechanical 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.	DP001	Design and Research Methods in Production Engineering	(M00) Mechanical Engineering, Doctoral Academic Studies
28.	DP006	State and development trends of metrology, quality and fixtures	(M00) Mechanical Engineering, Doctoral Academic Studies
29.	DP013	Ecological Engineering Aspects	(M00) Mechanical Engineering, Doctoral Academic Studies
30.	ZDH1	Modern Methods of Eco-design	(Z00) Environmental Engineering, Doctoral Academic Studies
31.	ZSP18	Modern Scientific Approaches in Product Life Cycle Assessment (LCA)	(Z00) Environmental Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Budak I., Vukelić Đ., Bračun D., Hodolič J., Soković M.: Pre-Processing of Point-Data from Contact and Optical 3D Digitization Sensors, Sensors, 2012, Vol. 12, No 1, pp. 1100-1126, ISSN 1424-8220
2. Bešić I., Van Gestel N., Kruth J., Bleys P., Hodolič J.: Accuracy improvement of laser line scanning for feature measurements on CMM, Optics and Lasers in Engineering, 2011, Vol. 49, No 11, pp. 1274-1280, ISSN 0143-8166
3. Matin I., Hadžistević M., Hodolič J., Vukelić Đ., Lukić D.: A CAD/CAE Integrated Injection Mold Design System for Plastic Products, International Journal of Advanced Manufacturing Technology, 2012, Vol. 63, No. 5-8, pp. 595-607, ISSN 0268-3768
4. Jakovljević Ž., Petrović P., Hodolič J.: Contact states recognition in robotic part mating based on support vector machines, International Journal of Advanced Manufacturing Technology, 2012, Vol. 59, No 1-4, pp. 377-395, ISSN 0268-3768
5. Mrkajić V., Stamenković M., Maleš M., Vukelić Đ., Hodolič J.: Proposal for reducing problems of the air pollution and noise in the urban environment, Carpathian Journal of Earth and Environmental Sciences, 2010, Vol. 5, No 1, pp. 49-56, ISSN 1842-4090
6. Vukelić Đ., Zuperl U., Hodolič J.: Complex system for fixture selection, modification, and design, International Journal of Advanced Manufacturing Technology, 2009, Vol. 45, No 7-8, pp. 731-748, ISSN 0268-3768
7. Budak I., Hodolič J., Soković M.: Development of a programme system for data-point pre-processing in Reverse Engineering, Journal of Materials Processing Technology, 2005, Vol. 162, pp. 730-735, ISSN 0924-0136
8. Agarski B., Budak I., Kosec B., Hodolič J.: An Approach to Multi-criteria Environmental Evaluation with Multiple Weight Assignment, Environmental Modeling & Assessment, 2012, Vol. 17, No 3, pp. 255-266, ISSN 1420-2026.
9. Trifković B., Budak I., Todorović A., Hodolič J., Puškar T., Jevremović D., Vukelić Đ.: Application of Replica Technique and SEM in Accuracy Measurement of Ceramic Crowns, Measurement Science Review, 2012, Vol. 12, No 3, pp. 90-97, ISSN 1335-8871.
10. Agarski B., Kljajin M., Budak I., Tadić B., Vukelić Đ., Bosak M., Hodolič J.: Application of multi-criteria assessment in evaluation of motor vehicles' environmental performances, Tehnički vjesnik/Technical Gazette, 2012, Vol. 19, No 2, pp. 221-226, ISSN 1330-3651.

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

Quotation total :	42			
Total of SCI(SSCI) list papers :	22			
Current projects :	Domestic :	3	International :	6

Science, arts and professional qualifications

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

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

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

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

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

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

Representative refferences (minimum 5, not more than 10)

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

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

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

Science, arts and professional qualifications

Name and last name:	Janev B. Jelena
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.03.2012
Scientific or art field:	Art Applied to Architecture, Technics and Design

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Art Applied to Architecture, Technics and Design
Magister thesis	2004	Academy of Arts - Novi Sad	Sculpting
Bachelor's thesis	1998	Academy of Arts - Novi Sad	Sculpting

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

	ID	Course name	Study programme name, study type
1.	IA008	Drawing for Animation and Visual Effects	(F10) Engineering Animation, Undergraduate Academic Studies
2.	IA012	Storyboard	(F10) Engineering Animation, Undergraduate Academic Studies
3.	IGA002	Free Hand Drawing	(F10) Engineering Animation, Undergraduate Academic Studies
4.	IGA013	Character Animation	(F10) Engineering Animation, Undergraduate Academic Studies
5.	ASI17B	Sculpture and Art of Installation	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
6.	ASO25	Scene Technique 3	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
7.	ASO30	Scene Technique 4	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
8.	ASO41	Artistic and curatorial practices of scene design	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
9.	IA004	Classical Animation	(F10) Engineering Animation, Undergraduate Academic Studies
10.	IA021	Elements of Artistic Expression	(F20) Engineering Animation, Master Academic Studies
11.	IA005	History of Animation	(F20) Engineering Animation, Master Academic Studies
12.	SDO1	Scenic phenomena in contemporary arts	(A00) Architecture, Doctoral Academic Studies (AS0) Scenic Design, Doctoral Academic Studies
13.	SDO7	Artistic practice of scene design	(AS0) Scenic Design, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Magistarski rad na temu ‘Dodir’, na Akademiji umetnosti u Novom Sadu na likovnom odseku, smer vajarstvo, pod mentorstvom redovnog profesora Ljubomira Denkovića, 2004
2.	MoNGeometrija 2012, „Practice in Applying Fine Arts Subjects at Computer Graphic - Engineering Animation Studies”
3.	žirirana izložba 2007.Izložba skulptura u gvožđu ’Iron Tribe’, New Mexico Highlands University, Burris Hall, Las Vegas, New Mexico, U.S.A.
4.	žirirana izložba 2003.7. međunarodni bijenale umetnosti minijature, Kulturni centar – Moderna galerija, Gornji Milanovac
5.	žirirana izložba 2002.Ukrštanja – 10. bijenale vizuelnih umetnosti, galerija "Dvorište", Pančevo
6.	žirirana izložba 1999.Izložba kandidata predloženih za članove SULUV-a, Galerija SULUV-a, Novi Sad
7.	žirirana izložba 1999.Prolećna izložba u Umetničkom paviljonu "Cvijeta Zuzorić"
8.	žirirana izložba nagrada Oktobarskog salona grada Novog Sada za skulpturu 1997.26. Novosadski salon, Velika galerija Radničkog univerziteta, Novi Sad
9.	samostalna izložba 2003. Izložba crteža "Prvo skoči pa reci hop" u okviru projekta "Istraga" Muzeja savremene likovne umetnosti u Novom Sadu, fasade zgrada u Jevrejskoj 10 - 12, na uglu Miletićeve i Trifkovićevog trga, na uglu Pašićeve i Zlatnih greda, u Žarka Vasiljevića 6, Novi sad
10.	samostalna izložba 2002. Izložba skulptura "Dodir", Muzej savremene likovne umetnosti, Novi Sad

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:	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:	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:	Kovačević V. Jelena
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.12.1999
Scientific or art field:	Computer Engineering and Computer Communication

Academic carieer	Year	Institution	Field
Academic title election:	2011	Faculty of Technical Sciences - Novi Sad	Computer Engineering and Computer Communication
PhD thesis	2010		Computer Engineering and Computer Communication
PhD thesis	2010	Faculty of Technical Sciences - Novi Sad	Computer Engineering and Computer Communication
Magister thesis	2003	Faculty of Technical Sciences - Novi Sad	Computer Engineering and Computer Communication
Bachelor's thesis	1997	Faculty of Technical Sciences - Novi Sad	Computer Engineering and Computer Communication

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

	ID	Course name	Study programme name, study type
1.	RT44	DSP Architecture and Algorithms 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
2.	RT46	DSP Architecture and Algorithms 2	(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.	RT52	Dedicated Computer Structure Design 2	(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
4.	IGB340	Fundamentals of Engineering Animation	(F10) Engineering Animation, Undergraduate Academic Studies
5.	EK465	Architectures of digital signal processors	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	RT59	Real-Time System Design	(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
7.	RT511	Practicum in computer engineering and computer communications	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
8.	DRT06	Selected chapters on DSP systems	(E20) Computing and Control Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Kovacevic Jelena, Samardzija Dragan, Temerinac Miodrag, “Joint coding rate control for audio streaming in short range wireless networks”, IEEE TRANSACTIONS ON CONSUMER ELECTRONICS Vol: 55 Nr: 2 Str: 486 - 491 ISBN: ISSN: 0098-3063, 2009 (M22)
2.	Kovacevic Jelena, Samardzija Dragan, Temerinac Miodrag, “Optimized Joint Coding Algorithm for Audio Streaming in Short Range Wireless Networks”, International Conference on Consumer Electronics, Las Vegas, ISBN: 978-1-4244-4701-5, Izdavac: IEEE Consumer Electronic Society, 2009.
3.	Simic Dragan, Lukac Zeljko, Stefanovic Dejan, Kovacevic Jelena, Babic-Zdravkovic Sanja, “Real-time implementation of waveform interpolative voice codec with aspect to very low bit-rates” MIPRO - International convention on information and communication technology, electronics and microelectronics, Croatian Society For Microprocessor Systems And Information Systems, Microelectronics And Electronics, ISBN: 953-233-003-8, 2004.
4.	Jovanovic Marija, Kovacevic Jelena, “Partitioning DSP Applications on a Multi-core Architecture Based on Load Balancing”, IEEE Eastern European Conference on the Engineering of Computer Based Systems, Str: 154 – 155, ISBN: 978-1-4244-4677-3, Izdavac: IEEE, 2009.
5.	Jovanovic Marija, Sajic Dejan, Kovacevic Jelena, “Optimization of lossless audio decoders on a class of embedded systems with two cores”, International Conference on Digital Signal Processing, str. 1-6, ISBN: 978-1-4244-3297-4, Izdavac: IEEE, 2009.
6.	Popovic Miroslav,Basicevic Ilija,Velikic Ivan, Kovacevic Jelena, “ A Model-Based Statistical Usage Testing of Communication Protocols“,13th Annual IEEE International Symposium and Workshop on Engineering of Computer Based Systems (ECBS"06), Str: 377 – 386, ISBN: 0-7695-2546-6, Izdavac:ECBS
7.	Popovic Miroslav, Kovacevic Jelena, “A Statistical Approach to Model-Based Robustness Testing”, 14th Annual IEEE International Conference and Workshop on Engineering of Computer Based Systems, str: 485 – 494, ISBN: 0-7695-2772-8, Izdavac: IEEE, 2007.
8.	Djukic Miodrag, Četic Nenad, Kovačević Jelena, Popovic Miroslav, “A C Compiler Based Methodology For Implementing Audio DSP Applications on a Class of Embedded Systems”, ISCE, IEEE, ISBN: 978-1-4244-2422-1, 2008.
9.	Gajic Marko, Kovacevic Jelena, Petrovic Djordje, Temerinac Miodrag, Teslic Nikola, "A SMART POST PROCESSING ALGORITHM FOR REMOVING AUDIO DISTORTION" IBC 2011, Amsterdam Vol., Nr., Str.0-0, ISBN:, ISSN:, Izdavac: IBC 2011
10.	Gajic Marko, Kovacevic Jelena, Djukic Miodrag, Peckai-Kovac Robert,"Using a Simple Algorithm in SPP for Audio Quality Improvement Checkout" 19th Telecommunications forum TELFOR 2011, Serbia, Belgrade, November 22-24, 2011.Vol., Nr., Str.1115-1118, ISBN:978-1-4577-1498-6, ISSN:CFP1198P-CDR, Izdavac: Društvo za telekomunikacije – TELFOR

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

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

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

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

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

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

Representative refferences (minimum 5, not more than 10)

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

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

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

Science, arts and professional qualifications

Name and last name:	Lužanin B. Ognjan
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	09.11.1992
Scientific or art field:	Plastic Deformation Technology, Rapid Prototyping, Virtual

Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Plastic Deformation Technology, Rapid Prototyping, Virtual
PhD thesis	2009	Faculty of Technical Sciences - Novi Sad	Plastic Deformation Technology, Rapid Prototyping, Virtual
Magister thesis	2002	Faculty of Technical Sciences - Novi Sad	Machine Tools, Flexible Technological Systems and Automatization Processes Design
Bachelor's thesis	1992	Faculty of Technical Sciences - Novi Sad	Machine Tools, Flexible Technological Systems and Automatization Processes Design

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

	ID	Course name	Study programme name, study type
1.	IA016	Introduction to Virtual Reality Technology	(F10) Engineering Animation, Undergraduate Academic Studies
2.	P2411	Virtual Production in Technologies of Plastic Deforming	(P00) Production Engineering, Undergraduate Academic Studies
3.	BM119D	Reverse engineering and rapid prototyping in biomedical engineering	(BM0) Biomedical Engineering, Undergraduate Academic Studies
4.	F402	Electronic Publishing	(F00) Graphic Engineering and Design, Master Academic Studies
5.	F504I0	3D Printing	(F00) Graphic Engineering and Design, Master Academic Studies
6.	NIT01	Innovative Product Development	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies
7.	P321	Reverse Engineering and Rapid Prototyping	(I10) Industrial Engineering, Master Academic Studies
8.	SM1061	Iintegrated VR development environments for engineering applications	(PM0) Production Engineering, Master Academic Studies
9.	DM411	Contemporary Approach to Integration of Reverse Engineering of Rapid Prototyping, Tools, Products and Virtual Manufacturing	(M00) Mechanical Engineering, Doctoral Academic Studies
10.	DP001	Design and Research Methods in Production Engineering	(M00) Mechanical Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Tadić B., Todorović P., Lužanin O., Miljanić D., Jeremić B., Bogdanović B., Vukelić Đ.: Using specially designed high-stiffness burnishing tool to achieve high-quality surface finish, DOI: 10.1007/s00170-012-4508-2, International Journal of Advanced Manufacturing Technology, 2012, ISSN 0268-3768
2. Plančak M., Hartley P., Esssa K., Vilotić D., Movrin D., Lužanin O.: Deformation analysis during bi-metallic coining operations, Steel Research International, 2012, pp. 1247-1250, ISSN 978-3-514-00754-3
3. Ostojić G., Tadić B., Lužanin O., Stankovski S., Vukelić Đ., Budak I., Miladinović Lj.: An integral system for automated cutting tool selection, Scientific Research and Essays, 2011, Vol. 6, No 15, pp. 3240-3251, ISSN 1992-2248
4. Vukelić Đ., Tadić B., Lužanin O., Budak I., Križan P., Hodolič J.: A rule-based system for fixture design, Scientific Research and Essays, 2011, Vol. 6, No 27, pp. 5787-5802, ISSN 1992-2248
5. Lužanin O., Plančak M.: Enhancing Gesture Dictionary of a Commercial Data Glove Using Complex Static Gestures and an MLP Ensemble , Strojniski vestnik - Journal of Mechanical Engineering, 2009, Vol. 55, No 4, pp. 230-236, ISSN 0039-2480
6. Vukelić Đ., Tadić B., Jocanović M., Lužanin O., Simeunović N.: A System for Computer-Aided Selection of Cutting Tools, Acta Technica Corviniensis, 2011, Vol. 4, No 4, pp. 89-92, ISSN 2067-3809
7. Lužanin O., Plančak M.: Virtual reality technologies in virtual manufacturing-notes on current trends and applications , Journal for technology of Plasticity, 2008, Vol. 33, No 1-2, pp. 103-111.
8. Vilotić D., Plančak M., Kuzman K., Milutinović M., Movrin D., Skakun P., Lužanin O.: Application of net shape and near-net shape forming technologies in manufacture of roller bearing components and cardan shafts , Journal for technology of Plasticity, 2007, Vol. 32, No 1-2, pp. 87-104.
9. Milutinović M., Vilotić D., Plančak M., Trbojević I., Čupković Đ., Lužanin O.: Hot ring rolling in bearing production , Journal for Technology of Plasticity, 2005, Vol. 30, No 1-2, pp. 61-73, ISSN 0354-3870.
10. Novaković D., Lužanin O., Zeljković Ž., Hodolič J.: Enhancement of Tribological Characteristics of Gears by Application of Software Package for Gear Trains Design, Journals Tribology in industry, 1998, Vol. 20, No 2, pp. 47-51, ISSN 0351-1642.

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:	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:	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 :	

Science, arts and professional qualifications

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

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

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

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

Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES — Engineering Animation

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:	Milojević D. Zoran
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	27.10.1997
Scientific or art field:	Machine Elements,Construction Principles, Machine and Mechanizm

Academic carieer	Year	Institution	Field
Academic title election:	2008	University of Novi Sad - Novi Sad	Machine Elements,Construction Principles, Machine and Mechanizm Theory, Power and Motion Transfer and Eng.Communication
PhD thesis	2008	University of Novi Sad - Novi Sad	Machine Elements,Construction Principles, Machine and Mechanizm Theory, Power and Motion Transfer and Eng.Communication
Magister thesis	2002	Faculty of Technical Sciences - Novi Sad	Machine Tools, Flexible Technological Systems and Automatization Processes Design
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.	EOS03	Fundamentals in Mechanical Engineering(Machine elements and Materials)	(E01) Power Engineering - Renewble Sources of Electrical Energy, Undergraduate Professional Studies
2.	F202	Fundamentals in Mechanical Engineering	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
3.	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
4.	M2610	Graphic Communications and CAD	(H00) Mechatronics, Undergraduate Academic Studies
5.	S012	Descriptive Geometry and Engineering Drawing	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
6.	IA013	Interactive Engineering Graphics	(F10) Engineering Animation, Undergraduate Academic Studies
7.	ZC007	Engineering Graphic Communications	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
8.	M2511	Methodology of Design	(M22) Mechanization and Construction Engineering, Master Academic Studies
9.	AID04	Haptic devices usage in the virtual environment	(F20) Engineering Animation, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Gligorić, R., Milojević, Z.:" TEHNIČKO CRTANJE ", Edicija univerzitetski udžbenik, br 166, ISBN 86-499-0131-5., Univerzitet u Novom Sadu, 2004. god. (356 strana)
2. 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, Timisoara, Romania, pp: 48-54, 2007. ISSN: 1583-7904.
3. 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.
4. Obradović, R., Milojević, Z: PLANE SECTION OF CONE AND CYLINDER IN COMPUTER GEOMETRY, Facta Universitatis, Series Architecture and Civil Engineering, Vol. 3, No.2, Niš 2005., pp. 195-207
5. Milojević, Z., Zeljković, M., Navalušić, S., Milisavljević, B., Gatalo, R.:" ANALYSIS OF THE ISOPARAMETRIC HEXAHEDRAL ELEMENTS ACCURACY IN THE FEM STRUCTURAL ANALYSIS OF THE MAIN SPINDLE ASSEMBLY", Journal of Machine Engineering, Vol.2 No. 1-2 , Open and Global Manufacturing Design, Wroclaw, 2002. god., pp. 193-203
6. Marjanović N., Isailović B., Marjanović V., Milojević Z., Blagojević M., Bojić M.: A practical approach to the optimization of gear trains with spur gears, Mechanism and Machine Theory, 2012, Vol. 53, pp. 1-16, ISSN 0094-114X
7. 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

Representative refferences (minimum 5, not more than 10)

8.	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
9.	Milankov M., Savić D., Milojević Z.: Geometric considerations regarding the surface of the tibial insertion of the ACL graft, Knee Surg Sports Traumatol Arthrosc, 2012, Vol. 20, No 9, pp. 1887-1888, ISSN 0942-2056
10.	Obradović R., Petter O., Vidaković M., Popkonstantinović B., Popović B., Milojević Z.: Using Contemporary 3D Web Technologies in the Process of CAD Model Design (prihvaćen za objavljivanje u 2013), Technics Technologies Education Management, 2013, Vol. 8, No 1, 2/3, ISSN 1840-1503

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

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

Science, arts and professional qualifications

Name and last name:	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:	Nikolić 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
	01.10.1990
Scientific or art field:	Mathematics

Academic carieer	Year	Institution	Field
Academic title election:	2008	Faculty of Technical Sciences - Novi Sad	Mathematics
PhD thesis	1997	Faculty of Sciences - Novi Sad	Mathematics
Magister thesis	1992	Faculty of Mathematics - Beograd	Mathematics
Bachelor's thesis	1981	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.	H103	Mathematics 1	(H00) Mechatronics, Undergraduate Academic Studies
2.	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
3.	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
4.	Z106	Mathematics 2	(Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
5.	Z104	Matematika 1(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
6.	Z106	Matematika 2(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
7.	BMI91	Mathematics 1	(BM0) Biomedical Engineering, Undergraduate Academic Studies
8.	BMI92	Mathematics 2	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	ETI03	History of science and technology	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
10.	IA001	Algebra	(F10) Engineering Animation, Undergraduate Academic Studies
11.	II1052	Mathematics 2	(I10) Industrial Engineering, Undergraduate Academic Studies
12.	IM1002	Mathematics 1	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
13.	IM1006	Mathematics 2	(I20) Engineering Management, Undergraduate Academic Studies
14.	Z506	Viši kurs matematike 1(uneti naziv na engleskom)	(Z20) Environmental Engineering, Master Academic Studies

Representative refferences (minimum 5, not more than 10)	
1.	Aleksandar Nikolić, About two famous results of Jovan Karamata, Archives Internationales D"Histoire des Sciences, n. 141, Vol. 48, 1998, pp. 353-373
2.	Aleksandar Nikolić, Space and Time in the Apparatus of Infinitesimal Calculus, Review of Research, Faculty of Science, Mathematics Series 23, 1, 1993, pp. 199-218
3.	Nevenka Adžić, Aleksandar Nikolić, Uvod u teoriju redova, FTN Novi Sad, 2001, s. 124
4.	Irena Čomić, Aleksandar Nikolić, Diferencijalne jednačine, FTN Novi Sad, 1999, s. 122
5.	Aleksandar Nikolić, Jovan Karamata, život kroz matematiku, Zadužbina Andrejević, 1999, s.105
6.	Marić, V., Nikolić, A., Vojislav G. Avakumović (1910-1990) - A Passionate Man of Mathematics, Ganita Bharati, Vol. 30, No. 1, 45-60, 2008.
7.	Nikolić, A., Karamata"s Proofs of Pappus-Pascal and Desargues Theorems, ICAM 2007, G.B. Pant University, India.
8.	Nikolić, A., The Story of Majorisability as Karamata"s Condition of Convergence for Abel Summable Series, Historia Mathematica, 36, 4, 2009, 405-419.
9.	Nikolić, A., Mathematical education in the Province of Vojvodina within the Habsburg Monarchy, History of Mathematics, 41, 2010, 109-124.
10.	Aleksandar Nikolic, Mathematician Judita Cofman (1936–2001), Teaching Mathematics and Computer Science, Institute of Mathematics, and Faculty of Informatics, University of Debrecen, Hungary. 2012 Vol. X. Issue I, s. 91-115. ISSN 1589 - 7389

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

Science, arts and professional qualifications

Name and last name:	Obradović M. Ratko
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	02.09.1993
Scientific or art field:	Computer Graphics

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Computer Graphics
PhD thesis	2000	Faculty of Sciences - Novi Sad	Computer Graphics
Magister thesis	1997	Faculty of Sciences - Novi Sad	Computer Graphics
Bachelor's thesis	1993	Faculty of Technical Sciences - Novi Sad	Machine Elements,Construction Principles, Machine and Mechanizm Theory, Power and Motion Transfer and Eng.Communication

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

	ID	Course name	Study programme name, study type
1.	IA020	Advanced Display Technologies	(F10) Engineering Animation, Undergraduate Academic Studies
2.	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
3.	S012	Descriptive Geometry and Engineering Drawing	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
4.	IA006	Spatial Shape Design	(F10) Engineering Animation, Undergraduate Academic Studies
5.	IA009	3D Modeling	(F10) Engineering Animation, Undergraduate Academic Studies
6.	IA014	Advanced Engineering Animation	(F10) Engineering Animation, Undergraduate Academic Studies
7.	IGA013	Character Animation	(F10) Engineering Animation, Undergraduate Academic Studies
8.	IGA055	Special Visual Effects	(F10) Engineering Animation, Undergraduate Academic Studies
9.	IGB034	Video in Engineering Animation	(F10) Engineering Animation, Undergraduate Academic Studies
10.	IGB340	Fundamentals of Engineering Animation	(F10) Engineering Animation, Undergraduate Academic Studies
11.	ZC007	Engineering Graphic Communications	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
12.	IA018	Computer Geometry	(F20) Engineering Animation, Master Academic Studies
13.	AD0010	Advanced Animation and Video Post Techniques in Architecture	(AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, Master Academic Studies
14.	E2528	Computer game development	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
15.	IA005	History of Animation	(F20) Engineering Animation, Master Academic Studies
16.	AIDO8	Advanced Interdisciplinary Scientific Visualization	(F20) Engineering Animation, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	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

Representative refferences (minimum 5, not more than 10)

2.	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
3.	Bojić S., Golub M., Müller J., Obradović R., Martinov M.: Convective drying of naked seeded oil pumpkin seeds (Cucurbita pepo L.) in a medium scale batch dryer with different modes of air circulation., Zeitschrift für Arznei- und Gewürzpflanzen, 2012, Vol. 17, No 3, pp. 108-115, ISSN 1431-9292
4.	Obradović R., Popkonstantinović B., Beljin B.: Algorithm for Approximation Transitional Developable Surfaces Betweeen two Polygons, rad je u štampi, Technics Technologies Education Management / TTEM, 2012, Vol. 7, No 4, ISSN 1840-1503
5.	Obradović R., Petter O., Vidaković M., Popkonstantinović B., Popović B., Milojević Z.: Using Contemporary 3D Web Technologies in the Process of CAD Model Design (prihvaćen za objavljivanje u 2013), Technics Technologies Education Management, 2013, Vol. 8, No 1, 2/3, ISSN 1840-1503
6.	Obradović R., Vujanović M., Popkonstantinović B., Šiđanin P., Beljin B., Kekeljević I.: Fine Arts Subjects at Computer Graphics Studies at the Faculty of Technical Sciences in Novi Sad, rad je u štampi, Technics Technologies Education Management / TTEM, 2013, Vol. 8, No 1, ISSN 1840-1503
7.	Obradović R., Obradović M., Mišić S., Popkonstantinović B., Petrović M., Malešević B.: Investigation of Concave Cupolae Based Polyhedral Structures and Their Potential Application in Architecture, rad je u štampi, Technics Technologies Education Management / TTEM, 2013, Vol. 8, No 3, ISSN 1840-1503
8.	Milojević Z., Navalušić S., Obradović R., Milankov M., Dragoi M., Beju L.: System for 3D Approximate Model Generation of the Femur and Screw Built into Human Knee, Academic Journal of Manufacturing Engineering – AJME, 2010, Vol. 8, No 1, pp. 73-78, ISSN 1583-7904
9.	Obradović R.: The Plane Section of the Surface of Revolution, Facta universitatis - series: Architecture and Civil Engineering, 2005, Vol. 3, No 2, pp. 235-242, ISSN 0354–4605, UDK: 514.752.2:681.3.06(045)=20
10.	Obradović R., Milojević Z.: Plane section of cone and cylinder in computer geometry, Facta universitatis - series: Architecture and Civil Engineering, 2005, Vol. 2, No 3, pp. 195-207, ISSN 0354–4605

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

Quotation total :	50			
Total of SCI(SSCI) list papers :	7			
Current projects :	Domestic :	0	International :	1

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:	Perišić R. Branko
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.04.1983
Scientific or art field:	Applied Computer Science and Informatics

Academic carieer	Year	Institution	Field
Academic title election:	2011	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Education Specialist Thesis	2007	Software Engineering Institute at Carnagie Mellon University - Pittsburgh	Computer Science
Education Specialist Thesis	2004	Software Engineering Institute at Carnagie Mellon University - Pittsburgh	Computer Science
PhD thesis	1994	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Magister thesis	1986	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Bachelor's thesis	1977	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.	E235	Fundamentals of Information Systems and Software Engineering	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	E242	Software Specification and Modeling	(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.	E2S40	Software Patterns and Components	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
4.	RI45	Software Design	(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
5.	RI53	Business Information 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
6.	ISIT22	Osnove baza podataka	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
7.	ISIT26	Upravljanje projektima	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
8.	ISIT28	Informaciona bezbednost	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
9.	ISIT2E	Osnove projektovanja softvera	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
10.	ISIT33	Integracija i verifikacija softverskih aplikacija	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies

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

	ID	Course name	Study programme name, study type
11.	SE0011	Introduction to Software Engineering	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
12.	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
13.	SES103	Oral and written communication skills	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
14.	SES40	Software patterns and components	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
15.	E2508	Agile Software Development Methodology	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
16.	E2509	Protection and Recovery of Software Systems	(E20) Computing and Control Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
17.	GS014	The application of information technologies in energy efficiency	(G10) Energy Efficiency in Buildings, Specialised Academic Studies
18.	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
19.	DRNI05	Selected Topics in Software Standardization and Quality	(E20) Computing and Control Engineering, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies
20.	DRNI08	Selected Topics in Information Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies
21.	DAU014	Selected Topics in Computing	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
22.	DRNI12	Selected Topics in Contemporary Software Development Methods	(E20) Computing and Control Engineering, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. B. Perišić, G. Milosavljević "A Method and Tool for Rapid Prototyping of Large Scale Business Information Systems" COMSIS 2004
2. Perišić B., Milosavljević G., Dejanović I., Milosavljević B.: UML Profile for Specifying User Interfaces of Business Applications, Computer Science and Information Systems (ComSIS), 2011, Vol. 8, No 2, pp. 405-426, ISSN 1820-0214
3. Dejanović I., Milosavljević G., Tumbas Živanov M., Perišić B.: A Domain-Specific Language for Defining Static Structure of Database Applications, Computer Science and Information Systems (ComSIS), 2010, Vol. 7, No 3, pp. 409-440, ISSN 1820-0214

Representative refferences (minimum 5, not more than 10)

4.	Branko Perišić "DMIS-Distributed Medical Information System Concept&Structure", SystemScienceJournal N0.1 Vol.13 1987
5.	Dejanović I., Perišić B., Milosavljević G., Stričević N.: Towards a foundation for distributed version control of SLE artifacts. In 3rd International Workshop on Model-Based Software and Data Integration
6.	Milosavljević G., Dejanović I., Perišić B.: Ready for the industry: A practical approach to teaching mde. In 7th Educators Symposium@MODELS 2011: Software Modeling in Education, pages 31-40, Wellington, New Zealand, www.se.uni-oldenburg.de/documents/olnse-2-2011-EduSymp.pdf
7.	Milosavljević G., Dejanović I., Perišić B., Milosavljević B.: UML Profile for Specifying User Interfaces of Business Applications, 14. Advances in Databases and Information Systems, Novi Sad, 20-24 Septembar, 2010, pp. 77-94
8.	Dejanović I., Tumbas Živanov M., Milosavljević G., Perišić B.: Comparison of Textual and Visual Notations of DOMMLite Domain-Specific Language, 14. Advances in Databases and Information Systems, Novi Sad, 20-24 Septembar, 2010, pp. 20-24
9.	G.Milosavljević, B.Perišić "Really Rapid Prototyping of Large-Scale Business Information Systems", IEEE Workshop on Rapid Systems Prototyping San Diego 2003
10.	Perišić B., Zečević I.: Program package University organizational structure Korisnik: FTN Novi Sad, Univerzitet u Novom Sadu Rađeno za: TEMPUS , 2007

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

Quotation total :	12			
Total of SCI(SSCI) list papers :	4			
Current projects :	Domestic :	1	International :	6

Science, arts and professional qualifications

Name and last name:	Plančak E. Miroslav
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.01.1975
Scientific or art field:	Plastic Deformation Technology, Rapid Prototyping, Virtual

Academic carieer	Year	Institution	Field
Academic title election:	1995	Faculty of Technical Sciences - Novi Sad	Plastic Deformation Technology, Rapid Prototyping, Virtual
PhD thesis	1985	Faculty of Technical Sciences - Novi Sad	Plastic Deformation Technology, Rapid Prototyping, Virtual
Magister thesis	1979	Faculty of Technical Sciences - Novi Sad	Plastic Deformation Technology
Bachelor's thesis	1969	Faculty of Technical Sciences - Novi Sad	Plastic Deformation Technology, Rapid Prototyping, Virtual

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

	ID	Course name	Study programme name, study type
1.	IA016	Introduction to Virtual Reality Technology	(F10) Engineering Animation, Undergraduate Academic Studies
2.	P207	Metal forming	(P00) Production Engineering, Undergraduate Academic Studies
3.	P2401	Advanced Methods in Metal Forming	(P00) Production Engineering, Undergraduate Academic Studies
4.	P2413	Computer Aided Design of Tools and Dies for Metal Forming	(P00) Production Engineering, Undergraduate Academic Studies
5.	P303	Machines for Processing by Deforming	(P00) Production Engineering, Undergraduate Academic Studies
6.	P3403	Technology of Plastic Forming - Shaping of plastic material	(P00) Production Engineering, Undergraduate Academic Studies
7.	P3503	Machines and Devices for Plastic Processing	(P00) Production Engineering, Undergraduate Academic Studies
8.	BM119D	Reverse engineering and rapid prototyping in biomedical engineering	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	M2062	Mechanical engineering technologies 2	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
10.	P2407	Rapid Prototyping and Rapid Tooling	(PM0) Production Engineering, Master Academic Studies
11.	P3501	Tool Designing for Plastic	(PM0) Production Engineering, Master Academic Studies
12.	P3503A	Contemporary Process Systems for Plastic Treatment	(PM0) Production Engineering, Master Academic Studies
13.	NIT01	Innovative Product Development	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies
14.	BMIM4B	Technologies of shaping biomedical materials	(BM0) Biomedical Engineering, Master Academic Studies (PM0) Production Engineering, Master Academic Studies
15.	MIA11	Machines and dies for powder forming	(PM0) Production Engineering, Master Academic Studies
16.	P321	Reverse Engineering and Rapid Prototyping	(I10) Industrial Engineering, Master Academic Studies
17.	PMISP1	Modelling and Simulation of Metal Forming Processes	(PM0) Production Engineering, Master Academic Studies
18.	DM411	Contemporary Approach to Integration of Reverse Engineering of Rapid Prototyping, Tools, Products and Virtual Manufacturing	(M00) Mechanical Engineering, Doctoral Academic Studies
19.	DP001	Design and Research Methods in Production Engineering	(M00) Mechanical Engineering, Doctoral Academic Studies
20.	DP005	State and Tendencies in Development of Metrology, Quality and Equipment	(M00) Mechanical Engineering, Doctoral Academic Studies
21.	DP008	Contemporary Methods and TPD Systems	(M00) Mechanical Engineering, Doctoral Academic Studies
22.	DP012	Physical Modelling and TPD Simulation by Computers	(M00) Mechanical Engineering, Doctoral Academic Studies
23.	DP015	Nonconventional Procedures of Forming in TPD	(M00) Mechanical Engineering, Doctoral Academic Studies
24.	DP027	Advanced technologies of plastics packiging manufacturing	(M00) Mechanical Engineering, Doctoral Academic Studies
25.	DP029	Advanced Development of Polymeric Products	(M00) Mechanical Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Essa K., Kacmarcik I., Hartley P., Plancak M., Vilotic D.: Upsetting of bi-metallic ring billets, Journal of Materials Processing Technology, 2012, Vol 212, Nr 4, pp. 817-824, ISSN/ISBN: 0924-0136
2.	Vilotić D., Plančak M., Čupković Đ., Aleksandrov S., Aleksandrov N.: Free Surface Fracture in Three Upsetting Tests, Experimental Mechanics, 2006, Vol 46, pp. 115-120, ISSN: 0014-4851
3.	Plančak M., Bramley A. N., Osman F. H.: Some observation on contact stress measurement by pin load cell in bulk metal forming, Journal of Material and Processing Technology 60, 1996, pp. 339-342, ISSN/ISBN: 0924-0136
4.	Plančak M., Bramley A. N.. Osman F. H.: Non conventional cold extrusion, Journal of Material and Processing Technology 34, 1992, pp. 465-472, ISSN/ISBN: 0924-0136
5.	Hiroši I., Plančak M.: Coining process as a means of controlling surface microgeometry, Journal of Material Processing Technology, Vol 80-81, 1998, pp. 101-107, ISSN/ISBN: 0924-0136
6.	Plančak M., Vollertsen F., Woitschig J.: Analysis, finite element simulation and experimental investigation of friction in tube hydroforming, Journal of Material Processing Technology, Vol. 170, Issue I-2, 2005, pp.220-228, ISSN/ISBN: 0924-0136
7.	Vollertsen F., Plančak M.: On possibilities for the determination of the coefficient of friction in hydroforming of tubes, Journal of Material processing Technology, Vol 125-126, 2002, pp. 412-420, ISSN/ISBN: 0924-0136
8.	Plančak M.: Stress distribution within specimen in cold forward extrusion of steel, Journal of Materials Processing Technology, Vol 24, 1990, pp. 387-394, ISSN/ISBN: 0924-0136
9.	Vilotic D., Alexandrov S., Plancak M., Vilotic M., Ivanisevic I., Kacmarcik I.: Material Formability at Upsetting by Cylindrical and Flat Dies, Steel Research International Special Issue, 2012, pp. 1175-1178, ISSN: 1611-3683
10.	Plancak M., Hartley P., Essa K., Vilotic D., Movrin D, Luzanin O.: Deformation analysis during bi-metallic coining operations, Steel Research International Special Issue, 2012, pp. 1247-1250, ISSN/ISBN: 1611-3683

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

Quotation total :	92			
Total of SCI(SSCI) list papers :	23			
Current projects :	Domestic :	1	International :	2

Science, arts and professional qualifications

Name and last name:	Popkonstantinović D. Branislav
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Mechanical Engineering - Beograd
	01.01.2005
Scientific or art field:	Engineering Drawing and Descriptive geometry

Academic carieer	Year	Institution	Field
Academic title election:	2008	Faculty of Mechanical Engineering - Beograd	Engineering Drawing and Descriptive geometry
PhD thesis	2002	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	1989	Faculty of Mechanical Engineering - Beograd	Mechanizm and Machine Theory

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

	ID	Course name	Study programme name, study type
1.	IGA031	Aesthetics of Visual Communications	(F10) Engineering Animation, Undergraduate Academic Studies
2.	IA017	Interdisciplinary Scientific Visualization	(F20) Engineering Animation, Master Academic Studies
3.	AIDO8	Advanced Interdisciplinary Scientific Visualization	(F20) Engineering Animation, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Miladinović, Lj., Popkonstantinović, B., Stoimenov, M., Petrović, D., Ostojić, G., Stankovski, S.: LASER INSPECTION OF RUBBER PROFILES, Scientific Research and Essays, Vol. 6 (16), str. 3431-3436, 19 August, 2011, ISSN 1992-2248, IF 2010 = 0,445
2.	Popkonstantinović, B.,Miladinović, Lj., Stoimenov, M., Petrović, D., Ostojić, G., Stankovski, S.: DESIGN, MODELLING AND MOTION SIMULATION OF THE REMONTOIRE MECHANISM, Transactions of Famena, XXXV-2, str. 79 - 93, 2011, ISSN 1333-1124, IF 2010 = 0,143
3.	Popkonstantinović, B.,Miladinović, Lj., Stoimenov, M., Petrović, D., Petrović, N., Ostojić, G., Stankovski, S.: The Practical Method for Thermal Compensation of Long-Period Compound Pendulum, Indian Journal of Pure & Applied Phisics, Vol. 49(10), str.657 - 664, October 2011, ISSN 0019-5596, IF 2010 = 0,511
4.	Janković, J., Petrović, N., Miladinović, Lj., Popkonstantinović, B., Stoimenov, M., Petrović, D., Ostojić, G., Stankovski, S.: Computer Simulation of Fast Hydraulic Actuators, Iranian Journal of Science and Technology, ISSN 1028-6284, IF 2010 = 0,283
5.	Branislav Popkonstantinović, Aleksandar Čučaković, On a Possible Constructive Geometrical Derivation of Mercator's Conformal Cylindrical Map Projection Based on Some Historical Facts, Journal for Geometry and Graphics 10 (2006), No. 1, 063—071, Copyright Heldermann Verlag, 2006. ISSN: 1433-8157
6.	Branislav Popkonstantinović, Dragan Petrovic, A Geometrical Approach to the Numerical Stability Analysis of Some Projective Collinear Mapping Methods, Journal for Geometry and Graphics 11 (2007), No. 2 187-198, Copyright Heldermann Verlag, 2008, ISSN: 1433-8157
7.	Obradović R., Popkonstantinović B., Beljin B.: Algorithm for Approximation Transitional Developable Surfaces Betweeen two Polygons, Technics Technologies Education Management / TTEM, 2012, Vol. 7, No 4, ISSN 1840-1503, rad je u štampi
8.	Obradović R., Petter O., Vidaković M., Popkonstantinović B., Popović B., Milojević Z.: Using Contemporary 3D Web Technologies in the Process of CAD Model Design (prihvaćen za objavljivanje u 2013), Technics Technologies Education Management, 2013, Vol. 8, No 1, 2/3, ISSN 1840-1503
9.	Obradović R., Vujanović M., Popkonstantinović B., Šiđanin P., Beljin B., Kekeljević I.: Fine Arts Subjects at Computer Graphics Studies at the Faculty of Technical Sciences in Novi Sad, Technics Technologies Education Management / TTEM, 2013, Vol. 8, No 1, ISSN 1840-1503, rad je u štampi
10.	Obradović R., Obradović M., Mišić S., Popkonstantinović B., Petrović M., Malešević B.: Investigation of Concave Cupolae Based Polyhedral Structures and Their Potential Application in Architecture, rad je u štampi, Technics Technologies Education Management / TTEM, 2013, Vol. 8, No 3, ISSN 1840-1503

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

Quotation total :	0			
Total of SCI(SSCI) list papers :	8			
Current projects :	Domestic :	1	International :	0

Science, arts and professional qualifications

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

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

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

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

Representative refferences (minimum 5, not more than 10)

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

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

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

Science, arts and professional qualifications

Name and last name:	Rakarić Đ. Zvonko
Academic title:	Assistant 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:	Mechanics

Academic carieer	Year	Institution	Field
Academic title election:	2012		Mechanics
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Technical Mechanics
Magister thesis	2009	Faculty of Technical Sciences - Novi Sad	Mechanics
Bachelor's thesis	1999	Faculty of Technical Sciences - Novi Sad	Mechanics

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

	ID	Course name	Study programme name, study type
1.	E104	Mechanics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	F107	Technical Mechanics	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
3.	GG14	Mechanics 2	(G00) Civil Engineering, Undergraduate Academic Studies
4.	IAKI01	Selected Chapters in Kinematics	(F10) Engineering Animation, Undergraduate Academic Studies
5.	M103	Mechanics 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
6.	M107	Mechanics 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
7.	M201	Mechanics 3	(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.	M2411	Theory of Oscillation	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
9.	M4301	Computer Methods in Mechanics	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
10.	M45021	Computer Methods in Mechanics 2	(M40) Technical Mechanics and Technical Design, Master Academic Studies

Representative refferences (minimum 5, not more than 10)

Representative refferences (minimum 5, not more than 10)

1.	Rakarić Z., Kovačić I.: An elliptic averaging method for harmonically excited oscillators with a purely non-linear non-negative real-power restoring force, in press, Communication in Non-linear Science and Numerical Simulations, 2012, ISSN 1007-5704
2.	Rakarić Z., Kovačić I.: Approximations for motion of the oscillators with a non-negative real power restoring force, Journal of Sound and Vibration, 2011, No 330, pp. 321-336, ISSN 0022-460X
3.	Kovačić I., Rakarić Z.: Study of oscillators with a non-negative real-power restoring force and quadratic damping, Nonlinear Dynamics, 2011, Vol. 64, No 3, pp. 293-304, ISSN 0924-090X, UDK: DOI: 10.1007/s11071-010-9861-9
4.	Cvetićanin L., Kovačić I., Rakarić Z.: Asymptotic methods for vibrations of the pure fractional-order non-linear oscillators, Computers
5.	Kovačić I., Rakarić Z.: Oscillators with a fractional-order restoring force: higher-order approximations for motion via a modified Ritz method, Communication in Non-linear Science and Numerical Simulations, 2010, Vol. 15, pp. 2651-2658, ISSN 1007-5704
6.	Kovačić I., Rakarić Z., Cvetićanin L.: A non-simultaneous variational approach for a certain class of non-linear oscillators , Applied Mathematics and Computation, 2010, Vol. 217, pp. 3944-3954, ISSN 0096-3003
7.	Rakarić Z.: Oscillators with a quasi-constant restoring force: approximations for motion, Meccanica, 2010, ISSN 0025-6455
8.	Rakarić Z., Kovačić I.: Oscillators with a purely nonlinear non-negative real-power restoring force: approximations for free and forced response via elliptic functions and averaging, 7. European Nonlinear Dynamics Conference - ENOC, Rim, 24-29 Jul, 2011, ISBN ISBN 978-88-906234-2
9.	Rakarić Z., Kovačić I.: On the behaviour of forced oscillators with a non-negative real-power restoring force and van der Pol damping, 3. International Congress of Serbian Society of Mechanics, Vlasinsko jezero, 5-8 Jul, 2011, pp. 1284-1296, ISBN 978-86-909973-3-6
10.	Rakarić Z., Zuković M.: Iteration method solutions for oscillators with sign(x)Abs(x)^alfa elastic force, 2. International Congress of Serbian Society of Mechanics, Palić, 1-5 Jun, 2009, pp. 1-10, ISBN 978-86-7892-173-5, UDK: paper A14

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

Quotation total :	20			
Total of SCI(SSCI) list papers :	6			
Current projects :	Domestic :	1	International :	1

Science, arts and professional qualifications

Name and last name:	Sečujski S. Milan
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	15.06.2000
Scientific or art field:	Telecommunications and Signal Processing

Academic carieer	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
PhD thesis	2009	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
Magister thesis	2002	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
Bachelor's thesis	1999	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing

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

	ID	Course name	Study programme name, study type
1.	EK314	Digital Signal Processing	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EK411	Digital Filters	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	EK421	Digital Image Processing	(F10) Engineering Animation, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	Z413A	Acoustics and Noise Protection	(Z20) Environmental Engineering, Undergraduate Academic Studies
5.	BM118B	Acoustics and Audio Engineering in Medicine	(BM0) Biomedical Engineering, Undergraduate Academic Studies
6.	E137	Basics of Telecommunications	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	EK312	Acoustics and Audio Engineering	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
8.	EK312L	Acoustics and Audio Engineering in Multimedia	(F10) Engineering Animation, Undergraduate Academic Studies
9.	EK422	Digital Audio Signal Processing	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
10.	ETI27	Audio Engineering	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
11.	ETI35	Digital Sound Processing	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
12.	EK521	Information and Communication Theory	(S01) Postal Traffic and Telecommunications, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
13.	EK522	Computer Vision (Digital Image Processing 2)	(F20) Engineering Animation, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
14.	S0151	Application of Digital Signal Processing in Telecommunications	(S01) Postal Traffic and Telecommunications, Master Academic Studies
15.	SI036	Computer-Telephony Integration	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
16.	SI037	Telecommunication Infrastructure of E-Business	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
17.	BMIM2A	Assistive Information and Communications Technologies	(BM0) Biomedical Engineering, Master Academic Studies
18.	EK422L	Digital Audio Signal Processing	(F20) Engineering Animation, Master Academic Studies

Representative refferences (minimum 5, not more than 10)

Representative refferences (minimum 5, not more than 10)

1.	Milan Sečujski, Radovan Obradović, Darko Pekar, Ljubomir Jovanov, Vlado Delić: ”AlfaNum System for Speech Synthesis in Serbian Language”, Lecture Notes in Artificial Intelligence – Subseries of Lecture Notes in Computer Science, 2002, pp. 237- 244, ISSN 0302-9743.
2.	Bojović Ž., Perić Z., Delić V., Šećerov E., Sečujski M., Šenk V.: “Comparative Analysis of the Performance of Different Codecs in a live VoIP network using SIP protocol”, Electronics and electrical engineering, 2012, Vol. 117, No 1, pp. 37-42, ISSN 1392-1215
3.	Popović B., Janev M., Pekar D., Jakovljević N., Gnjatović M., Sečujski M., Delić V.: A Novel Split-and-Merge Algorithm for Hierarchical Clustering of Gaussian Mixture Models, DOI:10.1007/s10489-011-0333-9, Applied Intelligence, 2012, Vol. 37, No 3 (2012), pp. 377-389, ISSN 0924-669X
4.	Delić V., Bojanić M., Gnjatović M., Sečujski M., Jovičić S.: Discrimination capability of prosodic and spectral features for emotional speech recognition DOI: http://dx.doi.org/10.5755/j01.eee.18.9.2806, Electronics and electrical engineering, 2012, Vol. 18, No 9, pp. 51-54, ISSN 1392-1215
5.	Delić V., Sečujski M., Jakovljević N., Janev M., Obradović R., Pekar D.: “Speech Technologies for Serbian and Kindred South Slavic Languages”, 9th Chapter in the book Advances in Speech Recognition, Noam R. Shabtai (Ed.) Available from: http://www.intechopen.com/articles/show/title/speech-technologies-for-serbian-and-kindred-south-slavic-languages, SCIYO, 2010, str. 141-164, ISBN 978-953-307-097-1
6.	Pekar D., Mišković D., Knežević D., Vujnović Sedlar N., Sečujski M., Delić V.: "Applications of Speech Technologies in Western Balkan Countries", 7th Chapter in the book Advances in Speech Recognition, Noam R. Shabtai (Ed.) Available from http://www.intechopen.com/articles/show/title/applications-of-speech-technologies-in-western-balkan-countries, SCIYO, 2010, str. 105-122, ISBN 978-953-307-097-1
7.	Sečujski M.: “Development of language resources for the Serbian language required for part-of-speech tagging”, Chapter in book: „Speech and Language: Interdisciplinary Research III“, Eds.: S. T. Jovičić, M. Sovilj, Beograd, LAAC and IEPPS, 2009, str. 125-139, UDK: ISBN 978-86-81879-27-6
8.	Milan Sečujski: A Software Tool for Automatic Part-of Speech Tagging in Serbian Language, Primenjena lingvistika, 2008, No. 9, pp. 97- 103, UDK: 004.934 : 004.4, ISSN 1451-7124.
9.	Vlado Delić, Darko Pekar, Radovan Obradović, Milan Sečujski: ”Speech Signal Processing in ASR&TTS Algorithms”, Facta Universitatis (Niš), Series: Electronics and Energetics, 2003, Vol. 16, No. 3, pp. 355- 364, ISSN 0353-3670.
10.	Jakovljević N., Sečujski M., Delić V.: Vocal Tract Length normalization strategy based on maximum likelihood criterion, 8. EUROCON, Sankt Peterburg: IEEE, 18-23 Maj, 2009, pp. 417-420, ISBN 978-1-4244-3861-7

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

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

Science, arts and professional qualifications

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

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

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

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

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

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

Representative refferences (minimum 5, not more than 10)

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

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

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

Science, arts and professional qualifications

Name and last name:	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:	Spasić T. Dragan
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.09.1985
Scientific or art field:	Mechanics

Academic carieer	Year	Institution	Field
Academic title election:	2005	Faculty of Technical Sciences - Novi Sad	Mechanics
PhD thesis	1993	Faculty of Technical Sciences - Novi Sad	Mechanics
Magister thesis	1991	Faculty of Mathematics - Beograd	Mechanics
Bachelor's thesis	1884	Faculty of Technical 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.	A207	Mechanics	(A00) Architecture, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies
2.	H112	Mechanics 1 – Fundamentals	(H00) Mechatronics, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies
3.	H201	Mechanics 2 - General	(H00) Mechatronics, Undergraduate Academic Studies
4.	H303	Mechatronics 3 – Further Chapters	(H00) Mechatronics, Undergraduate Academic Studies
5.	I600	Industrial Robotics	(F10) Engineering Animation, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	M4302	Biomechanics and mechanics of sport	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
7.	ASO	Introduction to engineering	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
8.	BMI127	Biomechanics	(BM0) Biomedical Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	BMI128	Continuum Biomechanics	(BM0) Biomedical Engineering, Undergraduate Academic Studies
10.	BMI96	Mechanics	(BM0) Biomedical Engineering, Undergraduate Academic Studies
11.	II1004	Mechanics and Industrial Engineering	(I10) Industrial Engineering, Undergraduate Academic Studies
12.	M44041	Dynamics of non-smooth mechanical systems	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
13.	M44061	Optimization of mechanical systems	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
14.	BMIM4A	Transport phenomena and Living systems	(BM0) Biomedical Engineering, Master Academic Studies
15.	M45991	Biomechanics of cardiovascular system	(M40) Technical Mechanics and Technical Design, Master Academic Studies
16.	SZD051	Applications of optimal control theory in living environment protection	(Z00) Environmental Engineering, Specialised Academic Studies
17.	DM406	Nonsmooth Mechanics and Optimization	(H00) Mechatronics, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
18.	DZ003	Selected Chapters in Mechanics	(M00) Mechanical 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.	ZD051	Applications of optimal control theory in living environment protection	(Z00) Environmental Engineering, Doctoral Academic Studies
20.	DM801	Biomedical mechanics	(M40) Technical Mechanics, Doctoral Academic Studies
21.	DTM02	Theory of impact	(H00) Mechatronics, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies
22.	DTM03	Biomechanical models and analysis of impact	(M40) Technical Mechanics, Doctoral Academic Studies
23.	ZRD16A	Selected chapters in mechanics and elasticity theory	(Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Spasić D., Glavardanov V.: Does generalized elastica lead to bimodal optimal solutions?, International Journal of Solids and Structures, 2009, Vol. 46, No 14-15, pp. 2939-2949, ISSN 0020-7683
2. Grahovac N., Žigić M., Spasić D.: On impact scripts with both fractional and dry friction type of dissipation, INT J BIFURCAT CHAOS, 2012, No Prihvaćen za štampu, ISSN 0218-1274
3. D. T. Spasic and T. M. Atanackovic (2004), "Bimodal optimization of a compressed rotating rod", Acta Mechanica, 173, N 1-4, 77-87
4. Spasić D.: Optimizing the elctrodynamical stabilization method for a man-made Earth satellite, AUTOMAT REM CONTR , 2011, Vol. 72, No 9, pp. 112-121, ISSN 0005-1179
5. Petrović Lj., Spasić D., Atanacković T.: On a mathematical model of a human root dentin , Dental Materials, 2005, Vol. 21, pp. 125-128, ISSN 0109-5641
6. Mitić G., Spasić D.: Clinical Characteristic and type of thrombophilia in women with pregnancy-related venous thromboembolic disease, GYNECOL OBSTET INVES, 2011, Vol. 72, No 2, pp. 103-108, ISSN 0378-7346
7. T. M. Atanackovic and D. T. Spasic, (2004): "On viscoelastic compliant contact-impact models", Transactions of ASME Journal of Applied Mechanics, 71, 134-138
8. Radovic R., Spasic D.T., Karadzic B., Novakovic B., Atanackovic J., Jelicic Z.. and Tepavcevic B., (2002), ""New challenges and opportunities for the city of Novi Sad"", Coordinated by T. Atanackovic, The Danube Commision of EU and The University of Novi Sad, (monograph 157 pages in English and Serbian)
9. Spasić D.: Boudary elements, theory and applications (English to serbian traslation done by D.T. Spasić), Beograd, Gradjevinska knjiga, 2011
10. BD Vujanović, DT Spasić: Metodi optimizacije: primenjeni varijacioni račun, analitička mehanika, optimalno upravljanje, UNS, 1997.

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

Quotation total :	16			
Total of SCI(SSCI) list papers :	8			
Current projects :	Domestic :	1	International :	0

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

Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES — Engineering Animation

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

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

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

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

Representative refferences (minimum 5, not more than 10)

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

Representative refferences (minimum 5, not more than 10)

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

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

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

Science, arts and professional qualifications

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

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

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

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

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

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

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

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

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

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

Representative refferences (minimum 5, not more than 10)

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

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

Science, arts and professional qualifications

Name and last name:	Šiđanin S. Predrag
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.10.2006
Scientific or art field:	Geometric Space Theory and Interpretation in Architecture and Urbanism

Academic carieer	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Geometric Space Theory and Interpretation in Architecture and Urbanism
PhD thesis	2001	Faculty of Architecture, Delft University of Technology - Delft	Architecture
Magister thesis	1995	Faculty of Architecture, Delft University of Technology - Delft	Architecture
Bachelor's thesis	1981	Faculty of Architecture - Beograd	Architecture

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

	ID	Course name	Study programme name, study type
1.	A254	Presentation Techniques of Architectural and Urban Space	(A00) Architecture, Undergraduate Academic Studies
2.	A332	Modeling	(A00) Architecture, Undergraduate Academic Studies
3.	IA015	Application of Engineering Animation	(F10) Engineering Animation, Undergraduate Academic Studies
4.	IGB052	Engineering Animation and Other Media	(F10) Engineering Animation, Undergraduate Academic Studies
5.	A342	Architectural representations 1 - basic level	(A00) Architecture, Undergraduate Academic Studies
6.	A342S	Architectural representations 1 - Advanced level	(A00) Architecture, Undergraduate Academic Studies
7.	A365	Architectural representations 2	(A00) Architecture, Undergraduate Academic Studies
8.	A701	Introduction to Performance Studies	(A00) Architecture, Undergraduate Academic Studies
9.	ASI23B	Multimedia	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
10.	ASI272	Performance	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
11.	ASI273	New Media	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
12.	ASI283	Graphic design	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
13.	ASI332	Arts Management and Cultural Policy	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
14.	ASI333	New technologies in art and culture	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
15.	ASO1	Introduction to Scene Architecture, Technique and Design	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
16.	ASO16	Scale Modeling in Stage Design	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
17.	ASO22	Presentation Techniques in Stage Design	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
18.	ASO30	Scene Technique 4	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
19.	ASO31	Scenography 4	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
20.	ASO40	Phenomenology of Scene Design	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
21.	A291	Representation of a Wider Physical Environment	(AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, Master Academic Studies
22.	IA254	Presentation Techniques of Architectural and Urban Space	(F20) Engineering Animation, Master Academic Studies
23.	RPR009	GIS and Regional Development	(RPR) Regional Development Planning and Management, Master Academic Studies
24.	A116CS	Scenic function of architecture and a city - selected chapters	(A00) Architecture, Specialised Academic Studies

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

	ID	Course name	Study programme name, study type
25.	AD0001	Digital Design in Architecture and Urban Planning	(AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, Master Academic Studies
26.	AD0002	Architectural Visualization	(AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, Master Academic Studies
27.	AD0004	Generative design in architecture and urbanism	(AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, Master Academic Studies
28.	ASM1	Scene architecture	(AS0) Scenic Architecture and Design, Master Academic Studies
29.	ASM4	Project Management in scene architecture and design	(AS0) Scenic Architecture and Design, Master Academic Studies
30.	AUP071	Representation of a Wider Physical Environment	(AH0) Architecture, Master Academic Studies
31.	A116D	Scenic function of architecture and a city - selected chapters	(A00) Architecture, Doctoral Academic Studies (AS0) Scenic Design, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	"A Cognitive Framework for an Urban Enviroment Design Tool", DKS group, TU Delft, Delft, The Netherlands - 405 str. ISBN 90-9014862/0 R11
2.	"The role of the new computer visualization in architecture - a change of paradigm in architectural practice", “La carre bleu”- Revue Internationale d’Architecture, Numéro3/4, 2000. Paris, France - ISSN 0008 6878 str. 25-43 R52
3.	"Electronic culture in Yugoslavia", zbornik radova - UNESCO-v simpozij "Synthesis", Ofenbah, Zapadna Nemačka, 1987. R54
4.	"Technoculture in Yugoslavia", knjiga radova sa kongresa "Technoculture in Europe", Documents of the Council of Europe, Strazbur, Francuska, 1989. R54
5.	"Historical overview of computer art in Yugoslavia", knjiga apstrakata Second Symposia of Electronic Art, SISEA, Hroningen, Holandija, 1990. R54
6.	"The Delft University of Technologys Campus Information System accessed by GIS and Virtual Reality technology", P. Šiđanin, M. J. Kraak i G. J. F. Smets, knjiga radova sa JEC, Hag, Holandija, 1995. R54
7.	"Virtual Reality, the new 3D interface for Geographical Information System", M. J. Kraak, G. Smets i P. Šiđanin, su knjizi radova sa 1st Conference on Spatial Multimedia and Virtual Reality, Lisabon, Portugal, 1995. R54
8.	"A computer simulation model of TU district of Delft with use of the GIS and VR", knjiga radova sa 3re International Conference on Design and Decision Support Systems in Architecture and Urban Planning, Spa, Belgija, 1996. R54
9.	"GIS and VR - an integration", knjiga radova sa EUROMEDIA 96 kongresa, London, Engleska, 1996. R54
10.	"A design tool for analysis and visual quality control of urban environments supported by object database", P. Šiđanin i W. Gerhardt, su knjizi radova sa 4th International Conference on Design and Decision Support Systems in Architecture and Urban Planning, Mastriht, Holandija, 1998. R54

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

Quotation total :	48			
Total of SCI(SSCI) list papers :	5			
Current projects :	Domestic :	1	International :	0

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:	Tepavčević B. Bojan
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.01.2004
Scientific or art field:	Geometric Space Theory and Interpretation in Architecture and Urbanism

Academic carieer	Year	Institution	Field
Academic title election:	2011	Faculty of Technical Sciences - Novi Sad	Geometric Space Theory and Interpretation in Architecture and Urbanism
PhD thesis	2010	Faculty of Technical Sciences - Novi Sad	Geometric Space Theory and Interpretation in Architecture and Urbanism
Magister thesis	2007	Faculty of Technical Sciences - Novi Sad	Architectural-Urbanistic Planning, Design and Theory
Bachelor's thesis	2003	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.	A254	Presentation Techniques of Architectural and Urban Space	(A00) Architecture, Undergraduate Academic Studies
2.	A332	Modeling	(A00) Architecture, Undergraduate Academic Studies
3.	IA007	Geometry and Visualization of 3D Space	(F10) Engineering Animation, Undergraduate Academic Studies
4.	IA015	Application of Engineering Animation	(F10) Engineering Animation, Undergraduate Academic Studies
5.	IGB052	Engineering Animation and Other Media	(F10) Engineering Animation, Undergraduate Academic Studies
6.	A342	Architectural representations 1 - basic level	(A00) Architecture, Undergraduate Academic Studies
7.	A365	Architectural representations 2	(A00) Architecture, Undergraduate Academic Studies
8.	A377	Architectural representations 3	(A00) Architecture, Undergraduate Academic Studies
9.	ASI23A	Digital Design	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
10.	ASO12	Scene Architecture 1	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
11.	ASO16	Scale Modeling in Stage Design	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
12.	ASO22	Presentation Techniques in Stage Design	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
13.	A291	Representation of a Wider Physical Environment	(AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, Master Academic Studies
14.	IA254	Presentation Techniques of Architectural and Urban Space	(F20) Engineering Animation, Master Academic Studies
15.	RPR009	GIS and Regional Development	(RPR) Regional Development Planning and Management, Master Academic Studies
16.	AD0001	Digital Design in Architecture and Urban Planning	(AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, Master Academic Studies
17.	AD0002	Architectural Visualization	(AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, Master Academic Studies
18.	AD0003	Digital fabrication in Architecture	(AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, Master Academic Studies
19.	AD0005	Parametric Design in Architecture and Urbanism	(AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, Master Academic Studies
20.	AD0007	Interactive systems in architecture	(AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, Master Academic Studies
21.	AD0011	Modeling Based on Perspective Images	(AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, Master Academic Studies
22.	AD0012	Dynamic Analysis and Simulation in Architecture	(AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, Master Academic Studies
23.	AD0013	Theory of curves and surfaces	(AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, 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.	ASMI5B	Digital and Media Design	(AS0) Scenic Architecture and Design, Master Academic Studies
25.	ASMI7C	Design of Virtual Space	(AS0) Scenic Architecture and Design, Master Academic Studies
26.	AUP071	Representation of a Wider Physical Environment	(AH0) Architecture, Master Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Stojaković V., Tepavčević B., Image-based modeling approach in creating 3D morphogenetic reconstruction of Liberty Square in Novi Opis Sad, Journal of Cultural Heritage (ISDN 1296-2074) ISSN: 1296-2074, Vol. 12,str. 105-110
2.	Stojaković V., Tepavčević B.,Optimal Methods for 3D Modeling of Devastated Architectural Objects", International Archives of Photogrammetry, Remote Sensing and Spatial Information Sciences, Volume XXXVIII-5/W1, ISSN 1682-1777, ISPRS, Trento, Italija, 2009. pp. 1-6;
3.	Jovanović M., Tepavčević B., Škrinjar L., 2012 Influence of Origami Folding Patterns and Spatial Developabilty in Contemporary Architectural Design, International Scientific Conference moNGeometrija, str.517-529. Novi Sad, Srbija
4.	Trgovi u Vojvodini: Morfogeneza fizička struktura i funkcije, FTN, Novi Sad, 2008.
5.	Tepavčević B.,Stojaković V., Digital Morphogenetic Reconstruction of Liberty Square in Novi Sad, Proceedings of the 5th international meeting of planning, design, construction and building renewal iNDiS 2009, Novi Sad, Srbija, 25-27. novembar, 2009. 451-456 str.
6.	Radović Ranko; Atanacković Teodor; Spasić Dragan; Novaković Branislava: New Challenges and Opportunities for the City of Novi Sad, Novi Sad: Danube Comission and University of Novi Sad, 2004, str. 1- 157.
7.	Šiđanin P., Tepavčević B.,Maketarstvo za studente arhitekture, 2010, Fakultet tehničkih nauka, Novi Sad 2010., FTN Novi Sad, str. 190.
8.	Stojaković V., Tepavčević B., 2011. Single Image Ambiguity and Adjustment of Cultural Heritage Modeling Approach, Education and Research in Computer Aided Architectural Design in Europe – eCAADe, str.99-106. Ljubljana, Slovenija
9.	Tepavčević B.,Stojaković V., 2012. Mathematical Concepts of Space in Contemporary Architecture, Nexus 2012 Relationship between Architecture and Mathematics, Milano, Italija
10.	Šijakov M., Tepavčević B., Štulić R., 2011. Geometry and visualisations of free forms in architectural education, Mathematics in architecture and civil engineering design and education, University of Pécs Pollack Mihály Faculty of Engineering, pp.1-6. Pečuj, Mađarska

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

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

Science, arts and professional qualifications

Name and last name:	Vidaković P. Milan
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	20.01.1998
Scientific or art field:	Applied Computer Science and Informatics

Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	2003	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Magister thesis	1998	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Bachelor's thesis	1995	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics

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

	ID	Course name	Study programme name, study type
1.	E239A	Web Programming	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E2K41	Distributed Artificial Intelligence and Intelligent Agents	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
3.	F501	WEB Design	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies
4.	GI211	Geoinformatics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
5.	GI111	Information technologies in geodesy	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
6.	SE0006	Object oriented programming 1	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
7.	SE239A	Web programming	(P00) Production Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
8.	E2501	Electronic Payment Systems	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
9.	EP007	Document and content management	(I20) Engineering Management, Specialised Professional Studies (IB0) Engineering Management - MBA, Specialised Professional Studies
10.	AD0008	Web design in Architecture	(AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, Master Academic Studies
11.	DRNI03	Selected Topics in Internet-Based Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies

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

	ID	Course name	Study programme name, study type
12.	DRNI05	Selected Topics in Software Standardization and Quality	(E20) Computing and Control Engineering, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies
13.	FDS152	Selected Topics in Computer Graphics	(F00) Graphic Engineering and Design, Doctoral Academic Studies
14.	DAU014	Selected Topics in Computing	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
15.	DRNI16	Selected Topics in Electronic Business	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
16.	DRNI18	Selected Topics in Distributed/Mobile computing	(E20) Computing and Control Engineering, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Vidaković, M., Milosavljević, B., "Internationalisation of the BISIS Library Information System", Proceedings of the 28th International Unicode Conference, Orlando, USA, September 7-9, 2005.
2. Vidaković, M., Sladić, G., Zarić, M., "Metadata Harvesting Using Agent Technology", Proceedings of the 8th IASTED International Conference on Software Engineering and Applications (SEA 2004), Cambridge, USA, November 9-11, 2004., pp. 489-493
3. Vidaković M., Sladić G., Komazec S., "Sistemi za upravljanje elektronskim sadržajima i njihova promena u eUpravi", Info M: časopis za informacione tehnologije i multimedijalne sisteme, 2006., pp. 36-41, ISSN 1451-4397
4. Vidaković, M., Zubić, T., Milosavljević, B., Pupovac, B., Tošić, T., "Processing Bibliographic Documents in the Library Inforation System BISIS", Proceedings of the International Conference on Distributed LibraryInformation Systems, Ohrid, Former Yugoslav Republic of Macedonia, June 1-6, 2004., pp. 65-91.
5. Vidaković, M., Sladić, G., Konjović, Z., "Security Management In J2EE Based Intelligent Agent Framework", Proceedings of the 7th IASTED International Conference on Software Engineering and Applications (SEA 2003), Marina Del Rey, USA, November 3-5, 2003., pp. 128-133.
6. Milosavljević B., Vidaković M., Komazec S. and Milosavljević G., "User Interface Code Generation for Data-Intensive Systems with EJB-based Data Models", In Software Engineering Research and Practice, Las Vegas, NV, USA, 2003.
7. Vidaković, M., Konjović, Z., "EJB Based Intelligent Agents Framework", Proceedings of the 6th IASTED International Conference on Software Engineering and Applications (SEA 2002), Cambridge, USA, November 4-6, 2002., pp. 343-348.
8. Vidaković M., "Agentska okruženja", Zadužbina Andrejević. Beograd, 2007, ISBN: 9-788672-446210
9. Milosavljević B., Vidaković M., Java i Internet programiranje, FTN izdavaštvo, 2007., ISBN 978-86-7892-047-9
10. Okanović D., Vidaković M., „Upotreba JMX mlet servisa za ažuriranje verzija aplikacija“, Zbornik radova YuInfo 2007 (CD), Kopaonik 2007.

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

Quotation total :	119			
Total of SCI(SSCI) list papers :	7			
Current projects :	Domestic :	1	International :	0

Science, arts and professional qualifications

Name and last name:	Vujanović D. Miloš
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Academy of Arts - Novi Sad
	01.01.2005
Scientific or art field:	Fine Arts

Academic carieer	Year	Institution	Field
Academic title election:	2011	Academy of Arts - Novi Sad	Fine Arts
Magister thesis	2000	Academy of Arts - Novi Sad	Fine Arts
Bachelor's thesis	1991	Academy of Arts - Novi Sad	Painting

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

	ID	Course name	Study programme name, study type
1.	IA008	Drawing for Animation and Visual Effects	(F10) Engineering Animation, Undergraduate Academic Studies
2.	IA012	Storyboard	(F10) Engineering Animation, Undergraduate Academic Studies
3.	IGA013	Character Animation	(F10) Engineering Animation, Undergraduate Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Miloš Vujanović, Ana Novaković: Crtanje za animaciju, Fakultet tehničkih nauka, 2012.
2.	Ratko Obradović, Miloš Vujanović: New Curriculum at the Faculty of Technical Sciences: Computer graphics - Engineering Animation, 3rd International Conference moNGeometrija 2012, Novi Sad
3.	Miloš Vujanović, Jelena Janev, Igor Kekeljević, Ana Perišić, Ana Novaković: Practice in Applying Fine Arts Subjects at Computer Graphic - Engineering Animation Studies, 3rd International Conference moNGeometrija 2012, Novi Sad
4.	„MAGNETNO POLjE CRTEŽA“, galerija BLOK, Novi Beograd, 2011.
5.	Izložba crteža i objekata „MAGNETNO POLjE CRTEŽA“, Muzej savremene umetnosti, Novi Sad, 2010.
6.	Izložba slika "Između fizisa i pojezisa", Paviljon "Cvijeta Zuzorić", Beograd, 2012.
7.	„ARTISTS WITHOUT BORDERS / PAPER NO LIMIT“, cuttoing edge U.D.16_11, Galeria Sztuki Wspotczesney, Instytucia Kultury Wojwodztwa Podkarpackiego, Przemysl / Poland, 2009.
8.	„CAVE CONTEMPORARY CAVE“- „WHITE HOLE“, Prima center, Berlin , 2008.
9.	"CRTEŽI" Galerija HAOS, Beograd, 2004.
10.	Ratko Obradović, Miloš Vujanović, Božidar Knežević, Ivica Nikolić, Nenad Kuzmanović: kompjuterski animirani film ALEA IACTA EST, prikazan na 59. Beogradskom festivalu dokumentarnog i kratkometražnog filma, 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:	Zlokolica M. Vladimir
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.03.2007
Scientific or art field:	Computer Graphics

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Computer Graphics
PhD thesis	2007	Ghent University - Gent	Electronics and Telecommunications
Bachelor's thesis	2001	Faculty of Technical Sciences - Novi Sad	Computer Engineering and Computer Communication
Magister thesis	-		Computer Engineering and Computer Communication

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

	ID	Course name	Study programme name, study type
1.	IA020	Advanced Display Technologies	(F10) Engineering Animation, Undergraduate Academic Studies
2.	IA006	Spatial Shape Design	(F10) Engineering Animation, Undergraduate Academic Studies
3.	IA009	3D Modeling	(F10) Engineering Animation, Undergraduate Academic Studies
4.	IA014	Advanced Engineering Animation	(F10) Engineering Animation, Undergraduate Academic Studies
5.	IGA013	Character Animation	(F10) Engineering Animation, Undergraduate Academic Studies
6.	IGA055	Special Visual Effects	(F10) Engineering Animation, Undergraduate Academic Studies
7.	IGB034	Video in Engineering Animation	(F10) Engineering Animation, Undergraduate Academic Studies
8.	IGB340	Fundamentals of Engineering Animation	(F10) Engineering Animation, Undergraduate Academic Studies
9.	IA017	Interdisciplinary Scientific Visualization	(F20) Engineering Animation, Master Academic Studies
10.	IA018	Computer Geometry	(F20) Engineering Animation, Master Academic Studies
11.	AID01	Computer Vision and Graphics in Automotive Industry	(F20) Engineering Animation, Doctoral Academic Studies
12.	AID02	Advanced Technologies for Modelling and Visual Perception of Video and 3D Signalsin Computer Graphics	(F20) Engineering Animation, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. V. Zlokolica, S. Schulte, A. Pizurica, W. Philips, "Fuzzy logic recursive motion detection and denoising of video sequences", Journal of Electronic Imaging, 2006, Vol. 15, No. 2, ISSN 023008.
2. V. Zlokolica, A. Pizurica, W. Philips, "Noise estimation for video based on spatial-temporal gradient histograms", IEEE Transactions on Signal Processing Letters, 2006, Vol. 13, No. 6, str. 337- 340, ISSN 1070-9908
3. Napredni nelinerani algoritmi za otklanjanje suma u video signalu, Doktorska disertacija, Univerzitet u Gentu, Gent, Belgija, 2006,
4. V. Zlokolica, A. Pizurica, W. Philips. "Wavelet-domain video denoising based on reliability measures", IEEE Trans. on Circuits and Systems for Video Technology, Vol. 16, No. 8, August, 2006, pp. 993-1007 , ISSN: 1051-8215
5. A. Pizurica, Lj. Jovanov, B. Huysmans, V. Zlokolica, P. De Keyser, F. Dhaenens and W. Philips, “Multiresolution Denoising for Optical Coherence Tomography: A Review and Evaluation”, Current Medical Imaging Reviews, Vol. 4, No. 4, September 2008. <\eng>
6. T. Melange, M. Nachtegael, E. E. Kerre, V. Zlokolica, S. Schulte, V. De Witte, A. Pizurica, W. Philips, “Video denoising by fuzzy motion and detail adaptive averaging“, Journal of Electronic Imaging, Vol. 17, No. 043005, October, 2008.<\eng>
7. D. Marijan, V. Zlokolica, N. Teslic, V. Pekovic, T. Tekcan, “Automatic Functional TV Set Failure Detection System”, IEEE Transactions on Consumer Electronics, Volume 56, Issue 1, February 2010, pp. 125-133.<\eng>
8. N. Teslic, V. Zlokolica, V. Pekovic, T. Tekcan, M. Temerinac, “Packet-Loss Error Detection system for DTV and set-top box functional testing”, IEEE Transactions on Consumer Electronics, Volume 56, Issue 3, August 2010.<\eng>
9. D. Culibrk, M. Mirkovic, V. Zlokolica, M. Pokric, V. Crnojevic, D. Kukolj, “Salient Motion Features for Video Quality Assessment”, IEEE Transactions on Image Processing, Volume 20, Issue 4, April 2011. <\eng>
10. V. I. Ponomaryov, T. Herfet, V. V. Lukin, B. Smolka, V. Zlokolica: Image and video quality improvement techniques for emerging applications. EURASIP Journal on Advances in Signal Processing, 2012: 33 (2012). <\eng>

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	0			
Total of SCI(SSCI) list papers :	13			
Current projects :	Domestic :	1	International :	0

Science, arts and professional qualifications

Name and last name:	Zuković M. Miodrag
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.12.1995
Scientific or art field:	Mechanics

Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Mechanics
PhD thesis	2008	Faculty of Technical Sciences - Novi Sad	Mechanics
Magister thesis	2000	Faculty of Technical Sciences - Novi Sad	Mechanics
Bachelor's thesis	1994	Faculty of Technical Sciences - Novi Sad	Mechanics

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

	ID	Course name	Study programme name, study type
1.	IAKI01	Selected Chapters in Kinematics	(F10) Engineering Animation, Undergraduate Academic Studies
2.	M103	Mechanics 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
3.	M107	Mechanics 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
4.	M201	Mechanics 3	(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
5.	M2411	Theory of Oscillation	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
6.	M4301	Computer Methods in Mechanics	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
7.	Z108	Fundamentals of Mechanics	(Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
8.	BMI127	Biomechanics	(BM0) Biomedical Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	M44061	Optimization of mechanical systems	(M40) Technical Mechanics and Technical 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
10.	BMIM4A	Transport phenomena and Living systems	(BM0) Biomedical Engineering, Master Academic Studies
11.	M45021	Computer Methods in Mechanics 2	(M40) Technical Mechanics and Technical Design, Master Academic Studies
12.	DTM01	Computer Methods in kinematics and dynamics of mechanical systems	(M40) Technical Mechanics, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Zukovic, M. and Cveticanin, L.: Chaotic Responses in a Stable Duffing System of Non-ideal Type, Journal of Vibration and Control, 2007, Vol. 13, No. 6, str. 751- 767, ISSN 10775463.
2.	Zukovic,M., Cveticanin,L., Chaos in non-ideal mechanical system with clearance, Journal of Vibration and Control , 15(8): 1229–1246, 2009
3.	Miodrag Zuković, TORZIONE PARAMETARSKE OSCILACIJE CILINDRIČNOG ZUPČASTOG PARA SA EVOLVENTNIM OZUBLJENJEM, Magistarska teza, Novi Sad, 2000.
4.	Zuković,M., NELINEARNE TORZIONE OSCILACIJE U ZUPČASTIM PRENOSNICIMA, VII Međunarodna konferencija fleksibilne tehnologije MMA 2000, Novi Sad, 08.juna 2000.
5.	Zuković, M., Radomirović, D. Kuzmanović, S.: Analiza uticaja rasporeda zupčanika na dinamiku dvostepenog reduktora, Drugi skup o konstruisanju, oblikovanju i dizajnu KOD 2002, Novi Kneževac, Maj 2002, str. 141-144.
6.	Radomirović, D., Zuković. M., Gligorić, Radojka: Uticaj ubrzanja, nagiba i mase prikolice na kretanje traktora, Traktori i pogonske mašine, Vol.7, No.4, Novi Sad, Decembar, 2002, str.57-61.
7.	Zuković, M., Radomirović, D. Rakarić, Z.: Nelinearne oscilacije u mehaničkim sistemima sa zazorom, VIII MEĐUNARODNA KONFERENCIJA FLEKSIBILNE TEHNOLOGIJE, MMA 2003., Novi Sad, Srbija i Crna Gora, 26-27. Jun 2003.
8.	Radomirović, D., Maretić, R., Zuković. M.,: UNUTRAŠNJE KOORDINATE RAVANSKIH KRIVIH U MEHANICI, Letopis naučnih radova, Godina 27(2003), broj 1, strana 119-127
9.	Radomirović, D., Gligorić, Radojka, Zuković. M.,: Kretanje traktora sa jednoosovinskom prikolicom, Traktori i pogonske mašine, Vol.8, No.4, Novi Sad, Novembar, 2003, str.124-129.
10.	M. Zuković and Z. Rakarić : Steady state vibration of mechanical system with electric motor and nonlinear spring, Book of Abstracts, The First International Conference on COMPUTATION MECHANICS, Belgrade (CM'04), Serbia and Montenegro, November, 15-17, 2004., 31

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

Quotation total :	0			
Total of SCI(SSCI) list papers :	7			
Current projects :	Domestic :	1	International :	0

Standard 10. Organizational and Material Resources

To perform the study programme, the adequate human, spatial, technical and technological, library and other resources suitable to the study programme features and predicted students` number are provided. Classes on the graduate academic studies Engineering Animation are held in two shifts so the minimum of 2 m2 of space is provided per student.
Lectures are held in amphitheatres, classrooms, computer and specialized laboratories. The library has over 1000 bibliographical units relevant for the study programme Engineering Animation. There is also adequate equipment for all courses with the appropriate textbook literature, devices and supplementary equipment available on time and in a sufficient number for normal performance of the teaching process. Thereby, the adequate information technology is also provided.
Faculty has the library and the study room and provides a seat for each student in amphitheatres, classrooms and specialized laboratories.
Cooperation with reputable world companies is also provided:
Autodesk, Allied Telesyn, Micronas, Philips.

Standard 11. Quality Control

The quality control of the study programme is performed regularly and systematically through self-evaluation and external quality control. The Faculty of Technical Sciences has experience in making students` questionnaires for several decades.
Quality checks of curriculum are being implemented through:
- students`questionnaires at the end of the teaching process in respect of the given course.
- graduates`questionnaires on the occasion of receiving diplomas , regarding the quality of curriculum and logistic support of studies, place of studies (cleanness and tidiness of classrooms, hygiene nodes, ...)
- Students`questionnaires during the academic year validation .
- Students`questionnaires when enrolling the academic year. The students then assess the degree program which they ended in the previous year.
- questionnaires of the teaching and administrative staff on the quality of curriculum and logistics that are supporting the studies. In this questionnaire, the Dean, student services, libraries, and other departments of the Faculty are evaluated. Besides, the comfort of the studying is also assessed (cleanness and tidiness of classrooms…)

Study program quality monitoring is done through a Commission consisting of the department heads who participate in the implementation of a program, and one student representing each year of the study.

Standard 12. Distance Education

Distance learning is not provided for.