

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

Study Programme Accreditation



MASTER ACADEMIC STUDIES

Engineering Animation

STUDY PROGRAMME ACCREDITATION MATERIAL:

ENGINEERING ANIMATION

MASTER ACADEMIC STUDIES

Novi Sad 2012. Prevod sa srpskog jezika:

- Jelisaveta Šafranj
- Ivana Mirović
- Marina Katić
- Vesna Bodganović
- Dragana Gak
- Ličen Branislava





Content

| <u>)</u> |
|---------------------------------------|
| |
| |
| |
| |
| |
| |
| · · · · · · · · · · · · · · · · · · · |
| <u>)f</u> |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |





Content

| Lukić J. Tibor | 40 |
|-------------------------------------------|--------|
| Mihajlović R. Dragan | 42 |
| Obradović M. Ratko | 44 |
| Popkonstantinović D. Branislav | 46 |
| Sečujski S. Milan | 47 |
| Sladoje Matić I. Nataša | 49 |
| Stojaković M. Mila | 51 |
| Stojaković Z. Vesna | 53 |
| Suvajdžin Rakić B. Zorica | 55 |
| Šiđanin S. Predrag | 57 |
| Teofanov Đ. Ljiljana | 59 |
| Tepavčević B. Bojan | 61 |
| Uzelac S. Zorica | 63 |
| Zlokolica M. Vladimir | 65 |
| 10. Organizational and Material Resources | 67 |
| 11. Quality Control | 68 |
| 12. Distance Education | 69 |



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Engineering Animation



| 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 | Master Academic Studies |
| Study scope, expressed in ECTS | 60-62 |
| Academic degree, abbreviation | Master in Computer Graphic Engineering, M.Comp.Graph.Eng. |
| Study length | 1 |
| Programme implementation starting year | 2011 |
| Future course implementation starting year (for new programme) | |
| Number of students attending this programme | 1 |
| Planned number of students to be enrolled in this programme | 32 |
| Programme approval date (state the approval issuer) | 14.11.2012 - Science Education Council 29.11.2012 - University of Novi Sad Senate |
| Programme language | Serbian, English |
| Programme accreditation year | 2010 |
| Web address containing programme information | http://www.ftn.uns.ac.rs |



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

Study Programme Accreditation

Engineering Animation

Standard 00. Introduction

The study programme of the graduate academic studies in Engineering Animation is designed at the Faculty of Technical Sciences of the University of Novi Sad, as an interdisciplinary programme which, besides professional and applied disciplines studied at the Department of general disciplines in technical sciences, also includes disciplines studied at the following departments of the Faculty of Technical Sciences in Novi Sad:

Department of Computing and Control Engineering;

MASTER ACADEMIC STUDIES

Department of Architecture and Urban Planning;

Department of Mechanization and Construction Engineering;

Department of Industrial Engineering and Management; as well as at the

Faculty of Mechanical Engineering of the University of Belgrade.

The knowledge and skills in the field of Engineering Animation are used in different technical disciplines, such as mechanical engineering, architecture, civil engineering, traffic, electrical engineering and electronics, geodesy etc. as well as in the 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.

Contemporary movie industry, especially after introducing 3D technologies in the computer supported movie design, is almost unimaginable without computer graphics and engineering animation. The game industry (computer and non-computer) as well as the WEB design discipline owe their popularity and attractiveness to the sophisticated application of computer aided animation in the graphic environment. It also takes an important place in education not only in the above stated fields, but also as a framework for electronic 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.

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.

Studies of this profile don't exist in Serbia, but similar studies under the name of Computer Graphics or Engineering Animation are held at the American and European Universities for over forty years.

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.



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

Study Programme Accreditation

Engineering Animation

Standard 01. Programme Structure

MASTER ACADEMIC STUDIES

The name of the study programme is Engineering Animation. Academic title acquired is Master in Computer Graphic Engineering.

The outcome of the studying process is the knowledge which enables students to use professional literature, apply knowledge to solve the problems which occur in the professional field, and enables the continuation of the studies through the specialist or doctoral academic studies if students decide so.

The study programme prerequisites for the enrollment are completed undergraduate studies of Engineering Animation with at least 240 ECTS and the passed entrance examination.

In accordance with Regulations of Student Enrollment to the Study Programmes a candidate may score up to 100 points based on grade point average earned during the undergraduate studies and the result achieved through the entrance examination. Grade point average earned during the undergraduate studies is worth a maximum of 40 points.

The entrance examination includes testing of the acquired knowledge and skills in the undergraduate academic studies of Engineering Animation and is worth a maximum of 60 points.

It is valued on the scale of maximum 60 to 100 points. The entrance examination is considered passed if the candidate wins at least 14 out of maximum 60 points.

After the examination a Student Service publishes the final candidate rankings based on their total score by which candidates are then enrolled to the study programme.

Study programme of master academic studies in Engineering Animation lasts one year and is worth 60 ECTS. It includes mandatory and elective courses, professional practice and a graduate – master thesis. This study programme accepts one study group.

The study programme of each course is designed so that students are given the opportunity to concretize the specific problems in the certain field of computer graphics.

Courses in this study programme last for one semester, and are worth a certain number of ECTS. By standards, one ECTS credit is matches approximately 30 hours of student activities (lectures, practice, examination preparation, etc.).

Practice may be auditory, laboratory, computer or computing. Part of the Practice may be carried out in the companies or other institutions in the form of field research.

The group size is determined based on the practice character. 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 adopted rules at the Faculty level. The number of won points is presented in accordance with the unique methodology and represents the student load.

Upon enrollment, each student is assigned a counselor, providing guidance according to student's interests, including the choices of elective courses, practical work and graduate thesis topic. The joined proposal of student and his/her respective counselor is approved by the Evaluation Committee. Counselor's task is to monitor the respective students' activities and improvement during further education at the Faculty.

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.

The study programme proposes that students attend practical work in professional animation studios according to their affinities.

Instead of providing classroom training, the Department organizes field trips, where students are presented with material in the form of practical training. Animated films festivals, computer-animated films and short films festivals are also attended.

Each course is worth certain number of ECTS credits, and the studies are completed when the student fulfils all obligations predicted by the study programme and collects at least 60 ECTS in the process.



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Engineering Animation





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

Study Programme Accreditation

Engineering Animation

Standard 02. Programme Objectives

MASTER ACADEMIC STUDIES

The purpose of the Study Programme is the education of students for the profession of Master in Computer Graphic Engineering in accordance with the needs of society.

The graduate 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 graduate objectives and goals of the Faculty of Technical Sciences.

Graduated engineers of Engineering Animation– Masters are educated by realization of the study programme designed in this way and possess competences in the European and worldwide circles.



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

Study Programme Accreditation

Engineering Animation

Standard 03. Programme Goals

MASTER ACADEMIC STUDIES

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 improved 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 based on teamwork 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.



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Engineering Animation



Graduated students of the graduate 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, behaviour 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 graduate studies in Engineering Animation, the student acquires 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 and apply basic knowledge in different fields. 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 nature.

Graduated students from this level of study possess competences for the application of knowledge in the practice, research, monitoring and application of the novelties in practice, as well as for the cooperation with local, social and international surrounding.

Students are enabled to do research, develop, design, organize, and manage Engineering Animation. During the studies students acquire capabilities and independency. Special emphasis is placed on the development of the teamwork ability and the development of professional ethics.



Study Programme Accreditation

Engineering Animation

Standard 05. Curriculum

MASTER ACADEMIC STUDIES

The curriculum of graduate academic studies in Engineering Animation is designed to satisfy all defined goals.

Structure of the study programme provides around 15% of academical and general education courses, around 20% of theoretical and methodological courses, around 35% of scientific and professional courses and around 30% of professional and applicative courses. Elective courses are present with at least 20% ECTS credits.

Besides this classification, courses which make up the structure of this study programme can be divided into following groups: Professional courses, Electrical and Computer Engineering, Mathematics, General educational courses, Art courses.

Graduate academic studies in Engineering Animation – Master last one year.

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 30 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 graduate - master thesis, which consists of theoretical and methodological preparation necessary for in-depth understanding of the chosen field for writing master thesis paper.

Prior to the defence of the paper, a candidate has to pass the theoretical and methodological foundations before the mentor. The final assessment of the Master thesis is based on the passed theoretical and methodological preparation as well as evaluation of elaboration and defence of the paper itself. Final paper is defended before a committee consisting of at least three professors.



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



Study Programme Accreditation

Engineering Animation

Table 5.2 Course specification

| Course: | | | | | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------|
| Course i | id: | E2505 | | | | Multimedia Sys | tems | | |
| Number | of ECTS: | 6 | | | | | | | |
| Teacher | s: | | Ivetić V. D | Dragan, Suvajdži | n Rakić B. | . Zorica, Mihajlović R. Dra | igan | | |
| Course | status: | | Mandator | у | | | | | |
| Number | of active teac | hing classe | es (weekly) |) | | | | | |
| Le | ectures: | Practical | classes: | Other teachi | ng types: | Study rese | arch work: | Other cla | asses: |
| | 3 | (|) | 3 | | 0 | | 0 | |
| Precond | lition courses | | | None | | | | | |
| 1. Educa | ational goal: | | | | | | | | |
| Enabling | g students to c | ollect, han | dle, archive | e, programme, sy | ynchronize | e and present multimedia | data flow in the netw | vork environm | ent. |
| 2. Educational outcomes (acquired knowledge): | | | | | | | | | |
| Acquired | d knowledge a | nd skills a | re used for | development/us | e of softwa | are/systems of expressed | I multimedia. | | |
| 3. Course content/structure: | | | | | | | | | |
| Multimedia (concepts, characteristics and media data flow). Characteristics of audio/video/image-graphic media (music-MIDI; speech; video-TV and HDTV / 3D). An overview of standards for compression and optical storage (standard algorithms; JPEG2000 and MPEG 1, 2, 4, 7 and 21; CD DA-ROM-WO-RW; DVD; holograph). MM communication systems (timer-user-control space and CSCW; requirements and limitations of the protocol on presentation-application and network-transportation ISO-OSI levels) and videoconference. MM data base (structures and operations). Synchronization of MM data (four-layer reference model and distributed systems). Program abstraction, tools and applications of script languages: authoring systems and MM kiosk) | | | | | | | | | ; speech; MPEG 1, uirements MM data ostraction, |
| 4. Teach | ning methods: | | | | | | | | |
| Lectures lectures levels, o Success examina | s, Computer F . During Pract creating simp sfully solved ation, tests ar | Practice, C tice, multir le system exercises nd prerequ | onsultation nedia cont s for exch are the ex uisites are | ns. The course is ents are present ange of multim camination prese added to form | s organize ted and m edia cont equisites. the final | ed in 2 wholes which are nanipulated on programs ents in real time. The o The examination is tak grade. | e checked in the form (DirectX or OpenG quality of the Practi en in the written fo | n of 2 tests d L) or authorin ice work is e rm. Points w | luring the g (Flash) valuated. on at the |
| | | | | Knowledge e | evaluation | (maximum 100 points) | | - | |
| | Pre-examina | ition obliga | tions | Mandatory | Points | Final e | kam | Mandatory | Points |
| Complex | x exercises | | | Yes | 50.00 | Theoretical part of the ex | am | Yes | 30.00 |
| Test | | | | Yes | 10.00 | | | | |
| 1031 | | | | res | Liter | ature | | | |
| Ord | A | uthor | | | Title | | Publish | er | Year |
| 1. | D. Ivetić | | Os | novi interaktivnih | sistema : | sa elementima | | - | 2012 |
| 2, | R. Steinmetz | , K. Nahrst | edt Ap | unarske grafike Iltimedia: Compu plications | ting, Com | muniactions & | Pretince Hall | | 1995 |



Γ

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

Study Programme Accreditation

Engineering Animation



T

 MASTER ACADEMIC STUDIES

 Table 5.2 Course specification

| Course | | | | | | | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------|----------------------|------------|--------------------------|--------------------------------------|-----------|--------|--|--|
| Course | id: | IA017 | | Inte | erdisci | plinary Scientific | c Visualizatio | n | | | |
| Numbe | r of ECTS: | 4 | | | | | | | | | |
| Teache | r: | | Popkons | stantinović D. Brar | nislav | | | | | | |
| Course | status: | | Mandato | ory | | | | | | | |
| Numbe | r of active tead | hing classe | es (weekl | y) | | | | | | | |
| L | ectures: | Practical | classes: | Other teachi | ng types: | Study resea | arch work: | Other cla | asses: | | |
| | 2 | 0 |) | 2 | | 0 | | 0 | | | |
| Precon | dition courses | - | | None | | | | | | | |
| 1. Educ | ational goal: | | | | | | | | | | |
| Enablin comput | Enabling students to creatively and practically use all ways, methods and techniques of visualization (video/movie, multimedia, internet, computer graphic and VR (virtual reality) in clarifying, solving and presenting different logical, scientific and engineering problems. | | | | | | | | | | |
| 2. Educational outcomes (acquired knowledge): | | | | | | | | | | | |
| To use acquired knowledge in the further educational process as well as in the future professional work. | | | | | | | | | | | |
| 3. Course content/structure: | | | | | | | | | | | |
| The concept, definitions and importance of visual perception and visual communications in comprehension, understanding and solving different abstract and specific problems. Identification of engineering and scientific problems. The problem of concepts and abstraction. Symbolic visual-graphical interpretation and concretization of abstraction; Introduction to object methodology and IML. Basic techniques of visualization: sketching, elements of constructive geometry, theory of sets and Boolean algebra, UML methodology; computer visualization and 3D modeling of abstract and specific engineering and scientific object, structures and problems; introduction to animation, basic and advanced modeling techniques, generation and simulation of motion; problems and methods of visual-graphic presentation; movie and animation: movie language, frame, lighting, editing; sound music and movie: sound effects, sound synthesis, | | | | | | | | | | | |
| 4. Teac | hing methods: | | | | | | | | | | |
| Lecture | s and Practice | in the com | puter lab | oratory. Consultat | ions. | | | | | | |
| | | | | Knowledge e | valuation | (maximum 100 points) | | | | | |
| | Pre-examina | ation obliga | tions | Mandatory | Points | Final ex | kam | Mandatory | Points | | |
| Compu | ter exercise at | tendance | | 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 | เสรห | | | Yes | 15.00 | atura | | | | | |
| | | | | | Liter | alure | | | | | |
| Ord. | A Presiden D | Author | | | I itle | | Publish | er | Year | | |
| 1, | Branislav Po | ркonstantir | iovic Ir | nterdisciplinarna na | aucna vizi | ualizacija - skripta | rakultet tehničkih r | паика | 2010 | | |



State of the second

Study Programme Accreditation

Engineering Animation

Course: Software Configuration Management Course id: E2510 Number of ECTS: 6 Teacher: Dejanović R. Igor Course status: Mandatory Number of active teaching classes (weekly) Other teaching types: Lectures: Practical classes: Study research work: Other classes: 3 0 3 0 0 Precondition courses None 1. Educational goal: To make students capable of applying best practice, methods, techniques and tools in the domain of Software Configuration Management (SCM) with the emphasis on the SCM process introduction and improvement. 2. Educational outcomes (acquired knowledge): At the end of the course students are capable of: introducing SCM best practice, methods and tools in the software development process, improve existing SCM process, analyze available tools and identify advantages and disadvantages of each, understand pros and cons of different version control systems, change management systems, build and release management systems, systems for managing alternative lines of development etc. By using modern SCM tools and by the development and documentation of SCM process and the development of supporting application, students acquire a broad range of practical skills. 3. Course content/structure: Theoretical lectures: Basic definitions and historical development of Configuration Management - CM. Traditional notion of CM; Identification of configuration, change control, status accounting, audit and verification. Configuration management in the context of software development (Software Configuration Management - SCM). Source code management; Version Control System - VCS; architectures, advantages and disadvantages : social coding; repository models; concurrent change management models; alternative development courses. Dependency management. Build management, automation, tools. Change Management; Events; Requests for change tracking; support systems. Issue management; identification; traceability; automation. Deployment: identification, authentication security, planning. Industrial standards and frameworks. Models of maturity. Practical classes: file compare tool patch and diff. Centralized version control systems (Subversion). Distributed version control systems (Git, Mercurial). Tools to support issue tracking (Trac). Code review (ReviewBoard, Rietveld, Gerrit, barkeep). Tools for automated build (Apache Ant + Ivy, Maven). Systems for continuous integration (Jenkins). The design and documentation of the SCM process in accordance with the recommended practice. Creating Web applications to support the proposed SCM process. 4. Teaching methods: Lectures, Computer exercises; Consultation. Design and implementation of project assignment by working within project teams. At the end of the semester, public presentations of the most successful teams are organized with the discussion of the obtained results. The defense of project assignment is oral. The final exam is oral. Final grade is based on the score from the final exam and project defense. Knowledge evaluation (maximum 100 points) Pre-examination obligations Mandatory Points Final exam Mandatory Points Project 50.00 Theoretical part of the exam Yes 50.00 Yes Literature Ord. Title Publisher Author Year A. Mette, J. Hass Configuration Management Principles and Practice Addison Wesley 2003 1 Configuration Management Best Practices: Practical 2. Aiello, R. & Sachs, L. Addison-Wesley Professional 2010 Methods that Work in the Real World Software configuration management patterns: 3, Berczuk, S. & Appleton, B Addison-Wesley Professional 2003 effective teamwork practical integration Department of Defense--United 2001 4, DoD USA Configuration management guidance States of America Chacon, S.; Hamano, J. & 5. Pro Git APress 2009 Pearce, S Packt Pub Limited 6, Reelsen, A Play Framework Cookbook 2011



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



Study Programme Accreditation

Engineering Animation

Table 5.2 Course specification

| Course: | | | | | | | | | | |
|---------------------------|------------------|---------------|---------------|-------------------|-------------|----------------------------|------------|-----------|--------|--|
| Course | id: | IGASP0 | | | ŀ | Professional Pra | actice | | | |
| Number | of ECTS: | 2 | | | | | | | | |
| Teacher | rs: | | | | | | | | | |
| Course | status: | | Mandatory | y | | | | | | |
| Number | of active tead | hing classe | s (weekly) | | | | | | | |
| Le | ectures: | Practical | classes: | Other teaching | ng types: | Study rese | arch work: | Other cla | asses: | |
| | 0 | 0 | | 0 | | C | | 3 | | |
| Precondition courses None | | | | | | | | | | |
| 1. Educa | ational goal: | | | | | | | | | |
| Extendir | ng the practica | al knowledg | e in the fiel | ld of engineering | , animatio | n. | | | | |
| 2. Educa | ational outcom | nes (acquire | ed knowled | ge): | | | | | | |
| Acquired | d knowledge o | an be used | in solving | specific enginee | ring probl | ems. | | | | |
| 3. Cours | se content/stru | icture: | | | | | | | | |
| Solving | specific engin | eering prob | lems in pra | actice. | | | | | | |
| 4. Teach | ning methods: | | | | | | | | | |
| Lectures | s are held in th | ne enterpris | es or scien | tific educational | institution | is through independent w | ork. | | | |
| | | | | Knowledge e | valuation | (maximum 100 points) | | | | |
| | Pre-examina | ation obligat | ions | Mandatory | Points | Final e | xam | Mandatory | Points | |
| Homewo | ork | | | Yes | 70.00 | Theoretical part of the ex | am | Yes | 30.00 | |
| | | | | | Liter | ature | | | | |
| Ord. | A | luthor | | | Title | 2 | Publishe | er | Year | |



Course:

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

nimation

Study Programme Accreditation

Engineering Animation

Table 5.2 Course specification

| Course | id: | EKADO | | | Diaita | l Audio Signal F | Processina | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------------|--|--|--|
| Number | | EK422L 5 | | | | | | | | | | |
| Teacher | 'S' | 5 | Delić D \ | /lado. Sečujski S | Milan | | | | | | | |
| Course | status: | | Elective | | | | | | | | | |
| Number | of active teac | hing classe | es (weekly) |) | | | | | | | | |
| Le | ectures: | Practical | classes: | , Other teachi | na types: | Study resea | arch work: | Other cla | isses: | | | |
| | 2 | 1 | 0.000001 | 1 | g (jpcci | 0 | | 0 | | | | |
| Precond | lition courses | | | None | | | | - | | | | |
| 1 Educa | ational goal. | | | | | | | | | | | |
| The cou with auc characte | irse objective dio signal digi eristics, as we | is to deepe tal process ell as the k | en the kno sing profes nowledge | wledge of stude ssionally, electri of their process | nts about cal engine sing and t | audio signals, especially eers should have good u ransmission possibilities | about speech and n inderstanding of spo | nusic. In orde ken and mus | er to work sic signal | | | |
| 2. Educa | ational outcom | es (acquire | ed knowled | dge): | - | | | | | | | |
| In the le process process audio fo professi | ctures student ing and analys ing of music s orensics. The onally. They g | s gain func sis, as well ignals and y will be a ain practic | lamental k as compr apply aud able to as al experie | knowledge about ression, coding a lio effects. They ssess acoustic nce with audio e | both spee nd transm also get b environm quipment, | ech and music signals. Ba hission of audio signals ir pasic knowledge necessa ent and measure the ir , music instruments and s | ased on that, they are a competent way. T ry for working on spe- ntelligibility of spee- software for digital au | able to work hey will learr eech technolo ch and musi udio signal pr | on audio to make ogies and c quality ocessing. | | | |
| 3. Cours | se content/stru | cture: | | | | | | | | | | |
| (G.711) measure technolo Forensio •Studio filters, r •Acousti assessn music p transmis coding/o audio tra 4. Teach Lectures and vide followed signals) learn ab write a r | •Voice production, transmission, and perception. Modelling of speech production and perception. •Speech signal analysis in time and frequency domains. Digital analysis and coding of speech signal (PCM, LPC, CELP). •Coding and transmission of speech signal (G.711(64kbps), ADPCM(32), G.728(16), GSM(13), CELP(4), LPC(2.4)). •Speech quality evaluation and speech intelligibility measurements (objective measurements and subjective assessment of acoustical characteristics of voice). •Introduction to speech technologies: automatic speech recognition, speaker and emotion recognition, text-to-speech synthesis. •Introduction to audio forensics. •Forensic speaker recognition. •Characteristics of music signals. Music instruments, placement of microphones for recording of orchestra. •Studio equipment and audio signal processing (multi-channel recording (5.1, 7.1, 10.2,), audio-visual controls, mixing, level regulation, filters, regulation of dynamics and reverberation, echo, panorama, monitoring and sound editing, sound analysis and synthesis). •Acoustical quality of both professional rooms and systems 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). •Standards for coding/compression and transmission of audio signals (Dolby, AAC, MPEG). •Audio signal broadcasting (FM stereo, RDS) and digital audio transmission (GSM, VoIP, DAB - digital radio). 4. Teaching methods: Lectures are conducted using Power Point presentations available to students in .pdf format. Presentations with specially created audio and video clips and animations demonstrate and illustrate key details in the lectures. The first part of the course (speech signals) is followed by auditory exercises in the Laboratory of Acoustics and Speech Technologies at FTN. The | | | | | | | | | | | |
| the Cha | | Iumcations | anu Sign | Knowledge e | valuation | (maximum 100 points) | | | | | | |
| | Pre-examina | tion obligat | tions | Mandatory | Points | Final ex | kam | Mandatory | Points | | | |
| Presenta | ation | | | Yes | 10.00 | Written part of the exam | - tasks and theory | Yes | 50.00 | | | |
| Term pa | aper | | | Yes | 20.00 | Coloquium exam | | No | 20.00 | | | |
| Test | | | | Yes | 10.00 | | | | | | | |
| Test | | | | Yes | 10.00 | | | | | | | |
| | | and the second | | | Liter | ature | | r | X | | | |
| Ord. | A | uthor | "0 | ovorna komunika | Title |) Ingija psihoakustika i | Publishe | er | Year | | | |
| 1, | Slobodan Jov | /ičić | pe | rcepcija" | aoija - IiZlū | | Nauka, Beograd | | 1999 | | | |
| 2, | B. Gold and N | N. Morgan | Sp Pe | Speech and Audio Signal Proc Proc. and JW&S 2 | | | | 2000 | | | | |
| 3, | Vlado Delić | | Sk | ripta sa predava | nja | | www.ktios.net | | 2012 | | | |
| ى, ا | | | 36 | inpia sa preuaval | ιja | | www.ku05.ilet | | 2012 | | | |





Study Programme Accreditation

Engineering Animation

Course: Computer Vision (Digital Image Processing 2) Course id: EK522 Number of ECTS: 5 Teachers: Crnojević S. Vladimir, Sečujski S. Milan Course status: Elective Number of active teaching classes (weekly) Lectures: Practical classes: Other teaching types: Study research work: Other classes: 3 0 2 0 0 Precondition courses None 1. Educational goal: Becoming familiar with the basic principles in the field of computer vision and with advanced techniques of digital image processing; Becoming familiar with up-to-date methods in this field by working on several projects. 2. Educational outcomes (acquired knowledge): The overview of principles of modern computer vision methods. Student is able to understand the basic principles and methods used in computer vision, and can broaden their knowledge by working on a specific problem. 3. Course content/structure: Visual system components: Image processing systems, computer vision signal processing, computer vision shape recognition, algorithm performance evaluation, types of tasks in computer vision. Sensors and image: radiation and illumination, optics, radiometry, sensors, geometric callibration, tridimensional vision. Signal processing and shape recognition: representation of multidimentional signals, environment operators, Movement, 3D algorithms, non-linear filter design, adaptive filtering and segmentation, morphological operators, probability models in computer vision, fuzzy signal processing, neural networks in signal processing. Computer vision projects: Object recognition using intelligent cameras, quality control in shipyards, topological maps of microstructures, fast 3D oject mapping, 3D plane reconstruction from the image sequence, movement mapping. 4. Teaching methods: Lectures, computer practice, projects. Knowledge evaluation (maximum 100 points) Pre-examination obligations Mandatory Points Final exam Mandatory Points Project defence 50.00 Practical part of the exam - tasks 50.00 Yes Yes Literature Title Publisher Ord. Author Year Rafael Gonzalez, Richard 1, **Digital Image Processing** Prentice Hall 2002 Woods 2, E.R.Davies Machine vision, 3rd edition Elsevier 2005



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



Study Programme Accreditation

Engineering Animation

| Table 5.2 | Course | specification |
|-----------|--------|---------------|

| Course | : | | | | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------|
| Course | id: | IA005 | | | | History of Anim | ation | | |
| Numbe | r of ECTS: | 3 | | | | | | | |
| Teache | rs: | | Janev B. Je | elena, Obradovi | ić M. Ratk | 0 | | | |
| Course | status: | | Elective | | | | | | |
| Numbe | r of active teac | hing classe | es (weekly) | | | | | | |
| L | ectures: | Practical | classes: | Other teachi | ng types: | Study rese | arch work: | Other cla | asses: |
| | 3 | (|) | 0 | | 0 | | 0 | |
| Precon | dition courses | - | | None | | | - | | |
| 1. Educ | ational goal: | | | | | | | | |
| Learning about key points in history of animation and most influence works. Training in critical and analytics approaches to history circumstances, technical-technological development and visualizations in animation. Training in analysis of visual elements, directing and montage, animation principles and technological solutions. | | | | | | | | | |
| 2. Educational outcomes (acquired knowledge): | | | | | | | | | |
| Making approad | of a solid base ches to animat | e for greate ion. Apply a | r quality in w animation te | vork of compute chniques in furf | er animato ther educa | or, knowing key points in lation and professional wo | history of animation. rk. | Development | t of critical |
| 3. Cour | se content/stru | ucture: | | | | | | | |
| The pro expecta and cor history animati | ogram contain ations in mode relation of this of animation a ons. | lectures in rn animatic s paradigm are also inc | history of a on, developn s with histor luded and e | nimation. Histo nent of technica ry circumstance xamples of ani | ery of anin al-technol es and pro mation in | nation is represented with ogical solutions, develop ogress of technology. Ex motion pictures. Last lec | h key points which c ment of visual comm cept pure animation ctures are about tenc | hanged stand nunication an , in this less lencies of the | dards and d themas, ons of the e future of |
| 4. Teac | hing methods: | | | | | | | | |
| Lecture Exam g | s and exercise rade is summa | es. Consulta ary of lesso | ations. ns attendand | ce, seminar wo | rks and fir | nal exam results. | | | |
| | | | | Knowledge e | valuation | (maximum 100 points) | | | |
| | Pre-examina | ation obliga | tions | Mandatory | Points | Final e | xam | Mandatory | Points |
| Project | | | | Yes | 30.00 | Written part of the exam | tasks and theory | Yes | 30.00 |
| Project | | | | Yes | 30.00 | | | | |
| rest | | | | Yes | 10.00 | | | | |
| Ord | | uthor | | | Liter | ature | Dukket | ~ ~ | Vaar |
| | Howard Book | kerman | Anim | nation: The M/h | | | | | 7 ear |
| Ι, | nowaru beci | Cilliali | | | ole Story | | | | 2003 |



The second

Study Programme Accreditation

Engineering Animation

| Table 5 | 5.2 Course s | pecifica | tion | | | | | - | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------|--|--|--|
| Course: | | | Dro | contation | Toobo | iques of Archite | atural and Lir | han Sna | | | | |
| Course | id: l. | A254 | FIE | Sentation | rechi | iques of Archite | | ban Spa | | | | |
| Number | of ECTS: 3 | 3 | | | | | | | | | | |
| Teache | rs: | | Šiđanin S. | Predrag, Tepav | včević B. B | Bojan | | | | | | |
| Course | status: | | Elective | | | | | | | | | |
| Number | of active teach | ning classe | es (weekly) | | | | | | | | | |
| L | ectures: | Practical | classes: | Other teachi | ng types: | Study resea | arch work: | Other cla | sses: | | | |
| | 2 | C |) | 1 0 0 | | | | | | | | |
| Precond | lition courses | | <u> </u> | None | | | | | | | | |
| 1. Educ | ational goal: | | | - | | | | | | | | |
| Enablin | g students to us | se differen | t, verbal, ar | nd computer pre | sentation | techniques for their work | | | | | | |
| 2. Educ | ational outcome | es (acquire | ed knowled | ge): | | | | | | | | |
| To appl | y acquired know | wledge in t | he further e | educational proc | ess as we | ell as in the future profess | ional work. | | | | | |
| 3. Cours | se content/struc | cture: | | | | | | | | | | |
| Introduction and definition of the basic concept – presentation. Presentation techniques: verbal, multi-medial and special. Classification of presentation: by target groups, by purpose, by the desired effect, by the method, by the applied techniques and the media. Application of computer and multimedia technology in presentations. Specific types of presentation: verbal, visual, computer, Internet and video presentations. Application of programmes for the preparation of presentation: PowerPoint. Photoshop, Illustrator, InDesign, HTML, Dream-weaver, Elash, Sound Forge, Premiere, and others, Examples of different types of presentations. | | | | | | | | | | | | |
| 4. Teac | hing methods: | | | | | | | | | | | |
| Lectures Part of f student are dor colloqui least 30 | s and Practice i the course whice may take the r le on the comp ums – persona % of the points at the collogu | in the com ch represe next colloq puter and il presenta s in each o | puter labora ints a logica juium only i are grade ation. In ord of the three | atory. Consultat al whole is pass if he/she won at d as such. The ler for the stude colloquiums. T | ions. ed throug least 30% last coll nt to pass he course | h three colloquiums. The % of the points at the pre- oquium is taken through s the examination, beside g grade is formed based o | y are done in the con vious colloquium. The or verbal presentation so other prerequisites on the lecture and pra | nputer labora e first two col n of the prev s, he/she has actice attenda | tory. The loquiums rious two to win at ance and | | | |
| | | | | Knowledge | valuation | (maximum 100 points) | | | | | | |
| | Pre-examinat | ion obliga | tions | Mandatory | Pointe | Final A | am | Mandatory | Points | | | |
| Comple | x exercises | | | Ves | 70.00 | Oral part of the exam | | Yes | 30.00 | | | |
| Comput | er exercise atte | endance | | Yes | 0.00 | | | 100 | 00.00 | | | |
| Lecture | attendance | | | Yes | 0.00 | | | | | | | |
| | | | | | Liter | ature | | | | | | |
| Ord. | Au | uthor | | | Title |) | Publishe | er | Year | | | |
| 1, | grupa autora | | Teh | nika prezentacij - Skripta | e arhitekt | onskog i urbanističkog | Novi Sad | | 2007 | | | |
| 2, | Romanielo, S | | Pho | otoshop CS2 | | Kompjuterska biblio | teka, Čačak | 2006 | | | | |
| 3, | Aleksić, Z. | | Illus | strator CS2 | | Kompjuterska biblio | teka, Čačak | 2006 | | | | |
| 4, | Aleksić, Z. | | Illus | strator CS | | | Kompjuterska biblio | teka, Čačak | 2005 | | | |
| 5, | Desimirović, N M. | N.; Ranđel | ović, We | b dizajn | | | PC knjiga, Beograd | | 2006 | | | |
| 6, | Holšlag, E. | | HTN | ML i CSS | | | Kompjuterska biblio | teka, Čačak | 2006 | | | |
| 7, | lgić, D. | | Sou | und Forge | | | Sinkopa, Beograd | | 2002 | | | |



Study Programme Accreditation

Engineering Animation

Course: Elements of Artistic Expression Course id: IA021 Number of ECTS: 4 Teacher: Janev B. Jelena Course status: Elective Number of active teaching classes (weekly) Study research work: Lectures: Practical classes: Other teaching types: Other classes: 2 2 0 0 0 Precondition courses None 1. Educational goal: Adopting the concepts of the art form theory and practical application of artistic elements through creative art practice. 2. Educational outcomes (acquired knowledge): Enabling application of theoretical knowledge in the creative, practical student work. Understanding the XX century art and contemporary artistic tendencies. Enabling students to notice artistic and aesthetical values of the art pieces in classical and new media (including animation). 3. Course content/structure: (through studying representative artistic pieces and practical student work) · LINE: line origin; contour and texture line; types of lines according to character, Emotional action of the line character, creative gesture, handwriting of the artist - SURFACE or character - TEXTURE: properties, types of texture (matte, glossy, rough, smooth); texture as the element of shape and plastic expression - COLOR: color classification, Oswald circle; color contrast; color harmony; color symbols - LIGHTING: lighting keys, application of light to achieve volume, space presentation and atmosphere; "chiaro-scuro" and "notan" - DIRECTION, direction, position - SIZE: size relationships, proportion, ``golden section`` - COMPOSING PRINCIPLES: repetition, gradation, harmony, contrast, balance 4. Teaching methods: Lectures and Practice in the drawing classroom. Consultations. Knowledge evaluation (maximum 100 points) Pre-examination obligations Mandatory Points Final exam Mandatory Points Exercise attendance 5.00 Written part of the exam - tasks and theory 30.00 Yes Yes Lecture attendance 5.00 Yes Project 30.00 Yes Project 30.00 Yes Literature Ord. Title Author Publisher Year Zavod za udžbenike i nastavna 1999 Kosta Bogdanović 1. Teoriia forme sredstva, Beograd 2, Mišević Radenko 1989 Izbor tekstova za izučavanje predmeta teorije forme U.U. Beograd Pavle Vasić Univerzitet umetnosti, Beograd 1959 3, Uvod u likovne elemente 4. Johaness Itten Umetnost boje Univerzitet umetnosti, Beograd 1973



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

Study Programme Accreditation



MASTER ACADEMIC STUDIES

Engineering Animation

Table 5.2 Course specification

| Course | | | | | | | | | | |
|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------|
| Course | id: | IA022 | | | | N | umerical Optimi | zation | | |
| Number | of ECTS: | 5 | | | | | | | | |
| Teache | rs: | | Lukić J. | Tibor | , Teofanov Đ | . Ljiljana, | Uzelac S. Zorica | | | |
| Course | status: | | Elective | • | | | | | | |
| Number | of active teac | hing classe | es (weekl | y) | | | | | | |
| L | ectures: | Practical | classes: | | Other teachi | ng types: | Study resea | arch work: | Other cl | asses: |
| | 2 | 2 | 2 | | 0 | | 0 | | 0 | |
| Precon | dition courses | - | | | None | | • | | | |
| 1. Educ | ational goal: | | | | - | | | | | |
| Acquis problen optimiz | Acquisition of basic knowledge in numerical optimization. Developing ability for independent analysis and solving of various optimization problems. Student is trained for independent creation of numerical models of optimization problems. Special attention is dedicated to optimization problems in the filed of digital image processing. | | | | | | | | | |
| 2. Educ | ational outcom | nes (acquir | ed knowle | edge): | | | | | | |
| Basic knowledge in theory of numerical optimization. Enable students to develop and analyze numerical models. | | | | | | | | | | |
| 3. Cour | se content/stru | icture: | | | | | | | | |
| Mathem optimize Steepes method Newton | natical formulat ation. Stochas st descent me s: linear CG n method, Leve | tion of the o stic and de thod, New nethod, no enberg-Ma | optimizati eterminist ton's me nlinear C rquardt n | ion pro tic opt thod, CG me nethoo | oblem. Rate imization. C Quasi-Newt thod. Least- d. Introductio | of converg ontinuous on metho squares (on to cons | gence. Global and local o and discrete optimizati ds. Trust-region method: LS) problems: linear LS strained optimization. Pe | ptimization. Constrai on. Line search met s. Cauchy point. Co problems, nonlinear nalty function. Qua | ned and unco hods: Wolf c njugate Grac r LS problem dratic progra | onstrained onditions, lient (CG) s, Gauss- mming. |
| 4. Teac | hing methods: | | | | | | | | | |
| Lecture example software | s and practica es from optimi e. Special atte | al exercise zation theo ention is de | s on the ory. Durir edicated t | comp ng pra to opti | outer. During octice, which mization pro | lectures accompai blems in t | theoretical part of the co nies lectures, typical prob he filed of digital image p | ourse is presented a plems are solved app processing. | and followed blying certain | by typical computer |
| | | | | | Knowledge e | evaluation | (maximum 100 points) | | | |
| | Pre-examina | ation obliga | tions | | Mandatory | Points | Final ex | kam | Mandatory | Points |
| Present | ation | | | | Yes | 30.00 | Written part of the exam | - tasks and theory | Yes | 70.00 |
| | | | | | | Liter | ature | - | | |
| Ord. | A | uthor | | | | Title | | Publish | er | Year |
| 1, | Jorge Noced Wright | al, Stepher | n J. N | lumer | ical Optimiza | ation | | Springer | | 2006 |
| 2, | Reiner Horst | , Hoang Tu | iy C | Global | Optimization | ו | | Springer | | 1996 |
| 3, | Jan A. Snym | an | P | Practic | al Mathemat | ical Optim | ization | Springer | | 2005 |
| 4, | Slanjo Zobec | , Jovan Pe | etrić N | Velinea | arno progran | niranje | | Naučna knjiga | | 1989 |



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



Study Programme Accreditation

Engineering Animation

Table 5.2 Course specification

| Course: | | | | | | | | | | |
|--------------------------------|--------------------------------------------------------------------------------|------------------------------------------------|-----------------------------------------|----------------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------|----------------------|--|
| Course | id: | IA018 | | | | Computer Geor | netry | | | |
| Number | of ECTS: | 5 | | | | | | | | |
| Teache | rs: | - | Obradović I | M. Ratko, Slad | oje Matić | I. Nataša, Zlokolica M. Vla | adimir | | | |
| Course | status: | | Mandatory | | | | | | | |
| Number | of active tead | hing classes | s (weekly) | | | | | | | |
| L | ectures: | Practical of | classes: | Other teachi | ng types: | Study rese | arch work: | Other cla | asses: | |
| | 2 | 0 | | 2 | | 0 | | 0 | | |
| Precond | dition courses | - | | None | | | | | | |
| 1. Educ | ational goal: | | | | | | | | | |
| Enablin | Enabling students to solve complex problems in computer graphics and geometry. | | | | | | | | | |
| 2. Educ | 2. Educational outcomes (acquired knowledge): | | | | | | | | | |
| To apply | y acquired kno | owledge in th | ne further ea | ducational proc | cess as we | ell as in the future profess | ional work. | | | |
| 3. Course content/structure: | | | | | | | | | | |
| Algorith comput Visualiz | ms and proce er geometry. ation of visib | dures for so Point locati iility. Fracta | lving funda ion. Conve Is. Vornoi | amental geome ex Hull visualiz diagrams, Del | etry proble zation: tw launay tri | ms, which are set in two o-dimensional, dynamic angulation. Geometry o | dimensions or three , three-dimensional f rectangle. | dimensions. Drawing the | Dynamic e graphs. | |
| 4. Teac | hing methods: | | | | | | | | | |
| Lecture | and Practice i | in the compu | iter laborato | ory. Consultatio | ons. | | | | | |
| | | | | Knowledge e | evaluation | (maximum 100 points) | | | | |
| | Pre-examina | ation obligati | ons | Mandatory | Points | Final e | kam | Mandatory | Points | |
| Comput | er exercise at | tendance | | 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 task | | | Yes | 15.00 | | | | | |
| FIOJECI | lask | | | Yes | 15.00 | oturo | | | | |
| Ord | ^ | uthor | - T | | Title | | Bublich | or I | Voor | |
| Olu. | Franco P. Pr | eparata. Mic | I Itie Publisher | | | | | Teal | | |
| 1, | lan Shamos | Dettiete Det | Com | iputational Geo | metry: an | Introduction | Springer-Verlag | | 1988 | |
| 2, | Eades, Robe | erto Tamassi ollis | a, Drav | ving: Algorithm | s for the \ | isualization of Graphs | Prentice-Hall | | 1999 | |
| 3, | Mark de Berg Kreveld, Mar Otfried Schw | g, Marc van k Overmars, ∕arzkopf | , Com | putational Geo | ometry: Al | gorithms and Applications | Springer-Verlag | | 2000 | |



Study Programme Accreditation

Engineering Animation



 MASTER ACADEMIC STUDIES

 Table 5.2 Course specification

| Course: | | | | | | | | | | |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------------------|----------------------------------------------------------|----------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------|------------------------|--|
| Course | id: | IAM005 | | Mathematical Game Theory | | | | | | |
| Number | of ECTS: | 4 | | | | | | | | |
| Teache | | | Stojaković M. Mila | | | | | | | |
| Course | status: | | Mandator | ry | | | | | | |
| Number | of active teac | hing classe | es (weekly | s (weekly) | | | | | | |
| L | ectures: | Practical | classes: | Other teachi | ng types: | Study resea | arch work: | Other cla | sses: | |
| | 2 | 2 | 2 | 0 | | 0 | | 0 | | |
| Precond | lition courses | - | | None | | • | | | | |
| 1. Educ | ational goal: | | | | | | | | | |
| The edu position contribu | ucational obje al game theor ites to the full | ctive of the y. Suggest understan | e course i ted topics ding of the | s to introduce ba have both theore designing proce | asic conce etical and ess, imple | ept of combinatorial gan practical importance. Th mentation and game des | ne theory, with a spo e knowledge of math sign within computer | ecial emphas nematical gan animation. | is on the ne theory | |
| 2. Educ | ational outcom | nes (acquire | ed knowled | dge): | | | | | | |
| Acquisit as well | ion of basic kr as to possibilit | nowledge i ties and me | n the field ethods of t | of mathematical heir application. | (combinat | torial) games. Introductic | n to tools and techni | ques used in | this field, | |
| 3. Cours | se content/stru | icture: | | | | | | | | |
| 1. Introd Probabi Maker-E Part of t | Introduction concepts. Types of combinatorial games. Strategy. Game tree. Total min-max game tree search. Stealing the strategy. Probability approach. 2. Some combinatorial games. 3. Positional games. Definition. X and O. Pairing strategy. Strong and weak games. Maker-Breaker games. Basic concepts in the graph theory 5. Graphs games Part of the lectures consists of numerical simulation and possible writing of the term paper. | | | | | | | | | |
| 4. Teac | 4. Teaching methods: | | | | | | | | | |
| Lectures the sem Parts of points a points. examina | Lectures, Audio Practice and Consultations. During the Audio-Practice, the contents from the lectures are applied and exercised. During the semester, each student has to write the term paper worth 30% of the points. Parts of the course which represent a logical whole may be passed through two colloquiums. If the student wins at least 30% of possible points at each colloquium, it is considered that he passed the examination. At the examination the student may win up to 30% of the points. The course grade is formed based on the points won at the term paper, colloquiums and the knowledge demonstrated at the examination. | | | | | | d. During possible 0% of the ed at the | | | |
| | | | | Knowledge e | evaluation | (maximum 100 points) | | | | |
| Pre-examination obligation | | | tions | Mandatory | Points | Final ex | kam | Mandatory | Points | |
| Project | | | Yes 30.00 Cold | | Coloquium exam | loquium exam | | 20.00 | | |
| | | | Coloquium exam | | | No | | 20.00 | | |
| Practical part of the exam - tasks Yes | | | | | | 70.00 | | | | |
| | Literature | | | | | | | | | |
| Ord. | A | , withor | I Itie Publisher | | | er | Year | | | |
| 1, | Tatjana Grbid | | Skripta iz matematičke teorije igara | | | | 2011 | | | |
| 2, | D. Cvetković, | , S. Simić | nauke | | | | 1987 | | | |
| 3, | J. Beck | mn 1110- | Foundations of positional games | | | | 1996 | | | |
| 4, | R.K. Guy | inp, J.H.Co | Wi | Vay, Winning Ways Academic Press, London 1 | | | | | 1982 | |





Study Programme Accreditation

Engineering Animation

| Table 5.2 | Course s | pecification |
|-----------|----------|--------------|
|-----------|----------|--------------|

| Course: | | Study Research on Theoretical Background of the Master Thesis | | | | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------|--------------|---------------|-----------------------------------------------------------|------------|--------|--|--|--|
| Course id: IGASI0 | | Clarge Recearch on Theoretical Dackground of the Master Theoret | | | | | | | | |
| Number of ECTS: 7 | | | | | | | | | | |
| Teachers: | | | | | | | | | | |
| Course status: | | Mandato | ry | | | | | | | |
| Number of active teac | hing classe | es (weekly |) | | | | | | | |
| Lectures: | Practical | classes: | Other teachi | ng types: | Study research work: | Other clas | sses: | | | |
| 0 | (| C | 0 | 0 8 | | 0 | | | | |
| Precondition courses | | - | None | | | | | | | |
| 1. Educational goal: | | | | | | | | | | |
| Use of basic, theoretical and methodological, scientific, technical and professional knowledge and application of methods for solv specific problems in the selected areas. In this part of the master thesis, a student studies the problem, its structure and complexity a on the basis of performed analysis, he draws conclusions about possible ways to solve it. By studying literature, a student becom familiar with methods that are intended to solve similar tasks, using engineering practices in their solution. The aim of students' activi in this part of the research is to acquire the necessary experience in solving complex problems and tasks and recognize possibilities the application of the previously acquired knowledge into practice. | | | | | exity and ecomes activities ilities for | | | | | |
| 2. Educational outcom | ies (acquir | ed knowle | dge): | | | | | | | |
| Enabling students to independently apply previously acquired knowledge in different areas that were formerly studied, in order to review the structure of a given problem and its system analysis and for the purpose of drawing conclusions about possible directions regardin its resolution. Through the individual use of literature, students expand knowledge in selected areas and study various methods an papers relating to similar issues. In this way, the students develop ability to conduct analysis and identify problems within an assigne topic. By practical application of acquired knowledge in different areas, a student develops the ability to consider the place and role of a engineer in the selected area as well as the needto cooperate with other disciplines, developing team work | | | | | o review egarding lods and assigned ble of an | | | | | |
| 3. Course content/structure: | | | | | | | | | | |
| It is formed separately in accordance with the needs of a master thesis elaboration, its complexity and structure. A student examines the scientific literature and papers of graduate and master students that deal with similar topics, in order to perform specific task analysis for finding a solution which is defined by the task of the master thesis. Teaching is partially conducted through independent study research. Study includes active monitoring of the primary findings from this particular topic, organizing and conducting experiments, numerical simulations and statistical data processing, writing and / or presenting papers at conferences out of the specific scientific and teaching fields relating to issues of master thesis. | | | | | | | | | | |
| 4. Teaching methods: | | | | | | | | | | |
| A mentor of a master thesis assigns a task of the master thesis and submits it to the student. The student is required to develop a give topic defined by the task of master thesis, using literature proposed by the mentor. During the elaboration of a master thesis, a mentor may provide additional guidance to the student regarding literature and further instruct him how to make a high quality Master thesis During the study research, a student makes consultations with the mentor, and if necessary with other teachers who deal with issue related to theme of the thesis. Within the assigned topic, the student, if necessary, performs adequate measuring, testing, counting questionnaires and other research, statistical data processing, if it is foreseen by the task of the master thesis. | | | | | a given mentor thesis h issues counting, | | | | | |
| | | | Knowledge e | evaluation (m | naximum 100 points) | | | | | |
| Pre-examina | ition obliga | tions | Mandatory | Points | Final exam | Mandatory | Points | | | |
| Term paper | | | Yes | 50.00 Or | al part of the exam | Yes | 50.00 | | | |

Title

Author

Ord.

Year

Publisher



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

Study Programme Accreditation



MASTER ACADEMIC STUDIES

Engineering Animation

Course: Writing and Defence of the Master Thesis Course id: IGA0ZR Number of ECTS: 15 Teachers: Course status: Mandatory Number of active teaching classes (weekly) Lectures: Practical classes: Study research work: Other classes: Other teaching types: 0 0 0 0 10 Precondition courses None 1. Educational goal: The objective of writing and defending the Master thesis is that the student shows independent and creative approach in applying acquired practical and theoretical knowledge in the adequate field in the practice and in the field of computing and control engineering. Enabling students to study literature and scientific research. 2. Educational outcomes (acquired knowledge): By writing and defending the Master thesis, students who completed the studies should be competent to solve real problems in the practice as well as to continue education if they decide to. Graduated students acquire thorough knowledge and understanding of all disciplines of the chosen study group, as well as the ability to solve specific problems by using scientific methods and procedures. Graduated students are able to write and present their work results in an adequate manner. Graduated students of this level of studies have the competence to monitor and apply innovations in the profession, as well as to cooperate with local, social and international surrounding. 3. Course content/structure: Engineering Animation in technical disciplines, application in simulations and mechanical engineering, civil engineering, architecture, traffic... Application of animation in medicine. Making short animated movies 4. Teaching methods: A mentor chooses one of the given modules for writing and defence of the Master thesis (the same module as for theoretical background) in which the student will write the Master thesis and formulate the topic with the tasks for elaboration of the Master thesis. The candidate works independently on the given problem with consultations with the mentor. After the Master thesis is written and the mentor consent is given, the candidate defends the thesis in front of the Committee consisting of at least three members where at least one of them is from the different Faculty Knowledge evaluation (maximum 100 points) Pre-examination obligations Mandatory Points Final exam Mandatory Points Yes 50.00 Master thesis defence

Writing the master thesis

Yes

50.00



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Engineering Animation



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. The study programme of the master academic studies in Engineering Animation designed in this way is complete, comprehensive and offers students the latest scientific and professional knowledge in this field. The study programme is comparable and in accordance with the following universities:

1. Brown University 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 2. 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

3.California State University, Chico Link: http://graphics.ecst.csuchico.edu/



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Engineering Animation



Annexes:

FAX_14A_graphics.ecst.csuchico.edu.pdf FAX 14B graphics.ecst.csuchico.edu Program.html.pdf 4. 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 5. 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 6.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 7.Stanford University. Stanford, California Link: http://www-graphics.stanford.edu Annex: FAX 10 www-graphics.stanford.edu.pdf 8. University of Bristol, Computer Graphics Group, UK I ink[.] 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 in Serbia. We believe that the suggested Study programme in Engineering Animation is attractive, modern and needed in our society. Datum: 18.12.2012



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Engineering Animation





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

Study Programme Accreditation

Engineering Animation

Standard 07. Student Enrollment

MASTER ACADEMIC STUDIES

Each year a certain number of students are enrolled at the Faculty of Technical Sciences on the master academic studies of Engineering Animation, in accordance with social needs, faculty infrastructure resources and number of students approved in Accreditation process.

Number of students at the budget financing or self-financing is annually defined by special decision of Scientific Educational Council of the Faculty of Technical Sciences.

Persons who have completed required four-year studies may be enrolled to this study program, if they collected 240 ECTS points during studies. These conditions are defined by the Regulations of Student Enrollment to the Study Programmes.

Evaluation Committee on the master academic studies of Engineering Animation evaluates all passed activities of all candidates for enrollment and determines if they fulfill requirements for enrollment.

All candidates which fulfill requirements may enroll to master academic studies of Engineering Animation. Evaluation Committee determines if candidates which fulfill requirements had to take the Entrance Examination. If Evaluation Committee determined the Entrance Examination as a requirement, than candidates had to take Entrance Examination: Knowledge Exam in field of studies.

The selection of students and enrollment 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.

According the Regulations of Student Enrollment to the Study Programmes, Evaluation Committee can allow enrollment for students from other academic programs, if they collected minimum of 240 ECTS points during studies, but only if there are empty spaces available after all candidates which fulfilled enrollment requirements are enrolled (required basic four-year academic studies and Entrance Examination passed). Students from other academic programs as well as persons who have completed studies may be enrolled to this study program, if they pass Entrance Examination. In that case, Evaluation Committee evaluates all passed activities of each candidate and determines difference in activities for which candidate has to take examination. Summary of ECTS points for difference activities cannot exceed the number of 30 points.

According the Regulations of Student Enrollment to the Study Programmes, Evaluation Committee comprising of the head of the master academic studies of Engineering Animation and the heads of all departments involved in realization of the study programme, or the professors which the heads of departments selected.



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Engineering Animation



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 obtained 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 - Master.



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

Study Programme Accreditation

Engineering Animation



Standard 09. Teaching Staff

MASTER ACADEMIC STUDIES

For the realization of the study programme 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.



ion

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Engineering Animation

Science, arts and professional qualifications

| Nam | e and last n | ame: | | | Crnojević S. Vladimir | | | |
|---------------------------------------------------------------|----------------------------------------------------------|-------------------------------------|-------------------------|------------------------------|------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--|
| Acad | emic title: | | | | Associate Professor | | | |
| Name of the institution where the teacher works full time and | | | | | Faculty of Technical Sciences - Novi Sad | | | |
| starting date: | | | | | 10.11.1995 | | | |
| Scientific or art field: | | | | | Telecommun | Telecommunications and Signal Processing | | |
| Acad | emic caries | er | Year | Institution | | Field | | |
| Acad | emic title el | ection: | 2010 | | | | Telecommunications and Signal Processing | |
| PhD | thesis | | 2004 | Faculty of Technical Science | Ity of Technical Sciences - Novi Sad | | Telecommunications and Signal Processing | |
| Magi | ster thesis | | 1999 | Faculty of Technical Science | ences - Novi S | ad | Telecommunications and Signal Processing | |
| Bach | elor's thesis | 5 | 1995 | Faculty of Technical Sci | ences - Novi S | ad | Telecommunications and Signal Processing | |
| List c | of courses b | eing hel | ld by the tea | acher in the accredited stu | udy programme | s | | |
| | ID | Course | e name | | | Study pro | ogramme name, study type | |
| 1. | EK412 | Shape | Recognitio | n | | (BM0) Bio Studies | medical Engineering, Undergraduate Academic | |
| | | | | | | (F10) Eng Studies | ineering Animation, Undergraduate Academic | |
| 2. | EK421 | Digital | Image Pro | cessing | | (S01)Pos Undergrad | tal Traffic and Telecommunications, luate Academic Studies | |
| | | | | | | (E10) Pow Engineerin | er, Electronic and Telecommunication Ig, Undergraduate Academic Studies | |
| 3. | URZP32 | System | ns for Deteo | ction, Alarm and Warning | | (ZP0) Disa Undergrad | aster Risk Management and Fire Safety, luate Academic Studies | |
| 4. | BM129A | Digital | Image Pro | cessing | | (BM0) Bio Studies | medical Engineering, Undergraduate Academic | |
| 5. | E137 | Basics of Telecommunications | | | | (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies | | |
| 6. | EK463 | Pattern Recognition | | | | (E10) Pow Engineerin | er, Electronic and Telecommunication g, Undergraduate Academic Studies | |
| 7. | DE311S | Select | ed topics in | Pattern Recognition | | (E11) Pow Engineerin | ver, Electronic and Telecommunication g, Specialised Academic Studies | |
| 8. | DE412S | Digital | image proc | essing algorithms | | (E11) Pow Engineerin | ver, Electronic and Telecommunication g, Specialised Academic Studies | |
| 9. | DE511S | Wireless sensor networks | | | | (E11) Pow Engineerin | ver, Electronic and Telecommunication g, Specialised Academic Studies | |
| 10. | EK520 | Medical Image Processing | | | | (E10) Pow Engineerin | er, Electronic and Telecommunication g, Master Academic Studies | |
| | | | | | | (F20) Eng | ineering Animation, Master Academic Studies | |
| 11. | EK522 | Compu | uter Vision (| Digital Image Processing | 2) | (E10) Pow Engineerin | er, Electronic and Telecommunication g, Master Academic Studies | |
| 12. | H1420 | Funda | mentals in I | Mechanical Vision | | (H00) Med | chatronics, Master Academic Studies | |
| 13. | IMDS54 | Compu | uter Vision i | n Industrial Engineering a | ind | (112) Indu (122) Enai | strial Engineering, Specialised Academic Studies neering Management, Specialised Academic | |
| | | Management | | | | Studies | | |
| 14. | ZP508 | Desigr | n and Maint | enance of the Fire Detecti | ion Systems | (ZP1) Disa Academic | aster Risk Management and Fire Safety, Master Studies | |
| 15. | DE311 | Select | ed Chapters | s in Pattern Recognition | | (E10) Pow Engineerin | ver, Electronic and Telecommunication g, Doctoral Academic Studies | |
| 16 | | Digital | Imaga Dra | accessing Algorithms | | (E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies | | |
| 10. | UE412 | Digital Image Processing Algorithms | | | (OM1) Ma Studies | thematics in Engineering, Doctoral Academic | | |
| 17. | DE511 | Wirele | ss Sensor I | Networks | | (E10) Pow Engineerin | ver, Electronic and Telecommunication Ig, Doctoral Academic Studies | |
| 18. | IMDR54 | Compu Manag | uter Vision i jement | n Industrial Engineering a | ind | (I20) Indu Doctoral A | strial Engineering / Engineering Management, cademic Studies | |
| Rer | Representative refferences (minimum 5, not more than 10) | | | | | | | |

| UNIVERSITY OF | F NOVI SAD |
|---------------|------------|
|---------------|------------|



Study Programme Accreditation



MASTER ACADEMIC STUDIES

Engineering Animation

| Rep | 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. | | | | | | |
| Sur | Summary data for teacher's scientific or art and professional activity: | | | | | | |
| Quot | ation total : | 135 | | | | | |
| Tota | of SCI(SSCI) list papers : | 10 | | | | | |
| Curre | ent projects : | Domestic : | 3 | International : | 10 | | |



Study Programme Accreditation

Engineering Animation

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 | | | | | Faculty of Technical Sciences - Novi Sad | | | |
| starting date: | | | | | 16.10.2000 | | | |
| Scientific or art field: | | | | | Applied Computer Science and Informatics | | | |
| Acad | lemic cariee | er | Year | Institution | | | Field | |
| Acad | lemic title el | ection: | 2012 | | | | Applied Computer Science and Informatics | |
| PhD | thesis | | 2012 | Faculty of Technical Sciences - Novi Sad | | | Computer Science | |
| Magi | ster thesis | | 2008 | Faculty of Technical Sci | ences - Novi Sa | ad | Computer Science | |
| Bach | elor's thesis | 5 | 2000 | Faculty of Technical Sci | ences - Novi Sa | ad | Applied Computer Science and Informatics | |
| List c | of courses b | eing he | ld by the tea | acher in the accredited stu | udy programme | s | | |
| | ID | Course | e name | | | Study pro | gramme name, study type | |
| | | | | | | (E20) Con Academic | nputing and Control Engineering, Undergraduate Studies | |
| 1. | E235 | Funda Engine | mentals of l ering | Information Systems and | Software | (F10) Eng Studies | ineering Animation, Undergraduate Academic | |
| | | | | | | (MR0) Me Undergrad | asurement and Control Engineering, uate Academic Studies | |
| 2 | E2S40 | Softwa | are Patterns | | | (E20) Computing and Control Engineering, Undergraduate Academic Studies | | |
| ۷. | L2040 | Oonwe | | and components | | (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 | Upravl | janje projek | tima | | (SII) Softw Undergrad | vare and Information Technologies (Inđija), uate Professional Studies | |
| 5. | ISIT27 | Osnov | e softverski | h arhitektura | | (SII) Softw Undergrad | vare and Information Technologies (Inđija), uate Professional Studies | |
| 6. | ISIT36 | Softwa | are Develop | ment Tools | | (SII) Softw Undergrad | vare and Information Technologies (Inđija), uate Professional Studies | |
| 7. | ISIT3A | Metod | ologije i sist | emi za upravljanje IT resu | ursima | (SII) Softw Undergrad | vare and Information Technologies (Inđija), uate Professional Studies | |
| 8. | ISIT48 | Tehno | logije i siste | emi za podršku korisnicima | a | (SII) Softw Undergrad | vare and Information Technologies (Inđija), uate Professional Studies | |
| 0 | 858202 | Madel Driver Coffiger Devices | | | | (SE0) Sof Undergrad | tware Engineering and Information Technologies, uate Academic Studies | |
| 5. | 9. SES202 Model Driven So | | | ware Development | | (SEL) Sof Loznica, U | tware Engineering and Information Technologies - ndergraduate Academic Studies | |
| 10 | SES204 | Advanced Dragramming Tachica | | (SE0) So Undergra | | tware Engineering and Information Technologies, uate Academic Studies | | |
| 10. | 020204 | Auvan | | | | (SEL) Soft Loznica, U | tware Engineering and Information Technologies - ndergraduate Academic Studies | |
| 11 | SES40 | Softwa | Software patterns and companents | | | (SE0) Sof Undergrad | SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies | |
| | 52040 | 20100 | | | | (SEL) Soft Loznica, U | tware Engineering and Information Technologies - ndergraduate Academic Studies | |
| | | | | | | (E20) Computing and Control Engineering, Master Academic Studies | | |
| | | | - | | | (F20) Engineering Animation, Master Academic Studies | | |
| 12. | E2510 | E2510 Softwa | | oftware Configuration Management | | (SE0) Software Engineering and Information Technologies, Master Academic Studies | | |
| | | | | | | (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies | | |



ID

E2519

DRNI12

13.

14.

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

MASTER ACADEMIC STUDIES

Course name



Representative refferences (minimum 5, not more than 10)

Methods

Domain-Specific Languages

| 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 |
| Su | mmary data for teacher's scientific or art and professional activity: |
| Quo | tation total : 0 |

0

0

Domestic :

Total of SCI(SSCI) list papers :

Current projects :

0

International :




Study Programme Accreditation

Engineering Animation

| Nam | Name and last name: Delić D | | | Delić D. Vlado | D. Vlado | | | | |
|--------|----------------------------------|---------------------------------|---------------|-----------------------------|-----------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Acad | lemic title: | | | | Associate Pro | ofessor | | | |
| Nam | e of the inst | itution w | vhere the te | acher works full time and | Faculty of Tee | Technical Sciences - Novi Sad | | | |
| starti | ng date: | | | | 01.09.1989 | | | | |
| Scier | Scientific or art field: Telecon | | | | | cations and | Signal Processing | | |
| Acad | lemic cariee | er | Year | Institution | | | Field | | |
| Acad | lemic title el | ection: | 2008 | Faculty of Technical Sci | ences - Novi Sa | ad Telecommunications and Signal Processing | | | |
| PhD | thesis | | 1997 | Faculty of Technical Sci | ences - Novi Sa | ad | Telecommunications and Signal Processing | | |
| Magi | ster thesis | | 1993 | School of Electrical Engi | ineering - Beog | Irad | Telecommunications and Signal Processing | | |
| Bach | elor's thesis | S | 1989 | Faculty of Technical Sci | ences - Novi Sa | ad | Telecommunications and Signal Processing | | |
| List o | of courses b | eing he | ld by the tea | acher in the accredited stu | udy programme | s | | | |
| | ID | Course | e name | | | Study pro | gramme name, study type | | |
| 1. | EK411 | Digital | Filters | | | (E10) Pow Engineerin | er, Electronic and Telecommunication g, Undergraduate Academic Studies | | |
| 2. | Z413A | Acoust | tics and Noi | ise Protection | | (Z20) Envi Studies | ronmental Engineering, Undergraduate Academic | | |
| 3. | BM118B | Acoust | tics and Aud | dio Engineering in Medicir | ne | (BM0) Bio Studies | medical Engineering, Undergraduate Academic | | |
| 4. | EK312 | Acoust | tics and Aud | dio Engineering | | (E10) Pow Engineerin | er, Electronic and Telecommunication g, Undergraduate Academic Studies | | |
| 5. | EK312L | Acoust | tics and Aud | dio Engineering in Multime | edia | (F10) Eng Studies | ineering Animation, Undergraduate Academic | | |
| 6. | EK422 | Digital | Audio Sign | al Processing | | (E10) Pow Engineerin | 10) Power, Electronic and Telecommunication igineering, Undergraduate Academic Studies | | |
| 7. | EK451 | Audio and Video Technologies | | | | (E10) Pow Engineerin | er, Electronic and Telecommunication g, Undergraduate Academic Studies | | |
| 8. | EK452 | Monitoring and Noise Protection | | | | (E10) Pow Engineerin | er, Electronic and Telecommunication g, Undergraduate Academic Studies | | |
| 9. | ETI27 | Audio Engineering | | | | (E02) Elect Profession | ctronics and Telecommunications, Undergraduate al Studies | | |
| 10. | ETI29 | Monito | ring and No | pise Protection | | (E02) Elect Profession | ctronics and Telecommunications, Undergraduate al Studies | | |
| 11. | ETI35 | Digital | Sound Pro | cessing | | (E02) Electronics and Telecommunications, Undergraduate Professional Studies | | | |
| 12. | DE111S | Algorit | hms for Dig | ital Signal Processing | | (E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies | | | |
| 13. | DE212S | Select | ed Chapters | s in Acoustics and Audio I | Engineering | (E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies | | | |
| 14. | DE512S | Humar | n-Machine S | Speech Communication | | (E11) Pow Engineerin | er, Electronic and Telecommunication g, Specialised Academic Studies | | |
| 15. | S0151 | Applica Teleco | ation of Digi | ital Signal Processing in | | (S01) Pos Academic | tal Traffic and Telecommunications, Master Studies | | |
| 16. | SI037 | Teleco | ommunicatio | on Infrastructure of E-Busi | ness | (E00) Pow Engineerin | er, Electronic and Telecommunication g, Specialised Professional Studies | | |
| 17. | BMIM2A | Assisti | ve Informat | ion and Communications | Technologies | (BM0) Bio | medical Engineering, Master Academic Studies | | |
| 18. | EK422L | Digital | Audio Sign | al Processing | | (F20) Eng | ineering Animation, Master Academic Studies | | |
| 19. | EK550 | Speec | h Technolog | gies | | (E10) Pow Engineerin | er, Electronic and Telecommunication g, Master Academic Studies | | |
| 20. | S1596 | Acoust | tics and Aud | dio Engineering in Traffic | | (S01) Pos Academic | tal Traffic and Telecommunications, Master Studies | | |
| 21. | DE111 | Algorit | hms for Dig | ital Signal Processing | | (E10) Pow Engineerin (H00) Meo (OM1) Ma Studies | ver, Electronic and Telecommunication g, Doctoral Academic Studies chatronics, Doctoral Academic Studies thematics in Engineering, Doctoral Academic | | |
| 22. | DE212 | Select | ed Chapters | s in Acoustics and Audio E | Engineering | (E10) Pow Engineerin | ver, Electronic and Telecommunication g, Doctoral Academic Studies | | |

| HSITAS STUD | | | UNIVERSITY OF NO | /I SAD | | HUNHKHX HAL | | |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|--|--|
| NN | | FACULTY OF TECHNICAL SC | IENCES 21000 NOVI S | SAD, TRG DOSIT | EJA OBRADOVIĆA 6 | | | |
| 23 | | Study F | Programme A | ccreditatio | n | 1 3 | | |
| ·01 | LANTENS | MASTER ACADEMIC STUDIES | | | Engineering Animation | HOP. | | |
| List o | of courses b | eing held by the teacher in the accred | dited study programme | s | | | | |
| | ID Course name | | | Study program | | | | |
| 23. | DE512 | Human-Machine Speech Communio | cation | (E10) Power, El Engineering, Do | ectronic and Telecommunic ctoral Academic Studies | cation | | |
| Rep | oresentative | refferences (minimum 5, not more th | ian 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 Jakovljev Number 3 | Split-and-Merge Algorithm for Hierarc ić, M. Gnjatović, M. Sečujski, V. Delić 3, Page 377-389, (2012) DOI: 10.100 | chical Clustering of Ga ; Applied Intelligence, 7/s10489-011-0333-9 | ussian Mixture Mo Springer-Verlag N | odels", B. Popović, M. Jane N. York, Inc., ISSN 0924-66 | v, D. Pekar, N. 9X, Volume 37, | | |
| 5. | "Automat Monograf institut, B | ska konverzija tekstualnih informacija ska serija ISSN 1820-3418, Naučnot eograd, 2011, 56 strana | u govor", M. Sečujski, ehničke informacije, IS | V. Delić; - kumul BN 978-86-81123 | ativna naučnotehnička infoi 3-25-6, Vol. XLVI, No. 4, Vo | macija - jnotehnički | | |
| 6. | "Stereo P COST 21 Interfaces Heidelber | resentation and Binaural Localization 02 International Training School, Dub s: Active Listening and Synchrony, Le g, ISBN 978-3-642-12396-2, LNCS 5 | n in a Memory Game fo blin, Ireland, 23 27.03.2 octure Notes in Artificial 5967, ISSN: 0302-9743 | r the Visually Imp 009, Revised Sel Intelligence, LNA , April 2010, pp. 3 | aired", V. Delić, N. Vujnovid lected Papers in Developme Al; A. Esposito et al. (Eds.) 354-363, DOI: 10.1007/978 | ć Sedlar; 2nd ent of Multimodal , Springer, -3-642-12397-9 | | |
| 7. | "Efficient Engineeri | ECG Modeling using Polynomial Fun ng, ISSN 1392-1215, No. 4(110), Ap | ctions", S. Jokić, V. De ril of 2011, pp. 121-124 | lić, Z. Perić, S. K | rčo, D. Sakač; Electronics a | and Electrical | | |
| 8. | "Pattern E 27. June Addendu | Evaluation Tests of Software-Based A - 1 July, Aalborg, Denmark, Europea m, Vol. 97, No. 3, May/June 2011, IS | Acoustic Measuring Sys n Acoustic Asociation, BN: 978-84-694-1520- | stems", M. Stojiljk pp. 391 396, (Acta 7, ISSN 1610-192 | ović, V. Delić; 6th Forum Ad a Acustica United with Acus 28, European Acoustic Asoc | custicum 2011, stica – ciation | | |
| 9. | "Zbirka za | adataka iz digitalnih telekomunikacija | ", V. Milošević, V. Delić | , FTN&Stylos, 19 | 96, p.189 i FTN, 2005, p.28 | 32 | | |
| 10. | "Zbirka za | adataka iz digitalne obrade signala", V | /. Delić, M. Sečujski, I. | Radić, FTN, 200 | 7, str. 176, (ISBN 978-86-7 | 892-082-0) | | |
| Sur | nmary data | for teacher's scientific or art and prof | essional activity: | | | | | |
| Quot | ation total : | | 52 | | | | | |
| Tota | of SCI(SSC | CI) list papers : | 14 | | | | | |
| Curre | ent projects | : | Domestic : | 4 | International : | 0 | | |



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

Study Programme Accreditation



MASTER ACADEMIC STUDIES

Engineering Animation

| Nam | e and last n | ame: | | | lvetić V. Dragan | | | | |
|----------|------------------|--------------|---------------|-----------------------------|------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--|--|
| Acad | lemic title: | | | | Full Professor | | | | |
| Nam | e of the inst | titution v | vhere the te | acher works full time and | Faculty of Te | chnical Scie | ences - Novi Sad | | |
| starti | ng date: | | | | 22.10.1990 | | | | |
| Scier | ntific or art f | ield: | X | 1 00 0 | Applied Computer Science and Informatics | | | | |
| Acad | lemic caries | er | Year | | | Field | | | |
| Acad | lemic title el | lection: | 2010 | Faculty of Technical Sci | ences - Novi Sa | ad | Applied Computer Science and Informatics | | |
| PhD | thesis | | 1999 | Faculty of Technical Sci | ences - Novi S | ad | Applied Computer Science and Informatics | | |
| Magi | ster thesis | | 1994 | Faculty of Technical Sci | ences - Novi S | ad | Applied Computer Science and Informatics | | |
| Bach | | S | 1990 | Faculty of Technical Sci | ences - Novi Sa | ad | Applied Computer Science and informatics | | |
| LIST | of courses b | eing ne | Id by the tea | acher in the accredited sti | ldy programme | es I | | | |
| | ID | Course | e name | | | Study pro | ogramme name, study type | | |
| | | | | | | (E20) Con Academic | nputing and Control Engineering, Undergraduate Studies | | |
| 1. | E243 | Humar | n Computer | Interaction | | (SE0) Sof Undergrad | tware Engineering and Information Technologies, luate Academic Studies | | |
| | | | | | | (SEL) Sof Loznica, U | tware Engineering and Information Technologies - Indergraduate Academic Studies | | |
| | | | | | | (F10) Eng Studies | ineering Animation, Undergraduate Academic | | |
| 2. | H207 | Progra | imming and | Programming Languages | S | (H00) Med | chatronics, Undergraduate Academic Studies | | |
| | | | | | | (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies | | | |
| | | | | | | (E20) Computing and Control Engineering, Undergraduate Academic Studies | | | |
| | | | | | | (ES0) Power Software Engineering, Undergraduate Academic Studies | | | |
| 3. | RI4A | Compu | uter Graphie | cs | | (F10) Eng Studies | (F10) Engineering Animation, Undergraduate Academic Studies | | |
| | | | | | | (SE0) Sof Undergrad | tware Engineering and Information Technologies, luate Academic Studies | | |
| | | | | | | (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies | | | |
| 4 | E0243 | Huma | Computor | Interaction | | (ES0) Pov Academic | ver Software Engineering, Undergraduate Studies | | |
| 4. | L0243 | Turnai | | meracion | | (F10) Eng Studies | ineering Animation, Undergraduate Academic | | |
| | | | | | | (E20) Con Academic | nputing and Control Engineering, Master Studies | | |
| 5. | E2505 | Multim | edia Syster | ns | | (ES0) Pov Studies | ver Software Engineering, Master Academic | | |
| | | | | | | (F20) Eng | ineering Animation, Master Academic Studies | | |
| | | | | | | (SE0) Sof Master Aca | tware Engineering and Information Technologies, ademic Studies | | |
| e | EDE16 | Virtual | Poplity Su | tems | | (E20) Con Academic | nputing and Control Engineering, Master Studies | | |
| 0. | E2010 | viitual | | | | (SE0) Sof Master Aca | tware Engineering and Information Technologies, ademic Studies | | |
| 7 | E2529 | Come | iter damo o | evelonment | | (E20) Con Academic | nputing and Control Engineering, Master Studies | | |
| /. | L2320 | Compt | | evelopment | | (SE0) Sof Master Aca | tware Engineering and Information Technologies, ademic Studies | | |
| Q | E2524 | Dete Oceanie | | | | (E20) Con Academic | nputing and Control Engineering, Master Studies | | |
| 0. 22004 | Data Compression | | | | (SE0) Sof Master Aca | tware Engineering and Information Technologies, ademic Studies | | | |

FAI

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

| List c | of courses I | being held | by the tead | cher in the | accredited | study programme | s |
|--------|--------------|------------|-------------|-------------|------------|-----------------|---|
| | | | | | | | |

| | ID | Course name | | Study programme name, study type | | | | |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------|--|--|--|
| 9. | ESI035 | Computer graphic algorithms for sm | art grid systems | (ES0) Power Software Engineer Studies | ing, Master Academic | | | |
| 10. | ESI036 | Visualization techniques in power sy | stems | (ES0) Power Software Engineer Studies | ing, Master Academic | | | |
| 11. | DRNI09 | Selected Topics in Human Centered | Computing | (E20) Computing and Control Er Academic Studies | igineering, Doctoral | | | |
| | | | | (F20) Engineering Animation, Doctoral Academic Studies | | | | |
| 12. | FDS151 | Selected Chapters in Multimedia | | (F00) Graphic Engineering and I Studies | Design, Doctoral Academic | | | |
| 13. | FDS152 | Selected Topics in Computer Graph | ics | (F00) Graphic Engineering and I Studies | Design, Doctoral Academic | | | |
| 14. | DRNI15 | Selected Topics in Advanced Comp | uter Graphics | (E20) Computing and Control Er Academic Studies | igineering, Doctoral | | | |
| | | | | (F20) Engineering Animation, Do | octoral Academic Studies | | | |
| 15. | DRNI18 | (E20) Computing and Control Engineering, Doctoral Selected Topics in Distributed/Mobile computing Academic Studies | | | | | | |
| | (F20) Engineering Animation, Doctoral Academic Studies | | | | | | | |
| Rep | Representative refferences (minimum 5, not more than 10) | | | | | | | |
| 1. | 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. | 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 Iv Engineer | vetic, Srdjan Mihic, Branko Markoski, ing, Elsevier, Vol. 36, No. 1, pp. 169-1 | "Augmented AVI video 179, ISSN 0045-7906, | file for road surveying", Compute anuary 2010. | rs and Electrical | | | |
| 4. | Dinu Dra and Infor | gan, Dragan Ivetic, "Architectures of E mation Systems Journal (ComSIS), vo | DICOM based PACS fool. 6(1), ISSN: 1820-0 | JPEG2000 Medical Image Strea 14, pp. 185-203, ComSIS Conso | aming", Computer Science ortium, Serbia, June 2009. | | | |
| 5. | Dragan Iv Assimako | vetic, Dusan Malbaski, "A dichotomou opoulos, Ed., Cambridge International | s software life-cycle m Science Publishing, C | del", Journal of Applied Systems ambridge, England, vol. 2, No. 2, | Studies, Nikitas. A. 2001 | | | |
| 6. | Dinu Dra Journal, S Publisher | gan, Dragan Iveti, "A Comprehensive Special Issue on ICIT 2009 Conferenc r, July 2009. | Quality Evaluation System - Bioinformatics and | em for PACS", Ubiquitous Comp mage, Vol. 4(3), ISSN: 1992-842 | uting and Communication 24, pp. 642-650, UBICC | | | |
| 7. | Veljko Pe of educat 8424, pp | etrovic, Dragan Ivetic, "Education and tion policy", Ubiquitous Computing and . 43-51, UBICC Publisher, 2011. | out of the box thinking d Communications Jou | linearization of Graham's scan nal, Special Issue on ICIT 2011 (| algorithm complexity as fruit conference, ISSN: 1992- | | | |
| 8. | Dusan M Operatio | albaski, Dragan Ivetic, "Some notes o ns Research, vol. 6, no. 2, 1996., 277 | n the formal definition -284. | f streams", Byron Papathanassic | ou, Ed., Yugoslav Journal of | | | |
| 9. | lvetic Dra No. 5, pp | agan, Dinu Dragan, "JPEG2000 Aims . 1-13, ISSN 1110-2586, Sept. 2009. | To Make Medical Imaç | e Ubiquitous", Egyptian Compute | r Science Journal, Vol. 31, | | | |
| 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 | | | | | | | |
| Sur | nmary data | for teacher's scientific or art and profe | essional activity: | | | | | |
| Quot | ation total : | | 55 | | | | | |
| Tota | of SCI(SS | CI) list papers : | 4 | i | | | | |
| Curre | Current projects : Domestic : 2 International : 0 | | | | | | | |



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

Study Programme Accreditation



Engineering Animation

| Name and last name: | | | Janev B. Jelena | | | | | | |
|---------------------|-------------------------------------------------|---------------------------------------------------|------------------------------------|----------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--|--|
| Acad | emic title: | | | | Assistant Professor | | | | |
| Nam | e of the inst | titution w | vhere the te | acher works full time and | Faculty of Te | chnical Scie | nces - Novi Sad | | |
| starti | ng date: | | | | 01.03.2012 | | | | |
| Scier | ntific or art f | ield: | | | Art Applied to Architecture, Technics and Design | | | | |
| Acad | emic caries | er | Year | Institution | Field | | | | |
| Acad | emic title e | lection: | 2012 | Faculty of Technical Sci | ences - Novi S | ces - Novi Sad Art Applied to Architecture, Technics and Design | | | |
| Magi | ster thesis | | 2004 | Academy of Arts - Novi | Sad | | Sculpting | | |
| Bach | elor's thesis | S | 1998 | Academy of Arts - Novi | Sad | | Sculpting | | |
| List c | of courses b | eing he | ld by the tea | acher in the accredited stu | udy programme | S | | | |
| | ID Course name | | | | Study pro | gramme name, study type | | | |
| 1. | IA008 | Drawir | ng for Anima | ation and Visual Effects | | (F10) Eng Studies | ineering Animation, Undergraduate Academic | | |
| 2. | IA012 | Storyb | oard | | | (F10) Eng Studies | ineering Animation, Undergraduate Academic | | |
| 3. | IGA002 | Free H | land Drawir | g | | (F10) Eng Studies | ineering Animation, Undergraduate Academic | | |
| 4. | IGA013 | Charao | cter Animat | on | | (F10) Eng Studies | ineering Animation, Undergraduate Academic | | |
| 5. | ASI17B | Sculpt | ure and Art | of Installation | | (AS0) Sce Undergrad | nic Architecture, Technique and Design, uate Academic Studies | | |
| 6. | ASO25 | Scene | Technique | 3 | | (AS0) Sce Undergrad | enic Architecture, Technique and Design, Juate Academic Studies | | |
| 7. | ASO30 | Scene Technique 4 | | | | (AS0) Sce Undergrad | nic Architecture, Technique and Design, uate Academic Studies | | |
| 8. | ASO41 | Artistic and curatorial practices of scene design | | | sign | (AS0) Sce Undergrad | nic Architecture, Technique and Design, uate Academic Studies | | |
| 9. | IA004 | Classical Animation | | | | (F10) Eng Studies | ineering Animation, Undergraduate Academic | | |
| 10. | IA021 | Eleme | nts of Artist | ic Expression | | (F20) Eng | ineering Animation, Master Academic Studies | | |
| 11. | IA005 | History | / of Animati | on | | (F20) Eng | ineering Animation, Master Academic Studies | | |
| 12 | SD01 | Scenic | henomen | a in contemporary arts | | (A00) Arch | nitecture, Doctoral Academic Studies | | |
| 12. | 0001 | | phenomen | | | (AS0) Sce | nic Design, Doctoral Academic Studies | | |
| 13. | SDO7 | Artistic | practice of | scene design | | (AS0) Scenic Design, Doctoral Academic Studies | | | |
| Rep | presentative | e refferei | nces (minim | num 5, not more than 10) | | | | | |
| 1. | Magistars redovnog | ski rad n i profeso | a temu 'Do ora Ljubomi | dir', na Akademiji umetno: ra Denkovića, 2004 | sti u Novom Sa | idu na likovr | nom odseku, smer vajarstvo, pod mentorstvom | | |
| 2. | MoNGeo | metrija 2 | 2012, "Prac | tice in Applying Fine Arts | Subjects at Co | mputer Grap | ohic - Engineering Animation Studies" | | |
| 3. | žirirana iz Mexico, l | zložba 2 J.S.A. | 007.Izložba | skulptura u gvožđu 'Iron | Tribe', New Me | exico Highla | nds University, Burris Hall, Las Vegas, New | | |
| 4. | žirirana iz 2003.7. n | zložba neđunar | odni bijenal | e umetnosti minijature, Ku | ulturni centar – | Moderna ga | alerija, Gornji Milanovac | | |
| 5. | žirirana iz 2002.Ukr | zložba štanja – | 10. bijenal | e vizuelnih umetnosti, gale | erija "Dvorište" | Pančevo | | | |
| 6. | žirirana iz 1999.lzlo | zložba žba kan | didata pred | loženih za članove SULU | V-a, Galerija S | ULUV-a, No | ovi Sad | | |
| 7. | žirirana iz 1999.Pro | zložba lećna iz | ložba u Um | etničkom paviljonu "Cvijet | ta Zuzorić" | | | | |
| 8. | žirirana iz nagrada 1997.26. | zložba Oktobar Novosa | skog salona dski salon, | a grada Novog Sada za sł Velika galerija Radničkog | kulpturu univerziteta, N | lovi Sad | | | |
| 9. | samostal 2003. Izlo fasade zo Novi sad | na izložl ožba crte grada u | ba eža "Prvo sl Jevrejskoj 1 | koči pa reci hop" u okviru 0 - 12, na uglu Miletićeve | projekta "Istrag i Trifkovićevog | ja" Muzeja s j trga, na ug | savremene likovne umetnosti u Novom Sadu, lu Pašićeve i Zlatnih greda, u Žarka Vasiljevića 6, | | |
| 10. | samostal 2002. Izlo | na izložl ožba sku | ba Jptura "Doc | lir", Muzej savremene liko | ovne umetnosti, | Novi Sad | | | |



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

Study Programme Accreditation

Engineering Animation



MASTER ACADEMIC STUDIES

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



Study Programme Accreditation



MASTER ACADEMIC STUDIES

Engineering Animation

| Nam | Name and last name: | | | Lukić J. Tibor | | | | |
|--------|---------------------|------------|---------------|-----------------------------|----------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|
| Acad | lemic title: | | | | Assistant Pro | fessor | | |
| Nam | e of the inst | titution v | vhere the te | acher works full time and | Faculty of Te | chnical Scie | nces - Novi Sad | |
| starti | ng date: | | | | 01.07.2012 | | | |
| Scier | ntific or art f | ield: | | | Mathematics | | | |
| Acad | lemic cariee | er | Year | Institution | | | Field | |
| Acad | lemic title el | lection: | 2012 | Faculty of Technical Sci | ences - Novi S | ad | Mathematics | |
| PhD | thesis | | 2011 | Faculty of Technical Sci | ences - Novi S | ad | Mathematics | |
| Magi | ster thesis | | 2004 | Faculty of Sciences - No | ovi Sad | | Mathematical Sciences | |
| Bach | elor's thesis | S | 1998 | Faculty of Sciences - No | ovi Sad | | Mathematical Sciences | |
| List o | of courses b | eing he | ld by the tea | acher in the accredited stu | udy programme | s | | |
| | ID | Course | e name | | | Study pro | gramme name, study type | |
| | | | | | | (E20) Con Academic | nputing and Control Engineering, Undergraduate Studies | |
| 1. | E212 | Mathe | matical Ana | Ilysis 1 | | (SE0) Sof Undergrad | tware Engineering and Information Technologies, uate Academic Studies | |
| | | | | | | (SEL) Sof Loznica, U | tware Engineering and Information Technologies - ndergraduate Academic Studies | |
| | | | | | | (E20) Con Academic | nputing and Control Engineering, Undergraduate Studies | |
| | | Discro | to Mathoma | atics and Linear Algebra | | (MR0) Measurement and Control Engineering, Undergraduate Academic Studies | | |
| ۷. | E213 | | | | | (SE0) Sofi Undergrad | tware Engineering and Information Technologies, uate Academic Studies | |
| | | | | | | (SEL) Sofi Loznica, U | tware Engineering and Information Technologies - ndergraduate Academic Studies | |
| 2 | E221A | Matha | motioal Ana | | | (E20) Con Academic | nputing and Control Engineering, Undergraduate Studies | |
| 5. | E22TA | Maule | matical Ana | IIYSIS Z | | (MR0) Measurement and Control Engineering, Undergraduate Academic Studies | | |
| 4. | IAM004 | Geom | etry of Disc | rete Space | | (F10) Engineering Animation, Undergraduate Academic Studies | | |
| | | | | | | (M20) Mee Undergrad | chanization and Construction Engineering, uate Academic Studies | |
| 5 | M106 | Matho | matics 2 | | | (M30) Ene Academic | ergy and Process Engineering, Undergraduate Studies | |
| 5. | WITOO | Maule | matics 2 | | | (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies | | |
| | | | | | | (P00)Proo Studies | duction Engineering, Undergraduate Academic | |
| 6 | M4201 | Mathe | matics 3 | | | (M30) Ene Academic | ergy and Process Engineering, Undergraduate Studies | |
| | .017201 | mane | | | | (M40) Tec Undergrad | chnical Mechanics and Technical Design, uate Academic Studies | |
| 7. | M4202 | Applie | d Mathema | tical Analysis | | (M40) Tec Undergrad | chnical Mechanics and Technical Design, uate Academic Studies | |
| | | | | | (Z01) Safe | ety at Work, Undergraduate Academic Studies | | |
| | | | | | | (ZC0) Clea Academic | an Energy Technologies, Undergraduate Studies | |
| 8. | Z104 | Mathe | matics 1 | | | (ZP0) Disa Undergrad | aster Risk Management and Fire Safety, uate Academic Studies | |
| | | | | | | (Z20) Envi Studies | ronmental Engineering, Undergraduate Academic | |



9

10.

11.

12.

13.

Z106

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Matematika 2(uneti naziv na engleskom)

Engineering Animation

(Z20) Environmental Engineering, Undergraduate Academic



| 13. | 2100 | Studies | | | | | | |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------|-----------------------------------|---------------|--|--|
| 14. | 0ML503 | Combinatorics and Graph Theory | | (OM1) Mathema Studies | atics in Engineering, Master | Academic | | |
| 15. | 0ML507 | Logic in computer science | | (OM1) Mathematics in Engineering, Master Academic Studies | | | | |
| 16. | IA022 | Numerical Optimization | | (F20) Engineeri | ng Animation, Master Acade | emic Studies | | |
| Rep | oresentative | refferences (minimum 5, not more th | an 10) | | | | | |
| 1. | 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 L Springer- | ndblad, Nata sa Sladoje, and Tibor L Verlag, Volume 4245,of Lecture Note | ukic, Feature Based D s in Computer Science | efuzzication in Z2 e, pp. 378-389, 20 | and Z3 Using a Scale Space 06. | e Approach, | | |
| 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 zanin 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 sa 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. | 5. Tibor Lukic and Neboj sa 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 Luk ing Base IOP Publ | ic, Joakim Lindblad, and Natasa Slad d on Spectral Gradient Optimization, I ishing, 2011. | oje, Regularized Imag nverse Problems, Vol. | e Denois- 27:085010, | | | | |
| 8. | Lukić T.: in Compu | Energy-minimization based Discrete ⁻ Iter Science, LNCS, 2012 | Fomography Reconstru | uction Method for | Images on Triangular Grid, | Lecture Notes | | |
| 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. | | | | | | | |
| Sun | nmary data | for teacher's scientific or art and profe | essional activity: | | | | | |
| Quot | ation total : | | 0 | | | | | |
| Total | of SCI(SS | CI) list papers : | 8 | | | | | |
| Curre | ent projects | : | Domestic : | 2 | International : | 0 | | |



mation

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Engineering Animation

| Nam | e and last n | ame: | | | Mihajlović R. Dragan | | | | |
|--------|---------------|----------------------------------------------|-----------------------------------|-----------------------------|----------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|--|
| Acad | lemic title: | | | | Associate Professor | | | | |
| Nam | e of the inst | titution v | vhere the te | acher works full time and | Faculty of Tee | chnical Scie | nces - Novi Sad | | |
| Starti | ng date: | iold | | | 24.09.1990 | utor Colona | as and Information | | |
| Acad | | ieiu. | Vear | Institution | Applied Comp | | | | |
| Acad | lemic title e | lection: | 2009 | Faculty of Technical Sci | ences - Novi Si | he | Applied Computer Science and Informatics | | |
| PhD | thesis | | 1988 | Faculty of Electrical Eng | ineering - Sara | ievo | Applied Computer Science and Informatics | | |
| Bach | elor's thesi | s | 1973 | Faculty of Electrical Eng | ineering - Sara | ievo | Applied Computer Science and Informatics | | |
| Magi | ster thesis | - | 1070 | Faculty of Electrical Eng | ineering - Sara | jevo | Electrical and Computer Engineering | | |
| List o | of courses b | eing he | ld by the tea | acher in the accredited stu | idy programme | s | | | |
| | | | | | | | | | |
| | ID | Course | e name | | | Study pro | gramme name, study type | | |
| 1. | AU54 | Geoint | formation S | vstems | | (E20) Con Academic | nputing and Control Engineering, Undergraduate Studies | | |
| | | 000111 | | , | | (GI0) Geo Studies | desy and Geomatics, Undergraduate Academic | | |
| | | | | | | (E20) Con Academic | nputing and Control Engineering, Undergraduate Studies | | |
| 2. | E243 | Humai | n Computer | Interaction | | (SE0) Sof Undergrad | tware Engineering and Information Technologies, uate Academic Studies | | |
| | | | | | | (SEL) Software Engineering and Information Technologies Loznica, Undergraduate Academic Studies | | | |
| 3. | GI029 | Utility Information Systems and their Applic | | | ation | (GI0) Geo Studies | desy and Geomatics, Undergraduate Academic | | |
| 4. | GI205 | Inform | Information Systems and Databases | | | (GI0) Geo Studies | desy and Geomatics, Undergraduate Academic | | |
| | | | | | | (E20) Con Academic | nputing and Control Engineering, Undergraduate Studies | | |
| 5. | RI43A | Databa | Databases 1 | | | (ES0) Power Software Engineering, Undergraduate Academic Studies | | | |
| | | | | | | (MR0) Measurement and Control Engineering, Undergraduate Academic Studies | | | |
| 6 | | Datab | 2000 2 | | | (E20) Computing and Control Engineering, Undergraduate Academic Studies | | | |
| 0. | KI43B | Databa | ases 2 | | | (SE0) Software Engineering and Information Technologies Undergraduate Academic Studies | | | |
| | | | | | | (E20) Con Academic | nputing and Control Engineering, Undergraduate Studies | | |
| | | | | | | (ES0) Pov Academic | ver Software Engineering, Undergraduate Studies | | |
| 7. | RI4A | Comp | uter Graphic | CS | | (F10) Eng Studies | ineering Animation, Undergraduate Academic | | |
| | | | | | | (SE0) Sof Undergrad | tware Engineering and Information Technologies, uate Academic Studies | | |
| | | | | | | (SEL) Sof Loznica, U | tware Engineering and Information Technologies - ndergraduate Academic Studies | | |
| 8. | 0RI43B | Databa | ases 2 | | | (ES0) Pov Academic | ver Software Engineering, Undergraduate Studies | | |
| 9. | BM118E | Databa | ases | | | (BM0) Bio Studies | medical Engineering, Undergraduate Academic | | |
| 10 | E0343 | Humo | n-Computer | | | (ES0) Pov Academic | ver Software Engineering, Undergraduate Studies | | |
| 10. | L0243 | | | | | (F10) Engineering Animation, Undergraduate Academic Studies | | | |
| 11. | EE417A | Databa | ases | | | (E10) Pow Engineerin | ower, Electronic and Telecommunication ring, Undergraduate Academic Studies | | |



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

Study Programme Accreditation

MASTER 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 | | | | |
|-------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------|----------------|--|--|
| | | | | (E20) Computing and Control Engineering, Master Academic Studies | | | | |
| 12. | 2. E2505 | Multimedia Systems | | (ESU) Power So Studies | ntware Engineering, Master | Academic | | |
| | | | (F20) Engineerii | ng Animation, Master Acade | mic Studies | | | |
| | | | | (SE0) Software Engineering and Information Technologies, Master Academic Studies | | | | |
| 12 | E2516 | Virtual Baality Systems | (E20) Computin Academic Studie | g and Control Engineering, N es | Master | | | |
| 13. | E2310 | Virtual Reality Systems | | (SE0) Software Engineering and Information Technologies, Master Academic Studies | | | | |
| 14. | FDS151 | Selected Chapters in Multimedia | | (F00) Graphic Engineering and Design, Doctoral Academic Studies | | | | |
| Rep | oresentative | e refferences (minimum 5, not more th | an 10) | | | | | |
| 1. | 1. Mihajlović D., Informacioni sistemi i projektovanje baza podataka, FTN Novi Sad, 1998 | | | | | | | |
| 2. | Mihajlovid | ć D, Obradović D,Jedan algoritam saž | imanja srpskohrvatski | h reči, Informatika | a br 4, pp45-47, 1982 | | | |
| 3. | Mihajlovid | ć D, Obradović D, An evalution of text | ual documents indexir | ig methods, Yujor | , 1992, pp107-112. | | | |
| 4. | Mihajlovid | ć D i ostali, Softversko rešenje za farm | naceutski informacioni | sistem, Diskobolo | os 97. | | | |
| 5. | Mihajlovid | ć D, Kecman Ž, Farmaceutski informa | cioni sistem, I kongres | s farmaceuta Jugo | oslavije, Vrnjačka Banja, 199 | 4 | | |
| 6. | Mihajlovid | ć D, Izbor parova leksičkih jedinica iz j | ooznatog rečnika za a | utomatizovano po | stavljanje relacija u tezaurus | su | | |
| 7. | Mihajlovio | ć D, Odredjivanje vrsta reči iz srpskoh | rvatskog jezika primer | nom računara, Info | ormatica, br 1, pp52-54, 198 | 38 | | |
| 8. | Perišić B, aspekti, S | , Obradović D, Mihajlović D, Standard Standardizacija i kvalitet u informacion | izacija metodologije pi im tehnologijama, bec | ojektovanja inforr grad 1995. | nacionih sistema software-in | iženjerski | | |
| 9. | Mihajlovio pp73-83, | ć D, Nićin V, Prilog razvoju automastk Novi Sad | e obrade informacija ι | INDOK-delatnos | ti u organima uprave, Dani ir | nformatike 80, | | |
| 10. | Obradovi | ć D, Perišić B, Mihajlović D, Konjović | Z, Stanje i trendovi u p | orojektovanju infor | macionih sistema, IPME, Be | eograd, 1992 | | |
| Sur | nmary data | for teacher's scientific or art and profe | essional activity: | | | | | |
| Quot | ation total : | | | | | | | |
| Total | of SCI(SSC | CI) list papers : | | | | | | |
| Curre | ent projects | : | Domestic : | | International : | | | |



Study Programme Accreditation



MASTER ACADEMIC STUDIES

Engineering Animation

| Name and last name: | | | | Obradović M. Ratko | | | | |
|---------------------|-----------------|-----------------------------------------------------------|---------------|-----------------------------|-----------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|--|
| Acad | lemic title: | | | | Full Professo | r | | |
| Nam | e of the inst | titution v | vhere the te | eacher works full time and | Faculty of Tee | chnical Scie | nces - Novi Sad | |
| starti | ing date: | | | | 02.09.1993 | | | |
| Scier | ntific or art f | ield: | 1 | | Computer Gra | aphics | | |
| Acad | lemic caries | er | Year | Institution | | | Field | |
| Acad | lemic title e | lection: | 2012 | Faculty of Technical Sci | ences - Novi Sa | ad Computer Graphics | | |
| PhD | thesis | | 2000 | Faculty of Sciences - No | ovi Sad | | Computer Graphics | |
| Magi | ister thesis | 1997 Faculty of Sciences - Novi S | | | ovi Sad | Computer Graphics | | |
| Bach | nelor's thesis | S | 1993 | Faculty of Technical Sci | ences - Novi S | ad | Machine Elements, Construction Principles, Machine and Mechanizm Theory, Power and Motion Transfer and Eng.Communication | |
| List o | of courses b | eing he | ld by the te | acher in the accredited stu | udy programme | s | | |
| | ID | Course name | | | | Study pro | gramme name, study type | |
| 1. | IA020 | Advan | ced Display | / Technologies | | (F10) Eng Studies | ineering Animation, Undergraduate Academic | |
| | | | | | | (M20)Meo Undergrad | chanization and Construction Engineering, uate Academic Studies | |
| 2 | M108 | Engine | ering Gran | hic Communications | | (M30) Ene Academic | ergy and Process Engineering, Undergraduate Studies | |
| | in roo | Linging | soning orap | | | (M40) Tec Undergrad | chnical Mechanics and Technical Design, uate Academic Studies | |
| | | | | | | (P00)Proo Studies | duction Engineering, Undergraduate Academic | |
| 2 | S012 | Dooori | ntivo Coom | otry and Engineering Dray | wing | (S00) Traffic and Transport Engineering, Undergraduate Academic Studies | | |
| 5. | 3012 | Descriptive Geometry and Engineering Dra | | | wing | (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies | | |
| 4. | IA006 | Spatia | I Shape De | sign | | (F10) Eng Studies | ineering Animation, Undergraduate Academic | |
| 5. | IA009 | 3D Mo | odeling | | | (F10) Engineering Animation, Undergraduate Academic Studies | | |
| 6. | IA014 | Advan | ced Engine | ering Animation | | (F10) Engineering Animation, Undergraduate Academic Studies | | |
| 7. | IGA013 | Chara | cter Animat | ion | | (F10) Engineering Animation, Undergraduate Academic Studies | | |
| 8. | IGA055 | Specia | al Visual Eff | ects | | (F10) Eng Studies | ineering Animation, Undergraduate Academic | |
| 9. | IGB034 | Video | in Engineer | ing Animation | | (F10) Eng Studies | ineering Animation, Undergraduate Academic | |
| 10. | IGB340 | Funda | mentals of | Engineering Animation | | (F10) Eng Studies | ineering Animation, Undergraduate Academic | |
| 11. | ZC007 | Engine | eering Grap | hic Communications | | (ZC0) Clea Academic | an Energy Technologies, Undergraduate Studies | |
| 12. | IA018 | Comp | uter Geome | etry | | (F20) Eng | ineering Animation, Master Academic Studies | |
| 13. | AD0010 | Advan Archite | ced Animat | ion and Video Post Techn | iques in | (AD0) Dig Architectur | ital Techniques, Design and Production in e and Urban Planning, Master Academic Studies | |
| | | | | | | (E20) Con Academic | nputing and Control Engineering, Master Studies | |
| 14. | E2528 | Comp | uter game o | levelopment | | (SE0) Software Engineering and Information Technologie | | |
| 15. | IA005 | Histor | y of Animati | on | | (F20) Eng | ineering Animation, Master Academic Studies | |
| 16. | AIDO8 | AID08 Advanced Interdisciplinary Scientific Visualization | | | | (F20) Eng | ineering Animation, Doctoral Academic Studies | |
| Rep | presentative | e reffere | nces (minin | num 5, not more than 10) | | | | |
| 1 | Milojević | Z., Nav | alušić S., M | lilankov M., Obradović R., | Harhaji V., Des | snica E.: Sy | stem for femoral tunnel position determination | |
| · · | based on | the X - | ray, Health | MED, 2011, Vol. 5, No 4, | pp. 894-900, IS | SSN 1840-2 | 991 | |



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

Study Programme Accreditation



MASTER ACADEMIC STUDIES

| Rep | presentative refferences (minimum 5, not more th | an 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., Ma L.) in a medium scale batch dryer with different No 3, pp. 108-115, ISSN 1431-9292 | artinov M.: Convective t modes of air circulati | e drying of naked on., Zeitschrift für | seeded oil pumpkin seeds Arznei- und Gewürzpflanz | (Cucurbita pepo en, 2012, Vol. 17, | |
| 4. | Obradović R., Popkonstantinović B., Beljin B.: Polygons, rad je u štampi, Technics Technolog | Algorithm for Approxinities Education Manage | mation Transition ement / TTEM, 20 | al Developable Surfaces Be 012, Vol. 7, No 4, ISSN 184 | etweeen two 0-1503 | |
| 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., Milanl Femur and Screw Built into Human Knee, Acad ISSN 1583-7904 | kov M., Dragoi M., Bej demic Journal of Manu | u L.: System for Ifacturing Engine | 3D Approximate Model Ger ering – AJME, 2010, Vol. 8 | neration of the , No 1, pp. 73-78, | |
| 9. | Obradović R.: The Plane Section of the Surfac 2005, Vol. 3, No 2, pp. 235-242, ISSN 0354-46 | ce of Revolution, Facta 605, UDK: 514.752.2:6 | a universitatis - se 681.3.06(045)=20 | ries: Architecture and Civil | Engineering, | |
| 10. | Obradović R., Milojević Z.: Plane section of co Civil Engineering, 2005, Vol. 2, No 3, pp. 195-2 | ne and cylinder in con 207, ISSN 0354–4605 | nputer geometry, | Facta universitatis - series: | Architecture and | |
| Sur | mmary data for teacher's scientific or art and profe | essional activity: | | | | |
| Quot | ation total : | 50 | | | | |
| Tota | l of SCI(SSCI) list papers : | 7 | | | | |
| Curre | ent projects : | Domestic : | 0 | International : | 1 | |



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Engineering Animation

| Name and last name: | | | | | Popkonstantinović D. Branislav | | | | | |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------|---------------------------------|----------------------------------------------|---------------------------------------------|-------------------------------------------------------------------------|--------------------------------------|--|
| Acad | emic title: | | | | | Associate Professor | | | | |
| Nam | e of the inst | itution v | vhere the te | acher works full tir | ne and | Faculty of Me | Faculty of Mechanical Engineering - Beograd | | | |
| starti | ng date: | | | | | 01.01.2005 | | | | |
| Scier | ntific or art f | ield: | | | | Engineering Drawing and Descriptive geometry | | | | |
| Acad | emic caries | er | Year | Institution | | Field | | | | |
| Acad | emic title e | ection: | 2008 | Faculty of Mecha | nical E | ngineering - Be | ograd | Engineering Drawing and Desci | riptive geometry | |
| PhD | thesis | | 2002 | Faculty of Archite | ecture - | Beograd | | Geometric Space Theory and Ir Architecture and Urbanism | nterpretation in | |
| Magi | ster thesis | | 1994 | Faculty of Archite | ecture - | Beograd | | Geometric Space Theory and Ir Architecture and Urbanism | nterpretation in | |
| Bach | elor's thesis | 6 | 1989 | Faculty of Mecha | nical E | ngineering - Be | eograd | Mechanizm and Machine Theor | у | |
| List c | of courses b | eing he | ld by the tea | acher in the accred | lited stu | udy programme | S | • | | |
| | ID | Course | e name | | | | Study pro | gramme name, study type | | |
| 1. | IGA031 | Aesthe | etics of Visu | al Communication | S | | (F10) Eng Studies | ineering Animation, Undergradua | te Academic | |
| 2. | IA017 | Interdi | sciplinary S | cientific Visualizati | on | | (F20) Eng | ineering Animation, Master Acad | emic Studies | |
| 3. | AIDO8 | Advan | ced Interdis | ciplinary Scientific | Visuali | ization | (F20) Eng | ineering Animation, Doctoral Aca | demic Studies | |
| Rep | oresentative | reffere | nces (minin | num 5, not more th | an 10) | | | | | |
| 1. | Miladinov RUBBER 0 445 | ić, Lj., F PROFI | Popkonstan LES, Scien | tinović, B., Stoimer tific Research and | nov, M. Essays | , Petrović, D., C s, Vol. 6 (16), st | Ostojić, G., S r. 3431-343 | Stankovski, S.: LASER INSPECT 6, 19 August, 2011, ISSN 1992-2 | ION OF 248, IF 2010 = | |
| 2. | Popkonst MOTION 1124, IF | antinovi SIMUL/ 2010 = (| ić, B.,Miladi ATION OF 0,143 | nović, Lj., Stoimen THE REMONTOIR | ov, M., E MEC | Petrović, D., O HANISM, Tran | stojić, G., S sactions of | tankovski, S.: DESIGN, MODELL Famena, XXXV-2, str. 79 - 93, 20 | .ING AND 011, ISSN 1333- | |
| 3. | Popkonst for Thern 664, Octo | antinovi nal Com ober 201 | ić, B.,Miladi pensation c I 1, ISSN 00 | nović, Lj., Stoimen of Long-Period Con 19-5596, IF 2010 = | ov, M., npound = 0,511 | Petrović, D., P I Pendulum, Inc | etrović, N., (lian Journal | Ostojić, G., Stankovski, S.: The P of Pure & Applied Phisics, Vol. 4 | ractical Method 9(10), str.657 - | |
| 4. | Janković Compute | J., Petr r Simula | rović, N., Mi ation of Fas | iladinović, Lj., Popł t Hydraulic Actuato | onstan rs, Iran | ntinović, B., Sto nian Journal of S | imenov, M., Science and | Petrović, D., Ostojić, G., Stankov J Technology, ISSN 1028-6284, II | /ski, S.: F 2010 = 0,283 | |
| 5. | Branislav Cylindrica Copyrigh | Popkor al Map F t Helder | nstantinović Projection B mann Verla | , Aleksandar Čuča ased on Some His ig, 2006. ISSN: 143 | ković, (torical 33-815 | On a Possible (Facts, Journal 1 7 | Constructive for Geometr | e Geometrical Derivation of Merca ry and Graphics 10 (2006), No. 1, | tor's Conformal 063—071, | |
| 6. | Branislav Collinear ISSN: 14 | Popkor Mappin 33-8157 | nstantinović g Methods, | , Dragan Petrovic, Journal for Geome | A Geor etry and | metrical Approa d Graphics 11 (| ach to the N 2007), No. 2 | umerical Stability Analysis of Son 2 187-198, Copyright Heldermanr | ne Projective n Verlag, 2008, | |
| 7. | Obradovi Polygons štampi | ć R., Po , Techn | pkonstantir ics Technol | nović B., Beljin B.: <i>i</i> ogies Education M | Algorith anager | nm for Approxin ment / TTEM, 2 | nation Trans 012, Vol. 7, | sitional Developable Surfaces Bet No 4, ISSN 1840-1503, rad je u | weeen two | |
| 8. | Obradovi in the Pro CAD Moo ISSN 184 | ć R., Pe ocess of lel Desi 0-1503 | etter O., Vid gn (prihvaćo | aković M., Popkon en za objavljivanje | stantino u 2013 | ović B., Popović 8), Technics Tec | 5 B., Milojev chnologies E | ić Z.: Using Contemporary 3D We Education Management, 2013, Vo | eb Technologies bl. 8, No 1, 2/3, | |
| 9. | Obradovi Studies a No 1, ISS | ć R., Vu t the Fa N 1840 | ijanović M., iculty of Teo -1503, rad j | Popkonstantinović chnical Sciences in je u štampi | : B., Šić Novi S | đanin P., Beljin Sad, Technics T | B., Kekeljev echnologies | vić I.: Fine Arts Subjects at Comp s Education Management / TTEM | uter Graphics I, 2013, Vol. 8, | |
| 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 / TTEN 2013, Vol. 8, No 3, ISSN 1840-1503 | | | | | Cupolae Based agement / TTEM, | | | | |
| Sur | nmary data | for teac | cher's scient | tific or art and profe | essiona | al activity: | | | | |
| Quot | ation total : | | | | 0 | | | | | |
| Total | of SCI(SS | ار) list p | apers : | | 8 Dem | | 4 | Internetiers - Li | | |
| Curre | ent projects | | | | Dome | estic : | 1 | International : | | |



Study Programme Accreditation



MASTER ACADEMIC STUDIES

Engineering Animation

| 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 | | | |
| Starting date. | | | | | 15.06.2000 | | Oliveral Descention | |
| Scier | ntific or art f | | Veer | Institution | Telecommun | cations and | Signal Processing | |
| Acad | iemic caries | er La atiana | Year | Institution | energe Nevi C | e d | Field | |
| Acad | thooic | lection: | 2010 | Faculty of Technical Sci | ences - Novi Si | ad | Telecommunications and Signal Processing | |
| Magi | eter thesis | | 2009 | Faculty of Technical Sci | ences - Novi S | au | Telecommunications and Signal Processing | |
| Bach | elor's thesi | | 1002 | Faculty of Technical Sci | ences - Novi S | ad | Telecommunications and Signal Processing | |
| List | of courses h | eina he | ld by the te | acher in the accredited stu | Idv programme | 20 | releasing | |
| LIST | | | | | | | | |
| | ID | Course | e name | | | Study pro | gramme name, study type | |
| 1. | EK314 | Digital | Signal Pro | cessina | | (MR0) Me Undergrad | asurement and Control Engineering, uate Academic Studies | |
| | | | | | | (E10) Pow Engineerin | er, Electronic and Telecommunication g, Undergraduate Academic Studies | |
| 2. | EK411 | Digital | Filters | | | (E10) Pow Engineerin | er, Electronic and Telecommunication g, Undergraduate Academic Studies | |
| | | | | | | (F10) Eng Studies | ineering Animation, Undergraduate Academic | |
| 3. | EK421 Digita | Digital | Image Proc | cessing | | (S01) Pos Undergrad | tal Traffic and Telecommunications, uate Academic Studies | |
| | | | | | | (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies | | |
| 4. | Z413A | Acoustics and Noise Protection | | | | (Z20) Envi Studies | ronmental Engineering, Undergraduate Academic | |
| 5. | BM118B | Acoustics and Audio Engineering in Medic | | | ne | (BM0) Bio Studies | medical Engineering, Undergraduate Academic | |
| 6. | E137 | Basics | of Telecon | nmunications | | (E10) Pow Engineerin | er, Electronic and Telecommunication g, Undergraduate Academic Studies | |
| 7. | EK312 | Acous | tics and Au | dio Engineering | | (E10) Pow Engineerin | er, Electronic and Telecommunication g, Undergraduate Academic Studies | |
| 8. | EK312L | Acous | tics and Au | dio Engineering in Multime | edia | (F10) Eng Studies | ineering Animation, Undergraduate Academic | |
| 9. | EK422 | Digital | Audio Sign | al Processing | | (E10) Pow Engineerin | er, Electronic and Telecommunication g, Undergraduate Academic Studies | |
| 10. | ETI27 | Audio | Engineering | 3 | | (E02) Elect Profession | ctronics and Telecommunications, Undergraduate al Studies | |
| 11. | ETI35 | Digital | Sound Pro | cessing | | (E02) Elec Profession | ctronics and Telecommunications, Undergraduate al Studies | |
| 10 | EKEDA | Inform | ation and C | communication Theory | | (S01) Pos Academic | tal Traffic and Telecommunications, Master Studies | |
| 12. | EK921 | morm | | ommunication Theory | | (E10) Pow Engineerin | er, Electronic and Telecommunication g, Master Academic Studies | |
| | | | | | | (F20) Eng | ineering Animation, Master Academic Studies | |
| 13. | EK522 | Compu | uter Vision (| Digital Image Processing | 2) | (E10) Pow Engineerin | er, Electronic and Telecommunication g, Master Academic Studies | |
| 14. | S0151 | Applica Teleco | ation of Dig | ital Signal Processing in ons | | (S01) Pos Academic | tal Traffic and Telecommunications, Master Studies | |
| 15. | SI036 | Compu | uter-Teleph | ony Integration | | (E00) Pow Engineerin | er, Electronic and Telecommunication g, Specialised Professional Studies | |
| 16. | SI037 | Teleco | ommunicatio | on Infrastructure of E-Busi | ness | (E00) Pow Engineerin | er, Electronic and Telecommunication g, Specialised Professional Studies | |
| 17. | BMIM2A | Assisti | ve Informat | ion and Communications | Technologies | (BM0) Bio | medical Engineering, Master Academic Studies | |
| 18. | EK422L | Digital | Audio Sign | al Processing | | (F20) Eng | ineering Animation, Master Academic Studies | |
| Reg | presentative | e reffere | nces (minin | num 5. not more than 10) | | | | |

| UNIVERSITY OF | NOVI | SAD |
|---------------|------|-----|
|---------------|------|-----|



Study Programme Accreditation



MASTER ACADEMIC STUDIES

| Rep | 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., Seču a live VoIP network using SIP protocol", Electro | jski M., Šenk V.: "Cor onics and electrical en | nparative Analysis gineering, 2012, V | s of the Performance of Diffe Vol. 117, No 1, pp. 37-42, IS | erent Codecs in SN 1392-1215 | | |
| 3. | Popović B., Janev M., Pekar D., Jakovljević N., Hierarchical Clustering of Gaussian Mixture Mo (2012), pp. 377-389, ISSN 0924-669X | , Gnjatović M., Sečujs odels, DOI:10.1007/s1 | ki M., Delić V.: A 0489-011-0333-9 | Novel Split-and-Merge Algo , Applied Intelligence, 2012, | rithm for Vol. 37, No 3 | | |
| 4. | Delić V., Bojanić M., Gnjatović M., Sečujski M., Jovičić S.: Discrimination capability of prosodic and spectral features for emotional speech recognition DOI: http://dx.doi.org/10.5755/j01.eee.18.9.2806, Electronics and electrical engineering, 2012, Vol. 18, No 9, pp. 51-54, ISSN 1392-1215 | | | | | | |
| 5. | Delić V., Sečujski M., Jakovljević N., Janev M., Obradović R., Pekar D.: "Speech Technologies for Serbian and Kindred South Slavic Languages", 9th Chapter in the book Advances in Speech Recognition, Noam R. Shabtai (Ed.) Available from: http://www.intechopen.com/articles/show/title/speech-technologies-for-serbian-and-kindred-south-slavic-languages, SCIYO, 2010, str. 141-164, ISBN 978-953-307-097-1 | | | | | | |
| 6. | Pekar D., Mišković D., Knežević D., Vujnović Sedlar N., Sečujski M., Delić V.: "Applications of Speech Technologies in Western Balkan Countries", 7th Chapter in the book Advances in Speech Recognition, Noam R. Shabtai (Ed.) Available from http://www.intechopen.com/articles/show/title/applications-of-speech-technologies-in-western-balkan-countries, SCIYO, 2010, str. 105-122_ISBN 978-953-307-097-1 | | | | | | |
| 7. | Sečujski M.: "Development of language resour "Speech and Language: Interdisciplinary Rese 139, UDK: ISBN 978-86-81879-27-6 | rces for the Serbian la arch III", Eds.: S. T. Jo | nguage required f ovičić, M. Sovilj, B | for part-of-speech tagging", (eograd, LAAC and IEPPS, 2 | Chapter in book: 2009, str. 125- | | |
| 8. | Milan Sečujski: A Software Tool for Automatic pp. 97- 103, UDK: 004.934 : 004.4, ISSN 1451 | Part-of Speech Taggir -7124. | ng in Serbian Lan | guage, Primenjena lingvistika | a, 2008, No. 9, | | |
| 9. | Vlado Delić, Darko Pekar, Radovan Obradović Universitatis (Niš), Series: Electronics and Ene | , Milan Sečujski: "Spe rgetics, 2003, Vol. 16, | ech Signal Proces No. 3, pp. 355- 3 | ssing in ASR&TTS Algorithm 64, ISSN 0353-3670. | ns", Facta | | |
| 10. | Jakovljević N., Sečujski M., Delić V.: Vocal Tra EUROCON, Sankt Peterburg: IEEE, 18-23 Maj | act Length normalizati j, 2009, pp. 417-420, I | on strategy based SBN 978-1-4244- | l on maximum likelihood crite 3861-7 | erion, 8. | | |
| Sur | nmary data for teacher's scientific or art and profe | essional activity: | | | | | |
| Quot | ation total : | 0 | | | | | |
| Total | of SCI(SSCI) list papers : | 4 | | I | | | |
| Curre | Current projects : Domestic : 2 International : 0 | | | | | | |



Study Programme Accreditation



Engineering Animation

| Name and last name: | | | Sladoje Matić I. Nataša | | | | | | |
|---------------------|-----------------|--------------------------------------|-------------------------|-----------------------------|------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--|--|
| Acad | emic title: | | | | Associate Professor | | | | |
| Nam | e of the inst | titution v | where the te | acher works full time and | Faculty of Technical Sciences - Novi Sad | | | | |
| starti | ng date: | | | | 14.03.1994 | 14.03.1994 | | | |
| Scier | ntific or art f | ield: | | | Mathematics | | | | |
| Acad | emic cariee | er | Year | Institution | | | Field | | |
| Acad | emic title el | lection: | 2011 | | | | Mathematics | | |
| PhD | thesis | | 2005 | University of Novi Sad - | Novi Sad | | Mathematical Sciences | | |
| Magi | ster thesis | | 1998 | Faculty of Sciences - No | ovi Sad | | Mathematical Sciences | | |
| Bach | elor's thesis | S | 1992 | Faculty of Sciences - No | ovi Sad | | Mathematical Sciences | | |
| List c | of courses b | eing he | ld by the tea | acher in the accredited stu | udy programme | es | | | |
| | ID | Course | e name | | | Study pro | gramme name, study type | | |
| 1. | A101 | Mathe | matics | | | (A00) Arcl | nitecture, Undergraduate Academic Studies | | |
| 2. | E135B | Mathe | matical Ana | Ilysis 2 | | (GI0) Geo Studies | desy and Geomatics, Undergraduate Academic | | |
| 3. | GI107 | Mathe | matical Ana | Ilysis 1 | | (GI0) Geo Studies | desy and Geomatics, Undergraduate Academic | | |
| 4. | IAM001 | Mathe | matical Sha | pe Modeling for Compute | r Animation | (F10) Eng Studies | ineering Animation, Undergraduate Academic | | |
| 5. | IAM004 | Geom | etry of Discr | rete Space | | (F10) Eng Studies | F10) Engineering Animation, Undergraduate Academic Studies | | |
| 6. | IGA008 | Mathematics for Engineering Graphics | | | | (F10) Eng Studies | ineering Animation, Undergraduate Academic | | |
| 7. | BMI91 | Mathematics 1 | | | | (BM0) Bio Studies | medical Engineering, Undergraduate Academic | | |
| 8. | BMI92 | Mathe | matics 2 | | | (BM0) Bio Studies | medical Engineering, Undergraduate Academic | | |
| 9. | E101A | Discre | te Mathema | atics | | (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies | | | |
| | | | | | | (E11) Pow Engineerin | ver, Electronic and Telecommunication g, Specialised Academic Studies | | |
| | | | | | | (I12) Industrial Engineering, Specialised Academic Studies | | | |
| 10. | DZ01MS | Selected Chapters in Mathematics | | | | (I22) Engi Studies | neering Management, Specialised Academic | | |
| | | | | | | (Z00) Env Studies | ironmental Engineering, Specialised Academic | | |
| 11. | Z506 | 20BAd | lvanced Co | urse in Mathematics 1 | | (ZP1) Disa Academic | aster Risk Management and Fire Safety, Master Studies | | |
| | | | | | | (Z20) Envi | ronmental Engineering, Master Academic Studies | | |
| 12. | IA018 | Compu | uter Geome | try | | (F20) Eng | ineering Animation, Master Academic Studies | | |
| 13. | D0M28 | Digital | Geometry | | | (OM1) Ma Studies | thematics in Engineering, Doctoral Academic | | |
| 14. | D0M29 | Image | Processing | 1 | | (OM1) Ma Studies | thematics in Engineering, Doctoral Academic | | |
| 15. | D0M30 | Image | Processing | 12 | | (OM1) Ma Studies | thematics in Engineering, Doctoral Academic | | |
| 16. | D0M31 | Applie | d Algorithm | S | | (OM1) Ma Studies | thematics in Engineering, Doctoral Academic | | |
| 17. | D0M32 | Combi | natorial and | J Geometric Algorithms | | (OM1) Ma Studies | thematics in Engineering, Doctoral Academic | | |
| 18. | D0M33 | Positio | onal Games | | | (OM1) Mathematics in Engineering, Doctoral Academic Studies | | | |



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES



| | | | | (E10) Power, El Engineering, Do | ectronic and Telecommunic ctoral Academic Studies | cation |
|------|------------------------|------------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------|-------------------|
| | | | | (E20) Computing and Control Engineering, Doctoral Academic Studies | | |
| | | | | (F00) Graphic E Studies | Engineering and Design, Do | ctoral Academic |
| | | | | (F20) Engineeri | ng Animation, Doctoral Aca | demic Studies |
| | | | | (G00) Civil Engineering, Doctoral Academic Studies | | |
| 1 | | | | (GI0) Geodesy | and Geomatics, Doctoral Ac | ademic Studies |
| | | | | (H00) Mechatro | nics, Doctoral Academic Stu | udies |
| 19. | DZ01M | Selected Chapters in Mathematics | | (I20) Industrial I Doctoral Acader | Engineering / Engineering N nic Studies | lanagement, |
| | | | | (M00) Mechanio | cal Engineering, Doctoral Ac | cademic Studies |
| | | | | (M40) Technica | I Mechanics, Doctoral Acad | emic Studies |
| | | | | (OM1) Mathema Studies | atics in Engineering, Doctor | al Academic |
| | | | | (S00) Traffic En | gineering, Doctoral Academ | nic Studies |
| | | | | (Z00) Environm Studies | ental Engineering, Doctoral | Academic |
| | | | | (Z01) Safety at | Work, Doctoral Academic S | tudies |
| 20. | AID07 | Digital geometry | (F20) Engineeri | ng Animation, Doctoral Aca | demic Studies | |
| Re | oresentative | e refferences (minimum 5, not more th | an 10) | | | |
| 1. | Sladoje N Computir | N., Lindblad J., Nystrom I.: Defuzzifica ng, 2011, Vol. 29, No 2-3, pp. 127-141 | ation of spatial fuzzy se , ISSN 0262-8856 | ets by feature dist | ance minimization., Image | and Vision |
| 2. | Lukić T., 2011, Vo | Lindblad J., Sladoje N.: Regularized I. 27, No 8, pp. 8501-1, ISSN 0266-56 | Image Denoising Base | ed on Spectral Gr | adient Optimization, Inverse | Problems, |
| 3. | Sladoje N Pattern A | N., Lindblad J.: High precision bound Analysis and Machine Intelligence, 200 | lary length estimation)9, Vol. 31, No 2, pp. 3 | by utilizing grey-le 57-363, ISSN 01 | evel information ,IEEE Tra 62-8828 | ansactions on |
| 4. | N. Sladoj No. 5, pp | ie and J. Lindblad, "Representation a b. 517-534, 2007.<\eng> | nd Reconstruction of F | uzzy Disks by Mo | oments", Fuzzy Sets and Sy | vstems, Vol. 158, |
| 5. | N. Sladoj Computir | ie, I. Nyström, and P.K. Saha, "Measu ng, vol. 23, pp 123-132, 2005.<\eng> | rements of digitized of | bjects with fuzzy b | porders in 2D and 3D", Imag | ge and Vision |
| 6. | J. Zunic and Mac | and N. Sladoje, "Efficiency of Charact hine Intelligence, vol.22. No.4. pp 407 | erizing Ellipses and E 7-414, 2000.<\ena> | Ellipsoids by Discr | ete Moments", IEEE Trans. | Pattern Analysis |
| 7. | J. Chanu Pattern F | ssot, I. Nyström and N. Sladoje, "Sha Recognition Letters, vol. 26(6), pp. 735 | pe signatures of fuzzy -746. 2005 <\eng> | star-shaped sets | based on distance from the | e centroid", |
| 8. | Ćurić,V. | , Lindblad, J., Sladoje, N., Sarve, H., | Borgefors, B. A news | set distance and i | ts application to shape regis | stration. |
| 9. | Lindblad | L., Sladoje N. Coverage Segmentatio | n based on Linear Uni | mixing and Minim | ization of Perimeter and Bo | undary |
| 10 | Malmber | g F., Lindblad J., Sladoje N., Nystrom | I.: A graph-based fram | mework for sub-p | ixel image segmentation, Th | neoretical |
| 10. | Compute | r Science, 2011, Vol. 412, No 15, pp. | 1338-1349 | | | |
| Su | nmary data | for teacher's scientific or art and profe | essional activity: | | | |
| Toto | ation total : | CI) list naners : | 21 | | | |
| Curr | ent projecte | | Domestic : | 2 | International · | 3 |
| | | • | 2 3110000 . | - | | ~ |



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

Study Programme Accreditation



Engineering Animation

| Name and last name: | | | | Stojaković M. Mila | | | | |
|--------------------------------------------|------------------------------------------------------|-----------|--------------------------------------|-----------------------------|------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|--|
| Academic title: | | | | Full Professor | | | | |
| Nam | e of the inst | itution w | where the te | acher works full time and | Faculty of Technical Sciences - Novi Sad | | | |
| starti | ng date: | | | | 01.12.1975 | | | |
| Scier | ntific or art f | ield: | | | Mathematics | | | |
| Acad | emic cariee | er | Year | Institution | | | Field | |
| Acad | Academic title election: 1993 Faculty of Technical S | | | Faculty of Technical Sci | ences - Novi Sa | ad | Mathematics | |
| PhD | thesis | | 1980 | Faculty of Sciences - No | ovi Sad | | Mathematical Sciences | |
| Magister thesis 1978 Faculty of Mathematic | | | Faculty of Mathematics | - Beograd | | Mathematical Sciences | | |
| Bach | elor's thesis | 8 | 1975 | Faculty of Sciences - No | ovi Sad | | Mathematical Sciences | |
| List c | of courses b | eing hel | d by the tea | acher in the accredited stu | idy programme | S | | |
| | ID | Course | e name | | | Study pro | gramme name, study type | |
| 1. | E121 | Mathe | matical Ana | lysis 2 | | (E10) Pow Engineerin | er, Electronic and Telecommunication g, Undergraduate Academic Studies | |
| 2 | F135 | Probat | oility Statist | ics and Stochastic Proces | ses | (MR0) Me Undergrad | asurement and Control Engineering, uate Academic Studies | |
| 2. | 2100 | TTODUL | Jinty, Otation | | | (E10) Pow Engineerin | er, Electronic and Telecommunication g, Undergraduate Academic Studies | |
| 2 | E0044 | Matha | | husia Q | | (E20) Con Academic | nputing and Control Engineering, Undergraduate Studies | |
| з. | EZZIA | Mather | matical Ana | iysis z | | (MR0) Me Undergrad | asurement and Control Engineering, uate Academic Studies | |
| | | | | | | (E20) Con Academic | nputing and Control Engineering, Undergraduate Studies | |
| | | | | | | (ES0) Pow Academic | (ES0) Power Software Engineering, Undergraduate Academic Studies | |
| 4. | E224A | Probat | Probability and Stochastic Processes | | | (SE0) Soff Undergrad | tware Engineering and Information Technologies, uate Academic Studies | |
| | | | | | | (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies | | |
| 5. | ZC006 | Probat | oility, Statist | tics and Random Process | es | (ZC0) Clean Energy Technologies, Undergraduate Academic Studies | | |
| 6. | 0M504 | Operat | tional Resea | arch | | (OM1) Ma Studies | thematics in Engineering, Master Academic | |
| 7. | 0M505 | Stocha | astic Proces | ses | | (OM1) Ma Studies | thematics in Engineering, Master Academic | |
| 8. | 0ML504 | Operat | tional Resea | arch | | (OM1) Ma Studies | thematics in Engineering, Master Academic | |
| 9. | 0ML505 | Stocha | astic Proces | ses | | (OM1) Ma Studies | thematics in Engineering, Master Academic | |
| | | | | | | (E11) Pow Engineerin | ver, Electronic and Telecommunication g, Specialised Academic Studies | |
| | | | | | | (112) Indus | strial Engineering, Specialised Academic Studies | |
| 10. | DZ01MS | Selecte | ed Chapters | s in Mathematics | | (I22) Engii Studies | neering Management, Specialised Academic | |
| | | | | | | (Z00) Envi Studies | ironmental Engineering, Specialised Academic | |
| | | | | | | (F20) Eng | ineering Animation, Master Academic Studies | |
| 11. | IAM005 | Mather | matical Gar | ne Theory | | (OM1) Ma Studies | thematics in Engineering, Master Academic | |
| 12. | SD0M03 | Operat | tional Resea | arch | | (GI0) Geo Studies | desy and Geomatics, Specialised Academic | |
| 13. | SD0M15 | Statisti | cs | | | (GI0) Geo Studies | desy and Geomatics, Specialised Academic | |
| 14. | ZR503 | Statisti | cal Advanc | ed Models | | (Z01) Safe | ety at Work, Master Academic Studies | |
| 15. | D0M03 | Operat | tional Resea | arch | | (OM1) Mathematics in Engineering, Doctoral Academic Studies | | |



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

Study Programme Accreditation



MASTER ACADEMIC STUDIES

Engineering Animation

ist of courses being held by the teacher in the accredited study programme

| LIST C | ist of courses being held by the teacher in the accredited study programmes | | | | | | | |
|--------|-----------------------------------------------------------------------------|-------------------------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| | ID | Course name | | Study programme name, study type | | | | |
| 16. | D0M04 | Random Processes | | (OM1) Mathematics in Engineering, Doctoral Academic Studies | | | | |
| 17. | D0M15 | Statistics | | (OM1) Mathematics in Engineering, Doctoral Academic Studies | | | | |
| 18. | D0M27 | StatisticsApplied in Engineering | | (OM1) Mathematics in Engineering, Doctoral Academic Studies | | | | |
| 19. | DAU004 | Selected Chapters in Mathematics 2 | | (E20) Computing and Control Engineering, Doctoral Academic Studies | | | | |
| 20. | DOM59 | Fixed point theory | | (Mob) Mechatronics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies | | | | |
| | | | | (E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies | | | | |
| | | | | (E20) Computing and Control Engineering, Doctoral Academic Studies | | | | |
| | | | | (F00) Graphic Engineering and Design, Doctoral Acade Studies | | | | |
| | | | | (F20) Engineering Animation, Doctoral Academic Studies | | | | |
| | | | | Academic Studies (H00) Mechatronics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (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 (G00) Civil Engineering, Doctoral Academic Studies (G10) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, 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 (M40) Technical Mechanics, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies (Z01) Safety At York, Doctoral Academic Studies (Z01) Safety At York, Doctoral Academic Studies (Z01) Safety At York, Doctoral Academic Studies (Z01) | | | | |
| | | | | | | | | |
| 21 | | Colocted Chapters in Methometics | | (F00) Graphic Engineering and Design, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (G10) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (120) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, 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 | | | | |
| 21. | DZUTW | Selected Chapters in Mathematics | | | | | | |
| | | | | (M00) Mechanical Engineering, Doctoral Academic Studies | | | | |
| | | | | (M40) Technical Mechanics, Doctoral Academic Studies | | | | |
| | | | | (OM1) Mathematics in Engineering, Doctoral Academic Studies | | | | |
| | | | (S00) Traffic Engineering, Doctoral Acaden | | | | | |
| | | | | (Z00) Environmental Engineering, Doctoral Academic Studies | | | | |
| | | | | (Z01) Safety at Work, Doctoral Academic Studies | | | | |
| Rep | oresentative | e refferences (minimum 5, not more th | an 10) | | | | | |
| 1. | Mila Stoja | aković, Decomposition and representa | tion of fuzzy valued m | easure, Fuzzy Sets and Systems, 112(2000) 251-256 | | | | |
| 2. | Mila Stoja | aković, Fuzzy conditional expectation, | Fuzzy Sets and Syste | ems, 52(1992) 49-54 | | | | |
| 3. | Mila Stoja | aković, Fuzzy random variable, expec | tation, martingales, J.M | /ath.Anal.Appl., 184(1994) 594-606. | | | | |
| 4. | Mila Stoja | aković, Fuzzy martingales, Stochastic | Analysis and Applicati | ons, 14(1996), 355-368. | | | | |
| 5. | Mila Stoja | aković, Zoran Stojaković, Support fund | ction for fuzzy set, Pro | ceedings of Royal Society, London A, 452(1996), 421-438. | | | | |
| 6. | Mila Stoja | aković, Zoran Stojaković, Addition and | series of fuzzy sets, F | Fuzzy Sets and Systems, 83(1996) 341-346. | | | | |
| 7. | Mila Stoia | aković, Representation of fuzzv valued | l mappings, Fuzzv Sel | s and Systems, 98(1998) 375-381. | | | | |
| 8. | Mila Stoia | aković, Fuzzy valued measure. Fuzzv | Sets and Systems.650 | (1994) 95-104 . | | | | |
| 9. | Mila Stoja 88. | aković, Common fixed point theorems | in complete metric an | d probabilistic spaces,Bull. Australian Math. Soc.,36(1987)73 | | | | |
| 10. | Mila Stoja | aković, Zoran Ovcin, Fixed point theore | ems and variational pri | nciple, Fuzzy Sets and Systems, 66(1994)353-356. | | | | |
| Sur | nmary data | for teacher's scientific or art and profe | essional activity: | | | | | |
| Quot | ation total : | · · · | 71 | | | | | |
| Total | of SCI(SS | CI) list papers : | 16 | | | | | |
| Curre | ent projects | | Domestic : | 1 International : 1 | | | | |



Study Programme Accreditation

MASTER ACADEMIC STUDIES



| Name and last name: S | | | Stojaković Z. Vesna | | | | | | |
|-------------------------------------------------------------------------|-----------------|-----------------|-------------------------|------------------------------|-----------------|-----------------------------------------------------|--------------------------------------------------------------------------------------------|--|--|
| Acad | emic title: | | | | Assistant Pro | ssistant Professor | | | |
| Name of the institution where the teacher works full time and Faculty o | | | | acher works full time and | Faculty of Tee | chnical Scie | nces - Novi Sad | | |
| starti | ng date: | | | | 01.06.2005 | | | | |
| Scier | ntific or art f | ield: | X | | Geometric Sp | ace Theory | and Interpretation in Architecture and Urbanism | | |
| Acad | emic cariee | er | Year | Institution | | | | | |
| Acad | emic title el | ection: | 2011 | | | | Geometric Space Theory and Interpretation in Architecture and Urbanism | | |
| PhD | thesis | | 2011 | Faculty of Technical Scie | ences - Novi Sa | ad | Architecture | | |
| Bach | elor's thesis | S | 2004 | Faculty of Technical Scie | ences - Novi Sa | ad | Architecture | | |
| Magi | ster thesis | | - | | | | Architecture | | |
| List c | of courses b | eing he | ld by the tea | acher in the accredited stu | udy programme | S | | | |
| | ID | Course | e name | | | Study pro | gramme name, study type | | |
| 1. | A555 | Perspe | ective | | | (GI0) Geo Studies | desy and Geomatics, Undergraduate Academic | | |
| 2. | GG03 | Descri | ptive Geom | etry | | (G00) Civi | I Engineering, Undergraduate Academic Studies | | |
| 3. | IA017 | Image | Based Mod | leling | | (F10) Eng Studies | ineering Animation, Undergraduate Academic | | |
| 4. | IGA003 | Compu | uter Image I | Processing in Engineering | g Animation | (F10) Eng Studies | ineering Animation, Undergraduate Academic | | |
| 5. | Z418 | Geom | etry of Eco- | spatial Visualization | | (Z20) Envir Studies | ronmental Engineering, Undergraduate Academic | | |
| 6. | IA006 | Spatia | I Shape De | sign | | (F10) Eng | ineering Animation, Undergraduate Academic | | |
| 7. | IA007 | Geom | etry and Vis | ualization of 3D Space | | (F10) Eng | ineering Animation, Undergraduate Academic | | |
| 8. | A210 | Art tec | hniques of | drawing and architectural | presentations | (A00) Arch | nitecture. Undergraduate Academic Studies | | |
| 9. | A210S | Art tec | hniques of | drawing and architectural | presentations | (A00) Arch | nitecture, Undergraduate Academic Studies | | |
| 10. | A342 | Archite | ectural repre | esentations 1 - basic level | • | (A00) Arcł | nitecture, Undergraduate Academic Studies | | |
| 11. | A342S | Archite | ectural repre | esentations 1 - Advanced | level | (A00) Arch | nitecture, Undergraduate Academic Studies | | |
| 12. | A377 | Archite | ectural repre | esentations 3 | | (A00) Architecture, Undergraduate Academic Studies | | | |
| 13. | A555 | Perspe | ective | | | (A00) Architecture, Undergraduate Academic Studies | | | |
| 14. | IA003 | Perspe | ective | | | (F10) Eng Studies | F10) Engineering Animation, Undergraduate Academic tudies | | |
| 15. | ZC007 | Engine | ering Grap | hic Communications | | (ZC0) Clea Academic | ZC0) Clean Energy Technologies, Undergraduate | | |
| 16. | A291 | Repres | sentation of | a Wider Physical Environ | iment | (AD0) Digi Architectur | ital Techniques, Design and Production in e and Urban Planning, Master Academic Studies | | |
| 17. | IA254 | Preser Space | ntation Tech | niques of Architectural an | nd Urban | (F20) Eng | ineering Animation, Master Academic Studies | | |
| 18. | A116DS | Moder repres | n technique entation | s of the geometric space | | (A00) Arch (GI0) Geo Studies | hitecture, Specialised Academic Studies desy and Geomatics, Specialised Academic | | |
| 19. | A118SB | Geom | etric theorie | s in architectural structure | es' generation | (A00) Arch | nitecture, Specialised Academic Studies | | |
| 20. | AD0001 | Digital | Design in A | Architecture and Urban Pla | anning | (AD0) Dig Architectur | ital Techniques, Design and Production in e and Urban Planning, Master Academic Studies | | |
| 21. | AD0002 | Archite | ectural Visu | alization | | (AD0) Dig Architectur | ital Techniques, Design and Production in e and Urban Planning, Master Academic Studies | | |
| 22. | AD0004 | Gener | ative desigr | in architecture and urbar | nism | (AD0) Dig Architectur | ital Techniques, Design and Production in e and Urban Planning, Master Academic Studies | | |
| 23. | AD0011 | Modeli | ng Based o | n Perspective Images | | (AD0) Digi Architectur | ital Techniques, Design and Production in e and Urban Planning, Master Academic Studies | | |
| 24. | AD0012 | Dynam | nic Analysis | and Simulation in Archite | ecture | (AD0) Dig Architectur | ital Techniques, Design and Production in e and Urban Planning, Master Academic Studies | | |
| 25. | A116B | Geom | etric Theorie ation | es in Architectural Structur | res' | (A00) Arch | nitecture, Doctoral Academic Studies | | |



| UNIVERSITY | OF | NOVI | SAD |
|------------|----|------|-----|
|------------|----|------|-----|



Study Programme Accreditation

MASTER ACADEMIC STUDIES



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



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Engineering Animation

| Name and last name: | | | | | Suvajdžin Rakić B. Zorica | | | |
|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------|----------------------------------------------------------|--------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--|
| Acad | emic title: | | | | Assistant Professor | | | |
| Name of the institution where the teacher works full time and | | | Faculty of Technical Sciences - Novi Sad | | | | | |
| starti | ng date: | | | | 01.12.1998 | | | |
| Scier | ntific or art f | ield: | | | Applied Comp | Applied Computer Science and Informatics | | |
| Acad | emic caries | er | Year | Institution | | | Field | |
| Acad | emic title e | lection: | 2008 | Faculty of Technical Scie | ences - Novi Sa | ad | Applied Computer Science and Informatics | |
| PhD | thesis | | 2008 | Faculty of Technical Scie | ences - Novi Sa | ad | Computer Science | |
| Magi | ster thesis | | 2000 | Faculty of Technical Scie | ences - Novi Sa | ad | Applied Computer Science and Informatics | |
| Bach | elor's thesis | S | 1998 | Faculty of Technical Scie | ences - Novi Sa | ad | Applied Computer Science and Informatics | |
| List c | of courses b | eing he | ld by the tea | acher in the accredited stu | idy programme | S | | |
| | ID | Course | e name | | | Study pro | gramme name, study type | |
| 1. | E225 | Opera | ting System | IS | | (E20) Con Academic | nputing and Control Engineering, Undergraduate Studies | |
| | | - | 3 - , | - | | (ES0) Pov Academic | ver Software Engineering, Undergraduate Studies | |
| | | | | | | (E20) Con Academic | nputing and Control Engineering, Undergraduate Studies | |
| 2. | E234 | Compilers | | | | (ES0) Pov Academic | ver Software Engineering, Undergraduate Studies | |
| | | | | | | (MR0) Measurement and Control Engineering, Undergraduate Academic Studies | | |
| 2 | | | Operating Systems and Compatitive Programming | | | (MR0) Measurement and Control Engineering, Undergraduate Academic Studies | | |
| з. | EESUI | Operating Systems and Competitive Programming | | | Inning | (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies | | |
| | | | | | | (F10) Engineering Animation, Undergraduate Academic Studies | | |
| 4. | H207 | Progra | mming and | Programming Languages | 6 | (H00) Mechatronics, Undergraduate Academic Studies | | |
| | | | | | | (S01) Pos Undergrad | tal Traffic and Telecommunications, uate Academic Studies | |
| 5. | ISIT12 | Osnov | e informaci | onih sistema | | (SII) Softw Undergrad | vare and Information Technologies (Inđija), uate Professional Studies | |
| 6. | ISIT22 | Osnov | e baza pod | ataka | | (SII) Softw Undergrad | vare and Information Technologies (Inđija), uate Professional Studies | |
| 7. | SE0034 | Compi | lers | | | (SE0) Sof Undergrad | tware Engineering and Information Technologies, uate Academic Studies | |
| | | | | | | (E20) Con Academic | nputing and Control Engineering, Master Studies | |
| 8 | E2505 | Multim | edia Syster | ms | | (ES0) Pov Studies | ver Software Engineering, Master Academic | |
| 0. | 22000 | manan | | | | (F20) Eng | ineering Animation, Master Academic Studies | |
| | | | | | | (SE0) Sof Master Aca | tware Engineering and Information Technologies, ademic Studies | |
| 9. | F402 | Electro | onic Publish | ing | | (F00) Gra Studies | phic Engineering and Design, Master Academic | |
| 10. | DRNI08 | Select | ed Topics ir | n Information Systems | | (E20) Con Academic | nputing and Control Engineering, Doctoral Studies | |
| Rep | oresentative | reffere | nces (minin | num 5, not more than 10) | | | | |
| 1. | Rakić P., program 285, ISSI | Milašin for geor N 0965- | ović D., Živa netric nonlir 9978 | anov Ž., Suvajdžin Rakić Z near analysis: A hybrid ap | Z., Nikolić M., F proach, Advan | lajduković N ces in Engin | A.: MPI–CUDA parallelization of a finite-strip leering Software, 2011, Vol. 42, No 5, pp. 273- | |
| 2. | Zorica Su Informatio | uvajdžin on Syste | , Miroslav ⊢ ems, Volum | lajduković, A Structure Ed e 3, Number 1, Beograd, j | itor for the Pro- jun 2006., pp 6 | gram Comp 5-76 | osing Assistant, Computer Science and | |
| 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 | | | | | ented progra | am editing - habit or necessity, Novi Sad Journal | |

| HAS STUDIO | | UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 | | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------|---------------------------------------|------------------------------------------------------------|----------------------|--|--|
| | | Study Programme Accreditation | | | | | | |
| 6 | LANTEN | MASTER ACADEMIC STUDIES | | | Engineering Animation | HOP. | | |
| Rep | presentative re | efferences (minimum 5, not more th | an 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 | | | | | | a: Novi Sad (: 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. | 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 F | Rakić Z., Rakić P.: Computers and | Education, 1. VIPSI, N | epoznato, 3-4 Ap | ril, 2009, ISBN 86-7466-117 | 7-3 | | |
| 8. | Zorica Suva Conference | ajdžin, Miroslav Hajduković, Progra 2006, Brooklyn NY, April 2006, ab | m Composing Assistar stract+5 pages (CD-R | nt For Novice Pro OM) | ogrammers, The ASEE Mid-, | Atlantic Spring | | |
| 9. | Zorica Suva Conference | ajdžin, Miroslav Hajduković, Towarc on Programming Languages and (| ls Program Composing Compilers, PLC"05, La | g Assistants, Prod s Vegas, Nevada | ceedings of the 2005 Interna , USA, jun 2005, pp 142-14 | itional 17 | | |
| 10. | Rakić P., Ži Network Ap | ivanov Ž., Suvajdžin Rakić Z., Striče pplications, 9. International Symposi | ević L., Hajduković M.: ium Interdisciplinary R | Characteristics of egional Research | of Operating System for Wir - ISIRR, Novi Sad, , pp. 50 | eless Sensor -50 | | |
| Sur | nmary data fo | or teacher's scientific or art and profe | essional activity: | | | | | |
| Quot | ation total : | | 0 | | | | | |
| Tota | of SCI(SSCI) |) list papers : | 0 | - | - | | | |
| Curre | ent projects : | | Domestic : | 0 | International : | 0 | | |



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Engineering Animation

| Name and last name: | | | | | Šiđanin S. Predrag | | | | |
|---------------------|-----------------|--------------------------------------------|-------------------|--------------------------------------------------|------------------------------------------|---------------------------|--------------------------------------------------------------------------------------------|--|--|
| Acad | emic title: | | | | Full Professo | r | | | |
| Nam | e of the inst | titution v | where the te | eacher works full time and | Faculty of Technical Sciences - Novi Sad | | | | |
| starti | ng date: | | | | 01.10.2006 | | | | |
| Scier | ntific or art f | ield: | | | Geometric Sp | ace Theory | and Interpretation in Architecture and Urbanism | | |
| Acad | emic cariee | er | Year | Institution | | | Field | | |
| Acad | emic title el | lection: | 2010 | Faculty of Technical Sci | ences - Novi S | ad | Geometric Space Theory and Interpretation in Architecture and Urbanism | | |
| PhD | thesis | | 2001 | Faculty of Architecture, I Technology - Delft | Delft University | of | Architecture | | |
| Magi | ster thesis | | 1995 | Faculty of Architecture, I Technology - Delft | Delft University | of | Architecture | | |
| Bach | elor's thesis | S | 1981 | Faculty of Architecture - | Beograd | | Architecture | | |
| List c | of courses b | eing he | Id by the tea | acher in the accredited stu | udy programme | s | | | |
| | ID | Course | e name | | | Study pro | gramme name, study type | | |
| 1. | A254 | Preser Space | ntation Tech | nniques of Architectural ar | nd Urban | (A00) Arcl | nitecture, Undergraduate Academic Studies | | |
| 2. | A332 | Model | ing | | | (A00) Arcl | nitecture, Undergraduate Academic Studies | | |
| 3. | IA015 | Applic | ation of Eng | gineering Animation | | (F10) Eng Studies | ineering Animation, Undergraduate Academic | | |
| 4. | IGB052 | Engine | eering Anim | ation and Other Media | | (F10) Eng Studies | ineering Animation, Undergraduate Academic | | |
| 5. | A342 | Archite | ectural repre | esentations 1 - basic level | | (A00) Arcl | nitecture, Undergraduate Academic Studies | | |
| 6. | A342S | Archite | ectural repre | esentations 1 - Advanced | level | (A00) Arcl | nitecture, Undergraduate Academic Studies | | |
| 7. | A365 | Archite | ectural repre | esentations 2 | | (A00) Arcl | nitecture, Undergraduate Academic Studies | | |
| 8. | A701 | Introdu | uction to Pe | rformance Studies | | (A00) Arcl | nitecture, Undergraduate Academic Studies | | |
| 9. | ASI23B | Multimedia | | | | (AS0) Sce Undergrad | nic Architecture, Technique and Design, uate Academic Studies | | |
| 10. | ASI272 | Perfor | mance | | | (AS0) Sce Undergrad | nic Architecture, Technique and Design, uate Academic Studies | | |
| 11. | ASI273 | New M | ledia | | | (AS0) Sce Undergrad | nic Architecture, Technique and Design, uate Academic Studies | | |
| 12. | ASI283 | Graph | ic design | | | (AS0) Sce Undergrad | enic Architecture, Technique and Design, uate Academic Studies | | |
| 13. | ASI332 | Arts M | anagement | and Cultural Policy | | (AS0) Sce Undergrad | nic Architecture, Technique and Design, uate Academic Studies | | |
| 14. | ASI333 | New te | echnologies | in art and culture | | (AS0) Sce Undergrad | nic Architecture, Technique and Design, uate Academic Studies | | |
| 15. | ASO1 | Introdu Desigr | uction to Sc n | ene Architecture, Techniq | ue and | (AS0) Sce Undergrad | nic Architecture, Technique and Design, uate Academic Studies | | |
| 16. | ASO16 | Scale | Modeling in | Stage Design | | (AS0) Sce Undergrad | nic Architecture, Technique and Design, uate Academic Studies | | |
| 17. | ASO22 | Preser | ntation Tech | nniques in Stage Design | | (AS0) Sce Undergrad | nic Architecture, Technique and Design, uate Academic Studies | | |
| 18. | ASO30 | Scene | Technique | 4 | | (AS0) Sce Undergrad | enic Architecture, Technique and Design, uate Academic Studies | | |
| 19. | ASO31 | Sceno | graphy 4 | | | (AS0) Sce Undergrad | enic Architecture, Technique and Design, uate Academic Studies | | |
| 20. | ASO40 | Pheno | menology c | of Scene Design | | (AS0) Sce Undergrad | enic Architecture, Technique and Design, uate Academic Studies | | |
| 21. | A291 | Repre | sentation of | a Wider Physical Environ | iment | (AD0) Dig Architectur | ital Techniques, Design and Production in e and Urban Planning, Master Academic Studies | | |
| 22. | IA254 | Preser Space | ntation Tech | nniques of Architectural ar | nd Urban | (F20) Eng | ineering Animation, Master Academic Studies | | |
| 23. | RPR009 | GIS ar | nd Regional | Development | | (RPR) Re Master Aca | gional Development Planning and Management, ademic Studies | | |
| 24. | A116CS | Scenic function of architecture and a city | | | selected | (A00) Arcl | nitecture, Specialised Academic Studies | | |



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES



| | | | alled study programme | | | | | |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|------------------------------------------|---------------------------------------------------------|-----------------------------|--|--|
| | ID | Course name Study programme name, study type | | | | | | |
| 25. | AD0001 | Digital Design in Architecture and U | ban Planning | (AD0) Digital Te Architecture and | chniques, Design and Produ Urban Planning, Master Ac | uction in ademic Studies | | |
| 26. | AD0002 | 02 Architectural Visualization (AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, Master Academic Studies | | | | | | |
| 27. | AD0004 | Generative design in architecture an | d urbanism | (AD0) Digital Te Architecture and | chniques, Design and Produ Urban Planning, Master Ac | uction in ademic Studies | | |
| 28. | ASM1 | Scene architecture | | (AS0) Scenic Ar Studies | chitecture and Design, Mas | er Academic | | |
| 29. | ASM4 | Project Management in scene archit | ecture and design | (AS0) Scenic Ar Studies | chitecture and Design, Mas | er Academic | | |
| 30. | AUP071 | Representation of a Wider Physical | Environment | (AH0) Architectu | re, Master Academic Studie | S | | |
| | | Scenic function of architecture and a | a city - selected | (A00) Architectu | ire, Doctoral Academic Stud | ies | | |
| 31. | A116D | chapters | , | (AS0) Scenic De | esign, Doctoral Academic St | udies | | |
| Rep | oresentative | e refferences (minimum 5, not more th | an 10) | | | | | |
| 1. | 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. | 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. | "Electron | ic culture in Yugoslavia", zbornik rado | va - UNESCO-v simpo | ozij "Synthesis", C |)fenbah, Zapadna Nemačka | , 1987. R54 | | |
| 4. | "Technoo Strazbur, | culture in Yugoslavia", knjiga radova s Francuska, 1989. R54 | a kongresa "Technocu | Ilture in Europe", | Documents of the Council of | Europe, | | |
| 5. | "Historica Holandija | al overview of computer art in Yugosla a, 1990. R54 | via", knjiga apstrakata | Second Sympos | ia of Electronic Art, SISEA, H | Ironingen, | | |
| 6. | "The Delf J. Kraak | t University of Technologys Campus I i G. J. F. Smets, knjiga radova sa JEC | nformation System ac , Hag, Holandija, 199 | cessed by GIS ar 5. R54 | nd Virtual Reality technology | ", P. Šiđanin, M. | | |
| 7. | "Virtual R 1st Confe | teality, the new 3D interface for Geogrammer on Spatial Multimedia and Virtu | raphical Information Sy ual Reality, Lisabon, P | /stem", M. J. Kraa ortugal, 1995. R5 | ak, G. Smets i P. Šiđanin, su 4 | knjizi radova sa | | |
| 8. | "A compu Design a | iter simulation model of TU district of nd Decision Support Systems in Archi | Delft with use of the G itecture and Urban Pla | IS and VR", knjiga nning, Spa, Belgij | a radova sa 3re Internationa ja, 1996. R54 | Conference on | | |
| 9. | "GIS and | VR - an integration", knjiga radova sa | EUROMEDIA 96 kon | gresa, London, E | ngleska, 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 | | | | | | | |
| Sur | nmary data | for teacher's scientific or art and profe | essional activity: | | | | | |
| Quot | ation total : | | 48 | | | | | |
| Tota | of SCI(SS | CI) list papers : | 5 | | | | | |
| Curre | rent projects : Domestic : 1 International : 0 | | | | | | | |



Study Programme Accreditation



MASTER ACADEMIC STUDIES

Enginee

| Name and last name: | | | | | Teofanov Đ. Ljiljana | | | |
|---------------------|-----------------|---------------|---------------|------------------------------|------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Acad | lemic title: | | | | Assistant Professor | | | |
| Nam | e of the inst | itution w | where the te | acher works full time and | Faculty of Technical Sciences - Novi Sad | | | |
| starti | ng date: | | | | 18.12.1995 | | | |
| Scier | ntific or art f | ield: | | | Mathematics | | | |
| Acad | lemic caries | er | Year | Institution | | | Field | |
| Acad | lemic title e | ection: | 2009 | Faculty of Technical Science | ences - Novi Sa | ad | Mathematics | |
| PhD | thesis | | 2008 | Faculty of Sciences - No | ovi Sad | | Mathematical Sciences | |
| Magi | ster thesis | | 2000 | Faculty of Sciences - No | ovi Sad | | Mathematical Sciences | |
| Bach | elor's thesis | S | 1994 | Faculty of Sciences - No | ovi Sad | | Mathematical Sciences | |
| List o | of courses b | eing he | ld by the tea | acher in the accredited stu | udy programme | s | | |
| | ID | Course | e name | | | Study pro | ogramme name, study type | |
| 1. | A101 | Mathe | matics | | | (A00) Arch | hitecture, Undergraduate Academic Studies | |
| 2. | EE204 | Select | ed Chapters | s in Mathematics | | (MR0) Me Undergrad | asurement and Control Engineering, uate Academic Studies | |
| | | | - | | | (E10) Pow Engineerin | er, Electronic and Telecommunication g, Undergraduate Academic Studies | |
| 3. | GG00 | Mathe | matical Met | hods 1 | | (G00) Civi | il Engineering, Undergraduate Academic Studies | |
| 4. | GI101 | Algebr | а | | | (GI0) Geo Studies | desy and Geomatics, Undergraduate Academic | |
| 5. | IAM001 | Mathe | matical Sha | pe Modeling for Compute | r Animation | (F10) Eng Studies | ineering Animation, Undergraduate Academic | |
| 6. | M102 | Mathematics 1 | | | | (M20) Mee Undergrad (M30) Ene Academic (M40) Tec Undergrad (P00) Proo Studies | chanization and Construction Engineering, luate Academic Studies ergy and Process Engineering, Undergraduate Studies chnical Mechanics and Technical Design, luate Academic Studies duction Engineering, Undergraduate Academic | |
| | | | | | | (M20) Mee Undergrad | chanization and Construction Engineering, luate Academic Studies | |
| 7 | M106 | Mathe | matics 2 | | | (M30) Ene Academic | ergy and Process Engineering, Undergraduate Studies | |
| | | | | | | (M40) Teo Undergrad | chnical Mechanics and Technical Design, uate Academic Studies | |
| | | | | | | (P00)Proo Studies | duction Engineering, Undergraduate Academic | |
| 8. | E101A | Discre | te Mathema | tics | | (E10) Pow Engineerin | ver, Electronic and Telecommunication g, Undergraduate Academic Studies | |
| 9. | IM1523 | Discre | te Mathema | tics | | (M30) Ene Academic (I20) Engir Studies | ergy and Process Engineering, Undergraduate Studies neering Management, Undergraduate Academic | |
| 10. | P216 | Numer | ical Analysi | s | | (P00)Proo Studies | duction Engineering, Undergraduate Academic | |
| 11. | SE0009 | Discre | te Mathema | itics | | (SE0) Soft Undergrad (SEL) Soft | tware Engineering and Information Technologies, luate Academic Studies tware Engineering and Information Technologies - | |
| | | | | | | Loznica, U (E11) Pow Engineerin | ndergraduate Academic Studies ver, Electronic and Telecommunication Ig, Specialised Academic Studies | |
| 12. | DZ01MS | Select | ed Chapters | s in Mathematics | | (I12) Indus (I22) Engi Studies | strial Engineering, Specialised Academic Studies neering Management, Specialised Academic | |
| | | | | | | (Z00) Env Studies | ironmental Engineering, Specialised Academic | |



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES



| | | Course name | | Study programme name, stu | dy type | | |
|-------|--------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------|-----------------------------------------------------------------------------------------|------------------|-------------------|--|
| | | | | | | | |
| 13. | IA022 | Numerical Optimization | | (F20) Engineering Animation, | Master Acade | mic Studies | |
| 14. | D0M48 | Numerical Methods for Solving Differ | rential Equations | (OM1) Mathematics in Engine Studies | eering, Doctora | al Academic | |
| | | | | (E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies | | | |
| | | | | (E20) Computing and Control Academic Studies | Engineering, | Doctoral | |
| | | | | (F00) Graphic Engineering ar Studies | nd Design, Doo | toral Academic | |
| | | | | (F20) Engineering Animation, | Doctoral Acad | demic Studies | |
| | | | | (G00) Civil Engineering, Doct | oral Academic | Studies | |
| | | | | (GI0) Geodesy and Geomatic | s, Doctoral Ac | ademic Studies | |
| 15 | D701M | Selected Chapters in Mathematics | | (H00) Mechatronics, Doctoral | Academic Stu | idies | |
| 13. | DZUTIVI | Selected Chapters in Mathematics | | (120) Industrial Engineering / Doctoral Academic Studies | Engineering M | anagement, | |
| | | | | (M00) Mechanical Engineerin | g, Doctoral Ac | ademic Studies | |
| | | | | (M40) Technical Mechanics, | Doctoral Acade | emic Studies | |
| | | | | (OM1) Mathematics in Engine Studies | eering, Doctora | al Academic | |
| | | | | (S00) Traffic Engineering, Do | ctoral Academ | ic Studies | |
| | | | | (Z00) Environmental Enginee Studies | ring, Doctoral | Academic | |
| | | | | (Z01) Safety at Work, Doctora | al Academic St | tudies | |
| Rep | oresentative | e refferences (minimum 5, not more the | an 10) | | | | |
| 1. | Surla, K., Applied N | , Teofanov, Lj., Uzelac, A Robust Lay Nathematics and Computation,(2009), | er-Resolving Spline Co 208(1): 76-89 | llocation Method for a Convec | tion-Diffusion I | Problem, | |
| 2. | Teofanov Comput. | v, Lj., Roos, HG, An elliptic singularly Appl. Math. Vol. 212, 2008, 374-389 | / perturbed problem w | h two parameters II: robust fir | iite element so | lution, J. | |
| 3. | Teofanov Appl. Ma | v, Lj., Roos, HG, An elliptic singularly th. Vol. 206, 2007, 1082-1097 | / perturbed problem w | h two parameters I: solution d | ecomposition, | J. Comput. | |
| 4. | Surla, K., problem, | , Uzelac, Z., Teofanov, Lj., The discret Math. Comput. Simul. 2009, Vol. 79, I | e minimum principle fo No 8, pp.2490-2505 | quadratic spline discretizatio | n of a singularl | y perturbed | |
| 5. | Teofanov No. 4, 20 | , Lj., Zarin, H., Superconvergence for 09, 743-765 | two-parameter singula | ly perturbed problem, BIT Nu | merical Mather | matics, Vol. 49, | |
| 6. | Vulanovi Numer. A | ć, R., Teofanov, Lj., A uniform numeric Ngor. 54, 2010, 431-444 | al method for semiline | ar reaction-difusion problems | with a boundar | ry turning point, | |
| 7. | Teofanov Math., Vo | v, Lj., Uzelac, Z., Family of Quadratic : bl. 84, No. 1, 2007, 33-50 | Spline Difference Sche | mes for a Convection-Diffusion | on Problem, Int | . J. Comput. | |
| 8. | Surla, K., Sad J. M | , Uzelac, Z., Teofanov, Lj., On collocat ath, Vol. 31, No. 1, 2001, 125-132 | ion methods for singu | r perturbation problems of co | nvection-diffus | ion type, Novi | |
| 9. | Surla, K., 2000, 17 | , Uzelac, Z., Pavlović, Lj., On collocati 3-183 | ion methods for singul | r perturbation problems, Nov | i Sad J. Math., | Vol. 30, No. 3, | |
| 10. | Čomić, I. | , Pavlović, Lj., Funkcije više promenljiv | /ih, Fakultet tehničkih | auka, Novi Sad, 2000, 95 str. | | | |
| Sur | nmary data | for teacher's scientific or art and profe | essional activity: | | | | |
| Quot | ation total : | | 12 | | | | |
| Total | of SCI(SS | CI) list papers : | 7 | | | | |
| Curre | urrent projects : Domestic : 1 International : 0 | | | | | | |



Study Programme Accreditation MASTER ACADEMIC STUDIES



Science, arts and professional qualifications

| Name and last name: | | | | | Tepavčević B. Bojan | | | | |
|---------------------|-----------------|----------------------------------------------|---------------|-----------------------------|---------------------|---------------------------|---------------------------------------------------------------------------------------------|--|--|
| Acad | emic title: | | | | Assistant Professor | | | | |
| Nam | e of the inst | titution v | vhere the te | acher works full time and | Faculty of Tee | chnical Scie | nces - Novi Sad | | |
| startı | ng date: | | | | 01.01.2004 | | | | |
| Scier | ntific or art f | ield: | X | 1. 00. 0 | Geometric Sp | ace Theory | and Interpretation in Architecture and Urbanism | | |
| Acad | emic caries | er | Year | Institution | | | | | |
| Acad | emic title el | lection: | 2011 | Faculty of Technical Scie | ences - Novi Sa | ad | Geometric Space Theory and Interpretation in Architecture and Urbanism | | |
| PhD | thesis | | 2010 | Faculty of Technical Scie | ences - Novi Sa | ad | Geometric Space Theory and Interpretation in Architecture and Urbanism | | |
| Magi | ster thesis | | 2007 | Faculty of Technical Scie | ences - Novi Sa | ad | Architectural-Urbanistic Planning, Design and Theory | | |
| Bach | elor's thesis | S | 2003 | Faculty of Technical Scie | ences - Novi Sa | ad | Architectural-Urbanistic Planning, Design and Theory | | |
| List c | of courses b | eing he | ld by the tea | acher in the accredited stu | idy programme | S | | | |
| | ID | Course | e name | | | Study pro | gramme name, study type | | |
| 1. | A254 | Preser Space | ntation Tech | nniques of Architectural an | nd Urban | (A00) Arch | nitecture, Undergraduate Academic Studies | | |
| 2. | A332 | Model | ing | | | (A00) Arch | nitecture, Undergraduate Academic Studies | | |
| 3. | IA007 | Geom | etry and Vis | sualization of 3D Space | | (F10) Eng Studies | ineering Animation, Undergraduate Academic | | |
| 4. | IA015 | Applic | ation of Eng | ineering Animation | | (F10) Eng Studies | ineering Animation, Undergraduate Academic | | |
| 5. | IGB052 | Engineering Animation and Other Media | | | | (F10) Eng Studies | ineering Animation, Undergraduate Academic | | |
| 6. | A342 | Architectural representations 1 - basic leve | | | | (A00) Arch | nitecture, Undergraduate Academic Studies | | |
| 7. | A365 | Architectural representations 2 | | | | (A00) Arcl | nitecture, Undergraduate Academic Studies | | |
| 8. | A377 | Architectural representations 3 | | | | (A00) Arch | nitecture, Undergraduate Academic Studies | | |
| 9. | ASI23A | Digital | Design | | | (AS0) Sce Undergrad | nic Architecture, Technique and Design, uate Academic Studies | | |
| 10. | ASO12 | Scene | Architectur | e 1 | | (AS0) Sce Undergrad | nic Architecture, Technique and Design, uate Academic Studies | | |
| 11. | ASO16 | Scale | Modeling in | Stage Design | | (AS0) Sce Undergrad | nic Architecture, Technique and Design, uate Academic Studies | | |
| 12. | ASO22 | Preser | ntation Tech | nniques in Stage Design | | (AS0) Sce Undergrad | nic Architecture, Technique and Design, uate Academic Studies | | |
| 13. | A291 | Repre | sentation of | a Wider Physical Environ | ment | (AD0) Dig Architectur | ital Techniques, Design and Production in e and Urban Planning, Master Academic Studies | | |
| 14. | IA254 | Preser Space | ntation Tech | nniques of Architectural an | nd Urban | (F20) Eng | ineering Animation, Master Academic Studies | | |
| 15. | RPR009 | GIS ar | nd Regional | Development | | (RPR) Re Master Aca | gional Development Planning and Management, ademic Studies | | |
| 16. | AD0001 | Digital | Design in A | Architecture and Urban Pla | anning | (AD0) Dig Architectur | ital Techniques, Design and Production in e and Urban Planning, Master Academic Studies | | |
| 17. | AD0002 | Archite | ectural Visu | alization | | (AD0) Dig Architectur | ital Techniques, Design and Production in e and Urban Planning, Master Academic Studies | | |
| 18. | AD0003 | Digital | fabrication | in Architecture | | (AD0) Dig Architectur | ital Techniques, Design and Production in re and Urban Planning, Master Academic Studies | | |
| 19. | AD0005 | Param | etric Desigr | n in Architecture and Urba | anism | (AD0) Dig Architectur | ital Techniques, Design and Production in e and Urban Planning, Master Academic Studies | | |
| 20. | AD0007 | Interac | ctive system | in architecture | | (AD0) Dig Architectur | ital Techniques, Design and Production in e and Urban Planning, Master Academic Studies | | |
| 21. | AD0011 | Model | ing Based o | on Perspective Images | | (AD0) Dig Architectur | ital Techniques, Design and Production in e and Urban Planning, Master Academic Studies | | |
| 22. | AD0012 | Dynan | nic Analysis | and Simulation in Archite | cture | (AD0) Dig Architectur | ital Techniques, Design and Production in e and Urban Planning, Master Academic Studies | | |
| 23. | AD0013 | Theory | of curves a | and surfaces | | (AD0) Dig Architectur | ital Techniques, Design and Production in e and Urban Planning, Master Academic Studies | | |







Study Programme Accreditation

MASTER ACADEMIC STUDIES

| List of sources hain | a hald by the te | achar in the ace | adited atudu | nrogrammo |
|----------------------|------------------|-------------------|--------------|------------|
| List of courses bein | g neid by the te | acher in the acci | edited study | programmes |

| LISU | or courses i | being held by the teacher in the accred | alled sludy programme | - | | | |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------|--------------------------------------------------------|----------------|--|
| | ID | Course name | | Study program | me 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) Architectu | re, Master Academic Studie | s | |
| Rep | oresentative | e refferences (minimum 5, not more th | an 10) | | | | |
| 1. | Stojakovi Novi Opis | ć V., Tepavčević B., Image-based mo s Sad, Journal of Cultural Heritage (IS | deling approach in cre DN 1296-2074) ISSN: | eating 3D morpho 1296-2074, Vol. | genetic reconstruction of Lib 12,str. 105-110 | erty Square in | |
| 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. | 3. Jovanović M., Tepavčević B., Škrinjar L., 2012 Influence of Origami Folding Patterns and Spatial Developability in Contemporary Architectural Design, International Scientific Conference moNGeometrija, str.517-529. Novi Sad, Srbija | | | | | | |
| 4. | 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 Novi Sad | Ranko; Atanacković Teodor; Spasić I , Novi Sad: Danube Comission and U | Dragan; Novaković Bra niversity of Novi Sad, | anislava: New Cha 2004, str. 1- 157. | allenges and Opportunities f | or the City of | |
| 7. | Šiđanin F str. 190. | P., Tepavčević B.,Maketarstvo za stud | ente arhitekture, 2010 |), Fakultet tehničk | kih nauka, Novi Sad 2010., F | TN Novi Sad, | |
| 8. | Stojakovi and Rese | ć V., Tepavčević B., 2011. Single Ima earch in Computer Aided Architectural | age Ambiguity and Adj Design in Europe – e | justment of Cultur CAADe, str.99-10 | al Heritage Modeling Approa 6. Ljubljana, Slovenija | ach, Education | |
| 9. | Tepavčev between | vić B.,Stojaković V., 2012. Mathemati Architecture and Mathematics, Milanc | cal Concepts of Space o, Italija | e in Contemporar | y Architecture, Nexus 2012 F | Relationship | |
| 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 | | | | | | |
| Sur | nmary data | for teacher's scientific or art and profe | essional activity: | | | | |
| Quot | ation total : | | 3 | | | | |
| Total | of SCI(SS | CI) list papers : | 1 | i | | | |
| Curre | ent projects | : | Domestic : | 1 | International : | 0 | |



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

Study Programme Accreditation



MASTER ACADEMIC STUDIES

Engineering Animation

| Name and last name: | | | | | Lizelac S. Zorica | | | | |
|---------------------|-------------------------------|-------------------------------------------|---------------|-----------------------------|------------------------------------------|------------------------------------------------------------|------------------------------------------------------------------------------------------|--|--|
| Acad | e anu idst fi Iemic title: | and. | | | Eull Professor | | | | |
| Nor | | itution | whore the to | ophor works full time and | Faculty of Technical Sciences - Novi Sad | | | | |
| starti | na date: | ILULION V | vnere the te | acher works full time and | 01 10 1975 | | | | |
| Scier | ntific or art f | ield: | | | Mathematics | | | | |
| Acad | lemic carie | er | Year | Institution | manomatioo | | Field | | |
| Acad | lemic title el | ection [.] | 2000 | Faculty of Technical Sci | ences - Novi Si | ad | Mathematics | | |
| PhD | thesis | | 1989 | Faculty of Sciences - No | ovi Sad | | Mathematical Sciences | | |
| Magi | ster thesis | | 1980 | Faculty of Mathematics | - Beograd | | Mathematical Sciences | | |
| Bach | elor's thesis | 3 | 1974 | Faculty of Sciences - No | vi Sad | | Mathematical Sciences | | |
| List o | of courses b | eing he | ld by the tea | acher in the accredited stu | udy programme | es | | | |
| | ID | Course | e name | | | Study pro | ogramme name, study type | | |
| 1. | GG00 | Mathe | matical Met | hods 1 | | (G00) Civi | il Engineering, Undergraduate Academic Studies | | |
| 2. | GG05 | Mathe | matical Met | hods 2 | | (G00) Civi | il Engineering, Undergraduate Academic Studies | | |
| 3. | II1052 | Mathe | matics 2 | | | (I10) Indu Studies | strial Engineering, Undergraduate Academic | | |
| 4. | IM1002 | Mathematics 1 | | | | (I10) Indu Studies (I20) Engi Studies | strial Engineering, Undergraduate Academic neering Management, Undergraduate Academic | | |
| 5. | IM1006 | Mathematics 2 | | | | (I20) Engi Studies | Engineering Management, Undergraduate Academic dies | | |
| 6. | IM1120 | Knowledge management | | | | (I20) Engir Studies | (I20) Engineering Management, Undergraduate Academic Studies | | |
| 7. | 0M518 | Numer | ical Solutio | ns of Differential Equation | IS | (OM1) Mathematics in Engineering, Master Academic Studies | | | |
| 8. | 0ML518 | Numer | ical Solutio | n of Differential Equations | ; | (OM1) Ma Studies | thematics in Engineering, Master Academic | | |
| | | | | | | (E11) Pow Engineerin | ver, Electronic and Telecommunication ng, Specialised Academic Studies | | |
| | | | | | | (112) Indu | strial Engineering, Specialised Academic Studies | | |
| 9. | DZ01MS | Selected Chapters in Mathematics | | | | (I22) Engi Studies | neering Management, Specialised Academic | | |
| | | | | | | (Z00) Env Studies | ironmental Engineering, Specialised Academic | | |
| 10 | | Knowl | | | | (I20) Engi Studies | neering Management, Specialised Professional | | |
| 10. | | KIIOWI6 | | лпу | | (IB0) Engi Profession | ineering Management - MBA, Specialised al Studies | | |
| 11. | MBA309 | Humar | n Resource | Management in Knowled | ge Economy | (IB0) Engi Profession | ineering Management - MBA, Specialised al Studies | | |
| 12. | OIR010 | Mathe | matics for E | Business and Finance | | (I20) Engi Studies | neering Management, Specialised Professional | | |
| 13. | IA022 | Numer | ical Optimiz | zation | | (F20) Eng | ineering Animation, Master Academic Studies | | |
| 14. | D0M16 | Differe | ntial Equati | ons | | (OM1) Ma Studies | thematics in Engineering, Doctoral Academic | | |
| 15. | D0M18 | Numer | ical Analys | is | | (OM1) Ma Studies | M1) Mathematics in Engineering, Doctoral Academic dies | | |
| 16. | DM322 | Numeric Methods in Power Machines and Pla | | | Plants | (M00) Me | echanical Engineering, Doctoral Academic Studies | | |

| UNIVERSITY | OF | NOVI | SAD |
|------------|----|------|-----|
|------------|----|------|-----|



17

1

2

3.

4

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

Study Programme Accreditation



Uzelac, Z., Surla, K., Discretization of the Semilinear Singularly Perturbed Problem, Nonlinear Analysis: Theory, Methods and 5 Applications, Vol.30, No.8, (1997), 4741-4747 Sekulic, D., Uzelac, Z., Edeskuty, F., J., Entropy generation in a high temperaturesuperconducting current lead, Cryogenics, Vol ~

| 0. | 32(1992) 1154-1161 |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7. | Cvetićanin, L., Uzelac, Z., Longitudinal Vibration of Rod with Non-Linear Constitutive Equation, Journal of Vibration and Control,5, (1999), 827-849 |
| 8. | Teofanov, Lj., Uzelac, Z., Family of Quadratic Spline Difference Schemes for a Convection-Diffusion Problem, International Journal of Computer Mathematics, Vol. 84, No. 1, 2007, 33-50 |
| 9. | Z. Uzelac, L. Nešić, D. Hristić, A Contribution to Research the Caracteristics of Women Managers and a New Style of Leadedrship, Proceedings of IC-Congress, Haarlem, The Netherlands, 3-4. May 2007 |
| 10. | Dj. Ćelić, Z. Uzelac, Vrednosne mreže, Zborniki radova XIII Medjunarodna konferncija industrijski sistemi-IS05, Herceg Novi, 07- 09. septembar, 2005, 921-931 |
| Su | mmary data for teacher's scientific or art and professional activity: |

| Summary data for teacher's scientific or art and professional activity: | | | | | | | | |
|-------------------------------------------------------------------------|------------|---|-----------------|---|--|--|--|--|
| Quotation total : | 52 | | | | | | | |
| Total of SCI(SSCI) list papers : | 26 | _ | | _ | | | | |
| Current projects : | Domestic : | 1 | International : | 0 | | | | |



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Engineering Animation

| Name and last name: | | | Zlokolica M. Vladimir | | | | | | |
|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------------|----------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------|--|--|
| Academic title: | | Assistant Professor | | | | | | | |
| Name of the institution where the teacher works full time and | | Faculty of Technical Sciences - Novi Sad | | | | | | | |
| starting date: | | | 01.03.2007 | | | | | | |
| Scientific or art field: | | | | | Computer Gra | aphics | | | |
| Acad | emic carlee | er | Year | Institution | | | Field | | |
| Acad | emic title el | lection: | 2012 | Faculty of Technical Sci | ences - Novi Sad | | Computer Graphics | | |
| PhD | thesis | | 2007 | Ghent University - Gent | | Electronics and Telecommunications | | | |
| Bach | Bachelor's thesis 2001 Faculty of Technical S | | Faculty of Technical Scie | iences - Novi Sad | | Computer Engineering and Computer Communication | | | |
| Magister thesis - | | | | | Computer Engineering and Computer Communication | | | | |
| List c | of courses b | eing he | ld by the tea | acher in the accredited stu | udy programme | s | | | |
| | ID | Course name | | | | Study programme name, study type | | | |
| 1. | IA020 | Advanced Display Technologies | | | | (F10) Engineering Animation, Undergraduate Academic Studies | | | |
| 2. | IA006 | 06 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) Eng Studies | (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 | 001 Computer Vision and Graphics in Automotive Industry | | | | (F20) Engineering Animation, Doctoral Academic Studies | | | |
| 12. | AID02 | Advanced Technologies for Modelling and Visual AID02 Perception of Video and 3D Signalsin Computer Graphics | | | | (F20) Engineering Animation, Doctoral Academic Studies | | | |
| Representative refferences (minimum 5, not more than 10) | | | | | | | | | |
| 1. | 1. V. Zlokolica, S. Schulte, A. Pizurica, W. Philips, "Fuzzy logic recursive motion detection and denoising of video sequences", | | | | | | | | |
| 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. | 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 5. Optical Coherence Tomography: A Review and Evaluation", Current Medical Imaging Reviews, Vol. 4, No. 4, September 2008. | | | | | | | | |
| 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. | | | | | | | | |
| 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. | | | | | | | | |
| 9. | 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> | | | | | | | | |



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

Study Programme Accreditation



| | , | | | |
|----------------------------------|------------|---|-----------------|---|
| Quotation total : | 0 | | | |
| Total of SCI(SSCI) list papers : | 13 | | | |
| Current projects : | Domestic : | 1 | International : | 0 |



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Engineering Animation



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.



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

Study Programme Accreditation

Se and a second

MASTER ACADEMIC STUDIES

Engineering Animation

Standard 11. Quality Control

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

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.

