

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

Study Programme Accreditation



MASTER ACADEMIC STUDIES

Clean Energy Technologies

STUDY PROGRAMME ACCREDITATION MATERIAL:

CLEAN ENERGY TECHNOLOGIES

MASTER ACADEMIC STUDIES

Novi Sad 2012. Prevod sa srpskog jezika:

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- Dragana Gak
- Ličen Branislava





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Programme name	Clean Energy Technologies
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	Energy Technologies: Technical-Technological Sciences
Type of studies	Master Academic Studies
Study scope, expressed in ECTS	60
Academic degree, abbreviation	Master in Energy Technologies, M.Ener.Tech.
Study length	1
Programme implementation starting year	
Future course implementation starting year (for new programme)	2013
Number of students attending this programme	0
Planned number of students to be enrolled in this programme	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	
Web address containing programme information	http://www.ftn.uns.ac.rs



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Clean Energy Technologies

Standard 00. Introduction

MASTER ACADEMIC STUDIES

The study program of master academic studies in Clean energy technologies is the continuation of the study program of graduate studies of Clean energy technologies at the Faculty of Technical Sciences, University of Novi Sad. The incorporation of engineering and technical disciplines into the program of graduate and master academic studies of Clean energy technologies results into high multidisciplinary and interdisciplinary programs. For the purpose of programs realization one has to study the curriculum even from the aspect of electrical engineering, mechanical engineering and the fundamental disciplines of mathematics, chemistry, physics and other, getting multidisciplinary image of the study program. Master Program of Clean energy technologies should enable students to further concretize and expand their knowledge within a selected study group, that are based on comprehension of the basic principles of engineering in various fields of environment protection, acquiring additional expert knowledge for the implementation of modern technical systems, gaining ability for knowledge integration to be applied in any particular case, ensuring them to be engaged in independent research and creative work during realization of the study program.



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Standard 01. Programme Structure

MASTER ACADEMIC STUDIES

The name of the master academic study programme is Clean energy technologies. The academic degree obtained is Master in energy technologies. The structure of the programme enables the students to acquire the in-depth knowledge in the chosen area of interest, to gain the knowledge which will enable them to use professional literature, to apply the knowledge to practical professional problems as well as to continue their studies, if they decide to do so.

Admission requirements are the completion of the graduate studies worth at least 240 ECTS

Procedures for registration, ranking and enrolling of applied candidates are defined in the Regulations of student enrolment on study programmes.

Master academic study programme Clean energy technologies lasts one academic year and is evaluated with 60 ETCS credits. This study program is comprised of elective and olbigatory courses, professional praxis and master thesis.

Students can choose, in accordance with the Head of the Study programme, certain courses offered by the Faculty of Technical Sciences, University of Novi Sad, or any other university in the country or abroad, according to their affiliations and wishes, if the prerequisites for attending that course are met.

Each course lasts one term and is worth a certain number of ECTS credits where one credit is equivalent to approximately 30 hours of work (lectures, practice, preparation for examination, etc.).

Teaching is performed in the form of lectures and practical classes. The teaching process emphasizes students' independent and research work and their participation in the teaching process. During the lectures the subject matter is taught using the suitable didactic material but at the same time the students are introduced to the research trends in the given field. At the practice classes which accompany the lectures, particular practical tasks are solved and additional examples are given to further illustrate the topic. Practical classes also provide additional explanation of the topics presented at lecture classes. Practice can be auditory, laboratory, computer. Practice classes can partially be conducted in a factory or other institution.

Student's work is followed and valued according to regulations adopted at the Faculty. The number of points earned is expresses according to uniform system and reflects the students` workload.

Each course is worth a certain number of ECTS credits and the Master studies are considered to be completed after the student has fulfilled all the obligations prescribed by the study programme and has attained the minimum of 60 ECTS credits.



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Standard 02. Programme Objectives

MASTER ACADEMIC STUDIES

The purpose of the study program is to educate students for the profession of Master in energy technologies in accordance with the basic needs of society.

Study program of Clean energy technologies is designed to provide acquisition of competence and skills that are socially justified and useful. The Faculty of Technical Sciences defined master tasks and objectives for the purpose of education of highly competent staff in the field of industry, business, profession, science and engineering disciplines. The purpose of the study program of Clean energy technologies is fully consistent with the master tasks and goals of the Faculty of Technical Sciences.

The realization of such a curriculum results in education of master engineers of Clean energy technologies that have competence, comparability and competitiveness in European and world levels.



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Standard 03. Programme Goals

MASTER ACADEMIC STUDIES

The aim of the studies is to achieve competence and academic skills in the field of Clean energy technologies. Being continued to graduate, including additional fundamental scientific disciplines as well as some vocational courses in master degree, master studies enable students to develop creative skills and ability to consider issues with critical independent thinking, developing capacity for teamwork, cooperation and mastery of specific theoretical and applicative skills.

The aim of the studies is to educate a professional who possesses the necessary knowledge in basic scientific disciplines (mathematics, physics, chemistry, mechanics, thermodynamics, and other natural sciences ...), in order to form a realistic picture of the processes that occur in industrial and energy systems, as well as classic and special engineering disciplines in the field of mechanical engineering, electrical engineering, programming and applied professional disciplines regarding energy engineering, environmental projects, alternative energies, management.

One of the particular objectives, consistent with the goals of experts in education at the Faculty of Technical Sciences is raising awareness among students for the need of continued education, sustainable development and environment protection. The aim of the study program is to educate a master capable of teamwork, a master who can reveal the scientific results to experts and public, but also to form a master who is able to be engaged in research.

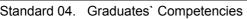


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MASTER ACADEMIC STUDIES

Clean Energy Technologies



Master students of Clean energy technologies are competent and qualified to solve complex multidisciplinary problems both theoretically and practically. Competencies include, above all, developing skills of critical and independent thinking, skills of problem analysis, solution synthesis, prediction and behavior of selected budget solutions with a clear idea of good and bad sides of the chosen solution.

Qualifications and competences that signify completion of the master academic studies are gained by the students:

1. who demonstrated theoretical knowledge and understanding in the field of Clean energy technologies, which is increased by the knowledge gained at graduate studies, being the basis for development of critical independent thinking;

2.who are able to apply knowledge for solving complex problems in the new or unknown environment;

3. who have the ability to integrate knowledge, solve complex engineering problems and to reason on the basis of information available, including considerations and responsibilities;

4. who are able to clearly and unambiguously transfer the knowledge and way of reasoning to professionals and general public;

5. who possess the ability to continue their studies in individual way

Regarding specific abilities, it is worth mentioning that when mastering the academic curriculum, a student acquires basic knowledge and understanding of all disciplines of the selected study group and ability to solve specific problems using scientific methods and procedures.

A student with master's degree in Clean energy technologies is capable to adequately define and present the results by intensive use of information and communication technologies.

A student with master's degree has an additional competency, compared to students in graduate studies, for knowledge application in practice and monitoring and implementation of innovations in the profession.

Students are trained to design, organize and manage clean energy technologies. During education, a student acquires the ability to independently plan and conduct experiments of statistical data processing and to formulate and make the appropriate conclusions.

A student with master's degree in Clean energy technologies acquires special competence to sustainably use and protect the natural resources of the Republic of Serbia in accordance with the principles of sustainable development.



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Standard 05. Curriculum

MASTER ACADEMIC STUDIES

The curriculum of master academic studies in Clean energy technologies is designed for the purpose of achieving defined goals and competencies. The structure of the curriculum includes elective courses with at least 30% points.

Through elective courses, students meet their affinities profiled during graduate academic studies. Fundamental scientific disciplines, studied at this level, give the research character of the program, enabling even better understanding of complex processes in environment, with conditions for further scientific research of students. All courses last one semester and carry a certain number of points where one point corresponds to about 30 hours of student activities.

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 Clean energy technologies is a professional practice and practical work of 45 hours, which is implemented 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 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 a Commission, as a rule, that is composed for the defence. The final assessment of the diploma paper i.e. master paper is performed on the basis of the passed theoretical and methodological preparation and elaboration evaluation and defence of the paper itself. Final paper is defended before a committee consisting of at least three professors, of whom one member has to be from another Department or Faculty.



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Study Programme Accreditation

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	:									
Course	id:	M3555	Bioenergy Fuels and Alternative Processes							
Numbe	r of ECTS:	7								
Teache	er:		Vićević D. Marija							
Course	status:		Elective							
Numbe	r of active tead	hing classes	s (weekly)							
L	ectures:	Practical of	classes:	Other teachi	ng types:	Study resea	arch work:	Other cla	isses:	
	3	2		1		0		0		
Precon	dition courses	-	-	None			-			
1. Educ	cational goal:									
	ction to biofue methods in th			chnologies. I	ntroductio	on to alternative method	s in odrer to improve	e processes.	Problem	
2. Educ	cational outcon	nes (acquire	d knowledge):						
	ts acquire know dge necessary					hnologies in the process	of their production, a	as well as fun	damental	
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Study Programme Accreditation

Table 5.2 Cou	se specification

	:	In	npleme	entation	of Enei	rgy Manageme	nt in Industry	and Bu	ildinas	
Course	id:	M3M01	mplementation of Energy Management in Industry and Buildings							
Numbe	r of ECTS:	8								
Teache	er:	Pe	Petrović R. Jovan							
Course	status:	El	ective							
Numbe	r of active teac	hing classes (weekly)								
L	.ectures:	Practical cla	asses: Other teaching types: Study research work: Other clas							
	3	3		0		0		0		
Precon	dition courses	-		None						
1. Educ	ational goal:									
energy possibi	systems in a	dministration	and build	dings, evalua	te impacts	in industry and buildings s that energy systems ergy systems and build	have on business	results of co	mpanies,	
2. Educ	cational outcom	nes (acquired l	nowledge	e):						
betwee lowerin	n energy and r	elating policie consumption	s in buildir costs. Sp	ngs as well as pecial attentic	impact that on will be g	ions between energy an at energy consumption h given to mastering the stems in industry and b	as in total costs, pos practice, technique	sibilities and	validity in	
3. Cour	se content/stru	icture:								
and sec system controll 4. Teac	curing the writte s; Energy mar ling the energy ching methods:	en laws in bui nagement and y flows; Adjus	dings; Én l environr tment and	ergy indicator nental protec d recording p	s; Energy o tion as an	on between energy cons cost centers; Procedures pushing force of integr	s in implementation of	of energy mai	nagement	
and sec system controll 4. Teac	curing the writte s; Energy mar ling the energy	en laws in bui nagement and y flows; Adjus	dings; Én l environr tment and	ergy indicator nental protec d recording p	s; Energy o tion as an	cost centers; Procedures	s in implementation of	of energy mai	nagement	
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and sec system controll 4. Teac Verbal Exercis Lecture Test	curing the writti s; Energy mar ling the energy ching methods: method – visua Pre-examina e attendance	en laws in bui nagement and y flows; Adjus al method – pr	dings; Én l environr tment and actical me	ergy indicator nental protec d recording p thod. Knowledge e Mandatory Yes Yes Yes	s; Energy of tion as an raxis. evaluation (Points 5.00 (5.00 10.00	cost centers; Procedures pushing force of integr (maximum 100 points) Final ex Oral part of the exam	s in implementation o al management; To	of energy main ols and proc	nagement edures in Points	
and sec system controll 4. Teac Verbal Exercis Lecture Test	curing the writti s; Energy mar ling the energy shing methods: method – visua Pre-examina e attendance attendance	en laws in bui nagement and y flows; Adjus al method – pr	dings; Én l environr tment and actical me	ergy indicator nental protec d recording p thod. Knowledge e Mandatory Yes Yes Yes	s; Energy of tion as an raxis. evaluation (Points 5.00 5.00 10.00 10.00	cost centers; Procedures pushing force of integr (maximum 100 points) Final ex Oral part of the exam	s in implementation o al management; To	Mandatory Yes	nagement edures in Points	
and sec system controll 4. Teac Verbal Exercis Lecture Test Test	curing the writti s; Energy mar ling the energy shing methods: method – visua Pre-examina e attendance attendance	en laws in bui nagement and y flows; Adjus al method – pr ation obligatior	dings; Én l environr tment and actical me s	ergy indicator nental protec d recording p thod. Knowledge e Mandatory Yes Yes Yes Yes Yes	s; Energy of tion as an raxis. evaluation (Points 5.00 5.00 10.00 10.00 Litera Title pany Energy	cost centers; Procedures pushing force of integr (maximum 100 points) Final e: Oral part of the exam	s in implementation of al management; To kam	Mandatory Yes	Points 70.00	
and sec system controll 4. Teac Verbal I Exercis Lecture Test Test Ord.	curing the writt s; Energy mar ling the energy thing methods: method – visua Pre-examina e attendance attendance attendance Peter Harris Frank Kreith,	en laws in bui nagement and y flows; Adjus al method – pr nation obligation	dings; Én l environr tment and actical me s s Prepa Mana	ergy indicator nental protec d recording p thod. Knowledge e Mandatory Yes Yes Yes Yes Yes aring the Com gement Planr	s; Energy of tion as an raxis. evaluation (Points 5.00 5.00 10.00 10.00 10.00 Litera Title pany Energy	cost centers; Procedures pushing force of integr (maximum 100 points) Final e: Oral part of the exam	s in implementation of al management; To kam Publish	Mandatory Yes	Points 70.00	
and sec system controll 4. Teac Verbal I Exercis Lecture Test Test Ord. 1,	curing the writti s; Energy mar ling the energy thing methods: method – visua Pre-examina e attendance attendance attendance A Peter Harris Frank Kreith, Goswami	en laws in bui nagement and y flows; Adjus al method – pr nation obligation	dings; Én l environr tment and actical me s s Prepa Mana Energ	ergy indicator nental protec d recording p thod. Knowledge e Mandatory Yes Yes Yes Yes Yes aring the Com gement Planr gy Manageme n with energy	s; Energy of tion as an raxis. evaluation (Points 5.00 10.00 10.00 10.00 Litera Title pany Energy ning Guide nt and Con : The cons	cost centers; Procedures pushing force of integr (maximum 100 points) Final ex Oral part of the exam ature gy Plan – A	s in implementation of al management; To kam Ram Energy Publication	Mandatory Yes Group, LLC	Points 70.00 Year 1986	
and sec system controll 4. Teac Verbal Exercis Lecture Test Test Ord. 1, 2,	curing the writti s; Energy mar ling the energy thing methods: method – visua Pre-examina e attendance attendance attendance A Peter Harris Frank Kreith, Goswami	en laws in bui nagement and y flows; Adjus al method – pr ation obligation uthor D. Yogi Randall Thoma	dings; Én l environr tment and actical me s s Prepa Mana Energ s Desig energ	ergy indicator nental protec d recording p thod. Knowledge e Mandatory Yes Yes Yes Yes Yes aring the Com gement Planr gy Manageme in with energy y in buildings gy Efficiency a	s; Energy of tion as an raxis. evaluation (Points 5.00 10.00 10.00 10.00 Litera Title pany Energy ning Guide nt and Con	cost centers; Procedures pushing force of integr (maximum 100 points) Final ex Oral part of the exam ature gy Plan – A nservation Handbook	s in implementation of al management; To kam Ram Energy Publication Taylor and Francis	Mandatory Yes Group, LLC	Points 70.00 Year 1986 2008	



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



Study Programme Accreditation

Clean Energy Technologies

Table 5.2 Course specification

Course:										
Course	id:	M3M04]	Risk Management						
Number	of ECTS:	6								
Teacher	:		Jovanović	ovanović S. Aleksandar						
Course	status:		Elective							
Number	of active teac	hing classe	es (weekly))						
Le	ectures:	Practical	classes:	Other teachi	ng types:	Study rese	arch work:	Other cla	asses:	
	2	:	2	0		C)	0		
Precond	lition courses		-	None						
1. Educa	ational goal:									
						nd academic skills in th and critical thinking ab		gement incl	uding the	
2. Educa	ational outcom	nes (acquir	ed knowled	lge):						
						ents in independent and the necessary scientific			eld of risk	
3. Cours	e content/stru	icture:								
Revising and con researcl	the problem munication so covers activ	s with num oftware. Pa e keeping	nerical and art of the te track of sci	informational m aching is done i	ethods. P ndividually organizati	assessment and the as roblems and development - research in the field of ion and implementation of	nt in implementation of simulation and risk	of simulation assessment.	methods Students	
4. Teach	ning methods:									
better un field and	nderstanding (of the subj	ect. Throuc	hout the scienti	fic and inte	sist of theoretical materi errogative work students with the professor will er	will need to follow th	e current trer	nds in this	
				Knowledge	evaluation	(maximum 100 points)				
	Pre-examina	tion obliga	itions	Mandatory	Points	Final e	-	Mandatory	Points	
	attendance			Yes		Theoretical part of the ex	am	Yes	35.00	
Lecture attendance Ye					5.00 20.00	Oral part of the exam		Yes	35.00	
Term pa	iper			Yes		- 4				
Ord						ature	Dublish		Veer	
Ord.		luthor	Ris	k-based inspect	Title	aintenance in power and	Publishe		Year	
1,	Jovanovic, A		pro	cess plants in E	urope	•	Nuclear Engineer a	ind Design	2003	
2,	Jovanovic, A	., De Witte		e hypertext base pert system for li		ce procedure used in me			1991	



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Study Programme Accreditation

Clean Energy Technologies

Table 5.2 Course specification

Course:	
Course id: M3M07 Energy storage	
Number of ECTS: 6	
Teacher: Gvozdenac D. Dušan	
Course status: Elective	
Number of active teaching classes (weekly)	
Lectures: Practical classes: Other teaching types: Study research work: Other	classes:
2 2 0 0	0
Precondition courses None	
1. Educational goal:	
The increasing use of renewable energy sources requires more intensive and more efficient energy storage. In this course learn about the available technologies for the storage of all types of energy.	tudents will
2. Educational outcomes (acquired knowledge):	
Acquisition of theoretical and practical knowledge of energy storage technologies. Students will be trained to assess the potential of energy storage in power systems.	needs and
3. Course content/structure:	
Primary energy storage (solid fuels, liquid fuels, gaseous fuels), Thermal energy storage (technology based on water technology); Steam accumulator; storage of mechanical energy (spring, compressed air energy storage, flywheel en hydraulic accumulator, storage potential energy of water), storage of electricity (electrochemical forms of energy storage, cells); electric energy storage (capacitors), storage of biological energy (starch, glycogen).	gy storage,
4. Teaching methods:	
Lectures and theoretical exercises. The exam is written. The rating is based on the success of the oral and written expresence in lectures and exercises.	im, and the
Knowledge evaluation (maximum 100 points)	
Pre-examination obligations Mandatory Points Final exam Manda	ry Points
Exercise attendance Yes 5.00 Written part of the exam - tasks and theory Yes	30.00
Lecture attendance Yes 5.00 Oral part of the exam Yes	40.00
Term paper Yes 20.00	
Literature	
Ord. Author Title Publisher	Year
1, D. Gvozdenac Skladištenje energije (skripta) FTN	2013
2, F. S. Barnes, J. G. Levine Large Energy Storage Systems Handbook (Mechanical and Aerospace Engineering Series) Taylor&Francis Group	2011
3, R. Zito Energy Storage: A New Approach John Wiley & Sons	2010





Study Programme Accreditation

Clean Energy Technologies

Course: Clean technologies for electrical vehicles Course id: ZCM02 Number of ECTS: 8 Teachers: Katić A. Nenad, Katić A. Vladimir Course status: Elective Number of active teaching classes (weekly) Lectures: Practical classes: Study research work: Other classes: Other teaching types: 3 3 0 0 0 Precondition courses None 1. Educational goal: Course goal is to introduce students with possibilities of renewable energy sources technology application for implementation of vehicles drive-trains and power supplies, mostly for light electrical vehicles like automobiles and motor-bikes. In such way, course prepare the student for global strategy for reducing harmful emissions and effects of Earth global warming. Students will learn key technical characteristics, and will be offered with hands-on practices on available small, battery-supplied electrical vehicles. 2. Educational outcomes (acquired knowledge): Course will give the student flexible option for starting or continuing their education in the field of electrical vehicles. They would learn how to find optimal solution for electrical vehicle drive-train and vehicle's power supply, taking environmental protection measures. Students would gain elementary technical background for designing electrical vehicles drive-trains and power supplies. 3. Course content/structure: Introduction - concept and types of clean technologies, from the aspects of light electrical vehicles. Technologies survey and their comparison. Vehicle's internal combustion drive with clean and pure fuels: natural gas, liquid gas, bio-gas, and biodiesel. Hybrid electrical vehicles (HEV). Pure electrical vehicles. Battery supplied electrical vehicles. Rechargeable batteries and other methods for energy storage. Fuel-cells in drive system. Drive on solar energy. Examples of modern electrical and hybrid automobiles. Electrical motor-bikes key characteristics and drive system. Electrical bikes - key characteristics and operation principle. Power supplies inside electrical vehicle. Energy management in electrical vehicles. 4. Teaching methods: Course include theoretical lectures and active student participation through discussion on given tasks, group and individual scientific research, interpretation of case studies, etc. Theoretical background and introduction to mathematical models are part of course lectures, while simulation and hands-on solving of different problems are part of laboratory practices. Individual student would be rated through the work on different case studies. 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 50.00 Yes Yes Lecture attendance 5 00 Yes 20.00 Term paper Yes Term paper 20.00 Yes Literature Ord. Author Title Publisher Year V.Katić. TEMPUS-JADES, Fakultet Obnovljivi izvori električne energije 2007 1. I.Kapetanović, V.Fuštić tehničkih nauka, Novi Sad John Wiley & Sons, New York 2, Electric Vehicle Technology Explained Larminie J., Lowry J. 2012





Study Programme Accreditation

Clean Energy Technologies

Table 5.2 Course specification

Course:			Electric Dower Morket							
Course	id:	ZCM05	Electric Power Market							
Number	of ECTS:	6								
Teache	r:		Katić A. Nenad							
Course status: Elective										
Number	of active teac	hing classe	es (weekly)							
L	ectures:	Practical	classes:	Other teachi	ng types:	Study resea	arch work:	Other cla	asses:	
	2	2	2	0		0		0		
Precond	dition courses	-		None						
1. Educ	ational goal:			-						
which is systems	s characterize and economi	ed by a low ic and marl	degree of a ket aspects o	dverse impac of working with	t on envi electricit	cts of the use of electricity ronment. Student will be y. Students will become f rganized systems.	introduced to the c	concept of de	regulated	
2. Educ	ational outcom	nes (acquire	ed knowledge	e):						
						ket in electricity trading in to monitor and market c				
3. Cours	se content/stru	icture:								
deregul entrants deregul busines	ation and rest s operating in ation in the we s conditions in among differen	tructuring of the electric orld, the ru n the energ	of the electric ity sector. Or les of the Eu gy sector. Th	c power indus rganization an iropean Unior e role of regu	stry. The ind function b. Deregul latory age	ver utilities organizations new organization and the ning of the participants in lation and restructuring o encies in the EU and Serl nd European markets, and	e technical and eco the electricity marke f the power industry bia. The methods ar	nomic conditi et. The experi- in Serbia. Mand conditions	ons, new ence with arket and of pricing	
Teachir researc	h, processing I work and sir	clude lectu , case stu	dies, etc Th	neoretical asp	pects and	through discussion on a mathematical models w pendent student work wil	ill be presented at	the lectures,	while the	
				Knowledge	evaluation	(maximum 100 points)				
	Pre-examina	ation obliga	tions	Mandatory	Points	Final ex	kam	Mandatory	Points	
Exercise	e attendance			Yes	5.00	Written part of the exam	 tasks and theory 	Yes	40.00	
Lecture	attendance			Yes		Oral part of the exam		Yes	10.00	
Term pa	aper			Yes	20.00	-				
Test Test				Yes	10.00 10.00	-				
1631				Yes						
Ord.	Λ	uthor			Title	ature	Publish	or	Year	
1,	N. Katić, V. E Halilčević		Ekon	omija elektroe			TEMPUS-CEFES, tehničkih nauka, N	Fakultet	2007	
2,	S. Filipović, (G. Tanić		vi na tržištu el	-		Ekonomski institut,		2010	
,										



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



Study Programme Accreditation

Clean Energy Technologies

Course: Renewable and Distributed Electrical Energy Sources Course id: ZCM08 Number of ECTS: 6 Teachers: Katić A. Nenad, Katić A. Vladimir Course status: Elective Number of active teaching classes (weekly) Other teaching types: Lectures: Practical classes: Study research work: Other classes: 2 1 1 0 0 Precondition courses None 1. Educational goal: The goal of this course is to provide students with basic knowledge of the principles and operation of renewable electric. energy sources, as a new generation distributed over the distribution network. The focus will be on wind energy, solar and hydropower (small hydro). The aim is to thoroughly introduce the modes, design, construction, and technical and economic aspects of their application, especially in light of the available capacity in Vojvodina and Serbia. In addition, the present and the interconnection of these sources into the existing distribution system, as well as all the problems and advantages of this approach. 2. Educational outcomes (acquired knowledge): Students will be able to calculate, design and apply various forms of renewable energy, and to improve their applicability. They will gain practical experience in working with wind and solar power, as well as know-how on their operation and connection to the existing power system 3. Course content/structure: Introduction - overview of renewable energy sources. Energy potential and geographic distribution. The situation in Serbia and Vojvodina. The display and conversion opportunities. Converters of solar energy and wind energy into electricity - theories, models and practices. Characteristics and selection of electric generators in wind power plants. Energy electric inverters - application of wind power, the use of the power of the sun. Questions of construction and assembly. Complex power plants (wind farms) - mode, surveyor regimes, management, networking with EES. Small hydro power plants - kenstrukcija, manage and connect. Economic and commercial conditions for use of renewable resources for the production and sale of electricity. Connection options renewable sources into the power system. Advantages and problems in distributed work (unstable networks, island operation, power quality, energy production, etc..). 4. Teaching methods: Theoretical aspects and mathematical models will be presented at the lectures. Problem solving and design methods will be made ??on the auditory exercises, while the practical work and measurement characteristics to be done in the laboratory exercises. Independent student work will be reported in the project. Knowledge evaluation (maximum 100 points) Mandatory Points Points Pre-examination obligations Final exam Mandatory Exercise attendance 5 00 Written part of the exam - tasks and theory 50.00 Yes Yes Lecture attendance 5.00 Yes Term paper 20.00 Yes Term paper 20.00 Yes Literature Ord. Title Publisher Year Author John Wiley and Sons, 1, Thomas Ackermann Wind Power in power systems 2005 Chichester Distribuirani izvori energije - princip rada i 2, Vladica Mijailović Akademska misao, Beograd 2011 eksploatacioni aspekti





Study Programme Accreditation

Table 5.	2 Course	specification

Course:									
Course id:	ZCM11	Modern software tools for clean energy technologies							
Number of ECTS:	7								
Teacher:	Če	Čelanović L. Nikola							
Course status:	Ele	ctive							
Number of active teac	hing classes (v	/eekly)							
Lectures:	Practical clas	ses:	Other teachi	ng types:	Study resea	arch work:	Other cla	isses:	
3	3		0		0		0		
Precondition courses	-		None						
1. Educational goal:									
renewable energy. In	addition, the a	im is to pr	resent softwa	re tools fo	tools available for the de the design of appropria the corresponding consum	te plants and their ov			
2. Educational outcom	nes (acquired k	nowledge):						
power plants and inve 3. Course content/stru Introduction - basic fe solar and hydro energ	estigate their ef icture: atures and cha gy. Compariso	fects. aracteristion of tools	cs of software for each sou	e tools. Ov	and water. In addition, y verview of available tools ne most appropriate choi ro and wind energy in Vo	for assessing the en	ergy potentia	al of wind	
grid and testing of pos	sible situations	. Connec	t with storage	devices a	y characteristics. Solar pla and testing the characteria best features of the prac	stics of their work. Re	eview of softw	vare tools	
4. Teaching methods:									
scientific research, da	ata processing, ork and simul	case stu ation wor	dies, etc Th	eoretical a	through the discussion aspects and mathematica rm ofexercise. Indepen-	al models will be pre-	sented at the	lectures	
			Knowledge e	evaluation	(maximum 100 points)				
	ation obligations	3	Mandatory	Points	Final ex		Mandatory	Points	
Exercise attendance			Yes		Written part of the exam	- tasks and theory	Yes	60.00	
Lecture attendance			Yes		Oral part of the exam		Yes	10.0	
Term paper			Yes	20.00					
					ature				
	uthor	100	<u></u>	Title		Publishe	er	Year	
1, Riso Laborat		-	,		lication Program	Course Notes		2004	
2, Volker Quase	cnning	Under	standing Ren	ewable er	nergy systems	Earthscan		2005	



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



Study Programme Accreditation

Clean Energy Technologies

Table 5.2 Course specification

Course:										
Course	id:	ZCM03		Novel materials in energetics						
Number	of ECTS:	8								
Teacher: Štrbac D. Di				. Dragana						
Course	status:		Elective							
Number	of active teac	hing classe	es (weekly	')						
L	ectures:	Practical	classes:	Other teachi	ng types:	Study rese	arch work:	Other cla	isses:	
	3	:	3	0		0		0		
Precond	lition courses			None						
1. Educ	ational goal:									
						in terms of material prop lication in the energy sec		e specific type	es of new	
2. Educ	ational outcom	nes (acquir	ed knowled	dge):						
The abi	lity to choose a	adequate, o	convenient	t and high-quality	novel ma	terials for specific applica	tions in the field of er	nergy product	ion.	
3. Cours	se content/stru	icture:								
generat convers High te Materia	ors, photovol ion of energy mperature an ls for specific a	taic prope (magnets d flame re application	rties, mec with , nan esistant po s in moder	chanical properti nocomposites ma olymers. Corrosi rn energy produc	es, energ agnets, hig on resista tion(thin f	c materials for solar par y efficiency). Modern m gh temperature permane ant polymers. Polymers Ims for energy conversio city hydride batteries, nar	agnetic materials for nt magnets). Modern for electrical and el n and storage of ene	or energy sto n polymers fo lectronic app ergy, steel and	rage and or energy. lications.	
4. Teac	hing methods:									
Lecture	s, exercises, c	onsultation	IS.							
				Knowledge e	evaluation	(maximum 100 points)				
	Pre-examina	tion obliga	tions	Mandatory	Points	Final e	kam	Mandatory	Points	
	e attendance			Yes		Oral part of the exam		Yes	70.00	
_	attendance			Yes	5.00					
Term pa	aper			Yes	20.00					
						ature		i		
Ord.	A I. Vouldis, P.	uthor Millot I I			Title		Publishe	er	Year	
1,	I. Vouidis, P. Valles	willet, J. L	. No	ovel materials for	energy ap	oplications	European Commur	nities	2008	
2,	Manas Chan	da, Salil K.		astics Technolog			CRC Press		2008	
3,	John Lawton	et al.	-	Novel Materials in the Environment: The case of nanotechnology Royal Commission on environmental pollution 200x						





Study Programme Accreditation

Course										
Course	id:	ZCM06		Security of strategic energy facilities						
Numbe	er of ECTS:	6								
Teachers: Sakulski M. Dušan, Štrbac D. Dragana, Vujić V. Goran										
Course	status:		Elective							
Number of active teaching classes (weekly)										
L	_ectures:	Practical	al classes: Other teaching types: Study research work:					Other cla	sses:	
	2	2		0 0 0						
Precon	dition courses	•		None			•			
1. Educ	cational goal:									
facilitie	es, and its app	lication. Ba	ased on an	analysis of se	erious ind	ic concepts of security c ustrial accidents flaws in a amounts of energy sou	n the security system	nd nuclear pla m installation	ants and s will be	
2. Educ	cational outcom	nes (acquire	d knowled	ge):						
energy	systems. Stud	lents will als	so be introd		ecurity sys	st be taken into considera stems of large power plar of power plants				
3. Course content/structure:										
			-fololo-lo-			· ·		1:66	41I	
Theore electric diversit basic p	etical Studies: http://www.studies. http://wwww.studies. http://wwww.studies. http://wwww.studies. http://	Overview of the basic ration princi	principles	of safety in des nciple of fail-saf	n the worl lign and n e, etc.). Pi	d and Serbia. Security r naintenance of power pla rotection of power plants exercises are dealing with	ants (redundancy pri from terrorist attacks	nciple, the pri . The applicati	nciple on of th	
Theore electric diversit basic p exampl	etical Studies: http://www.studies. http://wwww.studies. http://wwww.studies. http://wwww.studies. http://	Overview of The basic ration princi curity in nuc	principles	of safety in des nciple of fail-saf	n the worl lign and n e, etc.). Pi	d and Serbia. Security r naintenance of power pla rotection of power plants	ants (redundancy pri from terrorist attacks	nciple, the pri . The applicati	nciple o on of the	
Theore electric diversit basic p exampl 4. Teac At the underst studen	etical Studies: city production. y, spatial sepa principles of sec les. ching methods: lectures theor tanding and ad t participation	Overview of The basic ration princi curity in nuc retical part loption of th and pract	principles ple, the principles clear plants of the mat eoretical m ical applic	of safety in des nciple of fail-saf . Practical lesso erial is present aterial. The aud ation of moder	the worl ign and n e, etc.). Properties of the properties of the second the second sec	d and Serbia. Security r naintenance of power pla rotection of power plants	ants (redundancy pri from terrorist attacks. a lecture material in o amples from industr I with teaching mater ic and probabilistic)	nciple, the pri . The applicati detail through y in order to rials with a mo) of facilities	nciple c on of the practica facilitate	
Theore electric diversit basic p exampl 4. Teac At the underst studen	etical Studies: city production. y, spatial sepa principles of sec les. ching methods: lectures theor tanding and ad t participation	Overview of The basic ration princi curity in nuc retical part loption of th and pract	principles ple, the principles clear plants of the mat eoretical m ical applic	of safety in des nciple of fail-saf . Practical lesso erial is present aterial. The aud ation of moder egular teaching	the worl sign and n e, etc.). Properties ons: The e ted acconditory exer n analysi g method	d and Serbia. Security r naintenance of power pla rotection of power plants exercises are dealing with npanied by practical exa cises are dealing in detai s methods (determinist	ants (redundancy pri from terrorist attacks. a lecture material in o amples from industr I with teaching mater ic and probabilistic)	nciple, the pri . The applicati detail through y in order to rials with a mo) of facilities	nciple c on of th practica facilitat	
Theore electric diversit basic p exampl 4. Teac At the underst studen Consul	etical Studies: city production. y, spatial sepa principles of sec les. ching methods: lectures theor tanding and ad t participation ltations are he Pre-examina	Overview of The basic ration princi curity in nuc retical part loption of th and pract eld as a pa	principles iple, the principlear plants of the mat eoretical m ical applic art of the r	of safety in des nciple of fail-saf . Practical lesso erial is present aterial. The aud ation of moder egular teaching	ted accon ditory exer n analysi g method evaluation Points	d and Serbia. Security r naintenance of power plants rotection of power plants exercises are dealing with npanied by practical exa cises are dealing in detai s methods (determinist s in addition to perform (maximum 100 points) Final ex	ants (redundancy pri from terrorist attacks. a lecture material in o amples from industr I with teaching mater ic and probabilistic) ning lectures and ex cam	nciple, the pri . The applicati detail through y in order to rials with a mo) of facilities	nciple c on of th practica facilitat re activ security	
Theore electric diversit basic p exampl 4. Teac At the undersi studen Consul	etical Studies: city production. y, spatial sepa rrinciples of sec les. ching methods: lectures theor tanding and ad t participation ltations are he Pre-examina se attendance	Overview of The basic ration princi curity in nuc retical part loption of th and pract eld as a pa	principles iple, the principlear plants of the mat eoretical m ical applic art of the r	of safety in des nciple of fail-saf . Practical lesse aterial is present aterial. The aud ation of moder egular teaching Knowledge of Mandatory Yes	the worl sign and n e, etc.). Property ons: The e ted acconditory exer in analysi g method evaluation Points 5.00	d and Serbia. Security r naintenance of power pla rotection of power plants exercises are dealing with npanied by practical exa cises are dealing in detai s methods (determinist s in addition to perform (maximum 100 points) Final ex Written part of the exam	ants (redundancy pri from terrorist attacks. a lecture material in o amples from industr I with teaching mater ic and probabilistic) ning lectures and ex cam	nciple, the pri . The applicati detail through y in order to rials with a mo) of facilities xercises. Mandatory Yes	nciple c on of th practica facilitat re activ security Points 60.0	
Theore electric diversit basic p exampl 4. Teac At the underst studen Consul Exercis Lecture	etical Studies: city production. y, spatial sepa rinciples of sec les. ching methods: lectures theor tanding and ad t participation ltations are he Pre-examina se attendance attendance	Overview of The basic ration princi curity in nuc retical part loption of th and pract eld as a pa	principles iple, the principlear plants of the mat eoretical m ical applic art of the r	of safety in des nciple of fail-saf . Practical lesso atterial. The audition of moder egular teaching Knowledge e Mandatory Yes Yes	the worl sign and n e, etc.). Property ons: The e ted acconditory exer in analysi g method evaluation Points 5.00 5.00	d and Serbia. Security r naintenance of power plants rotection of power plants exercises are dealing with npanied by practical exa cises are dealing in detai s methods (determinist s in addition to perform (maximum 100 points) Final ex	ants (redundancy pri from terrorist attacks. a lecture material in o amples from industr I with teaching mater ic and probabilistic) ning lectures and ex cam	nciple, the pri . The applicati detail through y in order to rials with a mo) of facilities xercises. Mandatory	nciple c on of th practica facilitat re activ security Points 60.0	
Theore electric diversit basic p exampl 4. Teac At the underst studen Consul Exercis Lecture	etical Studies: city production. y, spatial sepa rinciples of sec les. ching methods: lectures theor tanding and ad t participation ltations are he Pre-examina se attendance attendance	Overview of The basic ration princi curity in nuc retical part loption of th and pract eld as a pa	principles iple, the principlear plants of the mat eoretical m ical applic art of the r	of safety in des nciple of fail-saf . Practical lesse aterial is present aterial. The aud ation of moder egular teaching Knowledge of Mandatory Yes	the worl ign and n e, etc.). Properties of the pons: The e ted acconn ditory exer in analysi g method evaluation Points 5.00 5.00 20.00	d and Serbia. Security r naintenance of power pla rotection of power plants exercises are dealing with npanied by practical exa cises are dealing in detai s methods (determinist s in addition to perform (maximum 100 points) Final exam Oral part of the exam	ants (redundancy pri from terrorist attacks. a lecture material in o amples from industr I with teaching mater ic and probabilistic) ning lectures and ex cam	nciple, the pri . The applicati detail through y in order to rials with a mo) of facilities xercises. Mandatory Yes	nciple c on of th practica facilitat re activ security Points 60.0	
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Theore electric diversit basic p exampl 4. Teac At the undersi studen Consul Exercis Lecture Term p	etical Studies: city production. y, spatial sepa principles of sec les. ching methods: lectures theor tanding and ad t participation ltations are he Pre-examina- se attendance aper	Overview of The basic ration princi curity in nuc retical part loption of th and pract eld as a pa ation obligat	principles iple, the principlear plants of the mat eoretical m ical applic art of the r ions	of safety in des nciple of fail-saf . Practical lesso atterial. The audition of moder egular teaching Knowledge e Mandatory Yes Yes	the worl sign and n e, etc.). Properties the accondition exer- in analysi g method evaluation Points 5.00 5.00 20.00 Liter Title	d and Serbia. Security r naintenance of power pla rotection of power plants exercises are dealing with npanied by practical exa cises are dealing in detai s methods (determinist s in addition to perform (maximum 100 points) Final exam Oral part of the exam ature	ants (redundancy pri from terrorist attacks. a lecture material in o amples from industr I with teaching mater ic and probabilistic) ning lectures and ex cam - tasks and theory	nciple, the pri . The applicati detail through y in order to rals with a mo) of facilities xercises. Mandatory Yes Yes er	nciple c on of the practica facilitate re active security Points 60.0 10.0	





Study Programme Accreditation

Table 5.2	Course	specification
	000100	opoomoution

Course:			Occurational Lealth and Cafety							
Course	-	ZCM09	Occupational Health and Safety							
Number	of ECTS:	6								
Teache			Hadžistev	ić J. Miodrag						
Course	status:		Elective							
Number	Number of active teaching classes (weekly)									
L	ectures:	Practical	classes:	asses: Other teaching types: Study research work: Other classes:						
	2	1	1 1 0							
Precond	Precondition courses None									
1. Educ	1. Educational goal:									
importan system coopera the asse to imple	nce of their us and how it is ition is the bas ets and equipr	e. It explain established sis of succe ment of occ s of occup	ns the nece d. Students ess in the in upational h	essity of establis s learn about the nplementation o nealth and safety	hing a sys e role of g f occupati / which mi	the basic principles of t tem of occupational heal government, union of em onal health and safety at inimizes impacts of identi ns defined by law, educ	th and safety, descril ployers and union of the state level. Stud fied hazards and the	bes the eleme of workers who ents gain know procedures n	nts of the ose close wledge of lecessary	
2. Educ	ational outcom	nes (acquire	ed knowled	ge):						
role of a system	all stakeholde in enterprises	rs in the im s. Students	plementati will becom	on of occupatione familiar with	nal health the legisla	ples of occupational heal and safety and thus wil ation in the field of occup ation conventions and in	I gain the necessary pational health and s	/ knowledge to safety, arising	o use the	
3. Cours	se content/stru	ucture:								
sources health a	in the field of	f occupatio wer plants.	nal health	and safety. Dire	ectives of	alth and safety system in the European Union. Se een economy. Green job:	rbian legal acts in th	ne field of occ	upational	
4. Teac	ning methods:									
facilitate						of the material with appr atory exercises knowledg				
-				Knowledge e	evaluation	(maximum 100 points)				
	Pre-examina	ation obliga	tions	Mandatory	Points	Final e	xam	Mandatory	Points	
Exercise	e attendance			Yes	5.00	Written part of the exam	- tasks and theory	Yes	20.00	
Lecture	attendance			Yes	5.00	Oral part of the exam		Yes	50.00	
Test				Yes	10.00			-		
Test				Yes	10.00					
					Liter	ature	-			
Ord.	A	Author			Title	9	Publish		Year	
1,	Bez autora		Zał	kon o bezbedno:	sti i zdravl	ju na radu	SI. glasnik R. Srbij 101/2005.	e broj	2005	
2,	Bez autora		Pra	vilnici iz oblasti	bezbedno	sti i zdravlja na radu			Х	
3,	Simo Kosić, Trefalt, Drag				lje na radi	u - direktive Evropske	Agencija za bezbe zdravlje u radnoj i : sredini		2006	





Study Programme Accreditation

Clean Energy Technologies

Table 5.2 Course specification

	:		Logistic of energy biomass						
Course	id:	ZCM12							
Numbe	r of ECTS:	7							
Teache	r:		Martinov L. Milan						
Course	status:	Elective							
Numbe	r of active tead	hing classe	s (weekly)						
L	ectures:	Practical	classes:	lasses: Other teaching types: Study res			arch work:	Other cla	isses:
	3	3		0			0		
Precon	dition courses	•		None					
1. Educ	ational goal:								
Acquisi	tion of knowled	dge about pi	roduction and	d logistic of so	lid biomass	in the form of crop resid	dues and energy cro	ps.	
2. Educ	ational outcom	nes (acquire	ed knowledge	e):					
Knowle	dge and skills	related to e	nergetic utiliz	ation of crop	residues and	d energy crops in agricu	Iture and forestry		
3. Cour	se content/stru	ucture:							
Introduction in course subjects, information on students obligation and knowledge evaluation. Biomass as energy source, status and prospectus. Crop residues, energy crops and their characteristics relevant for its energetic utilization. Defining of potentials and possible increase of it. Establishing of biomass action plans from community to republic level. Crop residues, amount, harvesting, storage, transport, processing. Impact of crop residues off-take on soil fertility, possible reduction or elimination of negative impacts. Mechanized harvest and manipulation of crop residues. Production of energy plants, having in mind preservation of soil fertility, biodiversity and reduction of competition for food production. Evaluation of possible increase of yield and introduction of dual cropping. Harvest and utilization of forest residues. Assessment of potentials, mechanization of supply chain. Production and energetic utilization of energy crops, SRC (short rotation coppices). Backgrounds for economic evaluation, whereby is focused logistic. Visit to one farm or producer of									
harvest reduction utilization	and manipulation of competition of forest re on of forest re SRC (short rot	Impact of c ation of cro tion for food sidues. Ass	crop residues p residues. d production sessment of	s off-take on s Production of . Evaluation of potentials, m	oil fertility, p energy pla of possible i echanizatio	possible reduction or el ants, having in mind pr increase of yield and i on of supply chain. Proo	imination of negative eservation of soil fe ntroduction of dual duction and energet	e impacts. Me rtility, biodive cropping. Har ic utilization c	chanized ersity and vest and of energy
harvest reductio utilizatio crops, s energy	and manipulation of competition of forest re on of forest re SRC (short rot	Impact of cation of cro tion for food sidues. Ass ation coppid	crop residues p residues. d production sessment of	s off-take on s Production of . Evaluation of potentials, m	oil fertility, p energy pla of possible i echanizatio	possible reduction or el ants, having in mind pr increase of yield and i on of supply chain. Proo	imination of negative eservation of soil fe ntroduction of dual duction and energet	e impacts. Me rtility, biodive cropping. Har ic utilization c	chanized ersity and evest and of energy
harvest reduction utilization crops, S energy 4. Teac	and manipula on of competiti on of forest re SRC (short rot crops.	Impact of of ation of cro tion for food sidues. Ass ation coppio	crop residues p residues. d production sessment of ces). Backgro	s off-take on s Production of . Evaluation of potentials, m punds for eco	soil fertility, p energy pla of possible i echanizatio nomic evalu	possible reduction or el ants, having in mind pro- increase of yield and in on of supply chain. Pro- lation, whereby is focus	imination of negative eservation of soil fe ntroduction of dual duction and energet	e impacts. Me rtility, biodive cropping. Har ic utilization c	chanized ersity and evest and of energy
harvest reduction utilization crops, S energy 4. Teac	and manipul on of competit on of forest re SRC (short rot crops. hing methods:	Impact of of ation of cro tion for food sidues. Ass ation coppio	crop residues p residues. d production sessment of ces). Backgro	s off-take on s Production of . Evaluation of potentials, m punds for econ ense, colloquia	soil fertility, p energy pla of possible i echanizatio nomic evalu	possible reduction or el ants, having in mind pro- increase of yield and in on of supply chain. Pro- lation, whereby is focus	imination of negative eservation of soil fe ntroduction of dual duction and energet	e impacts. Me rtility, biodive cropping. Har ic utilization c	chanized ersity and evest and of energy
harvest reduction utilization crops, S energy 4. Teac	and manipul on of competit on of forest re SRC (short rot crops. hing methods:	Impact of d ation of cro tion for food sidues. Ass ation coppid	crop residues p residues. d production sessment of ces). Backgro with oral defe	s off-take on s Production of . Evaluation of potentials, m punds for econ ense, colloquia	soil fertility, p energy pla of possible i echanizatio nomic evalu	possible reduction or el ants, having in mind pro- increase of yield and in on of supply chain. Pro- lation, whereby is focus oral exam.	imination of negative eservation of soil fe ntroduction of dual duction and energet ed logistic. Visit to o	e impacts. Me rtility, biodive cropping. Har ic utilization c	chanized ersity and evest and of energy
harvest reductio utilizatio crops, s energy 4. Teac Auditor	t and manipula on of competii on of forest re SRC (short rot crops. hing methods: y classes, sem	Impact of d ation of cro tion for food sidues. Ass ation coppid	crop residues p residues. d production sessment of ces). Backgro with oral defe	s off-take on s Production of . Evaluation of potentials, m pounds for econ ense, colloquia	soil fertility, p energy pla of possible echanizatio nomic evalu al exam and evaluation (r Points	possible reduction or el ants, having in mind pro- increase of yield and in on of supply chain. Pro- iation, whereby is focus oral exam. maximum 100 points)	imination of negative eservation of soil fe ntroduction of dual duction and energet ed logistic. Visit to o	e impacts. Mee rtility, biodive cropping. Har ic utilization c ne farm or pro	chanized ersity and vest and of energy oducer of
harvest reductid utilizatii crops, s energy 4. Teac Auditor Exercis	t and manipula on of competition on of forest re SRC (short rot crops. hing methods: y classes, sem	Impact of d ation of cro tion for food sidues. Ass ation coppid	crop residues p residues. d production sessment of ces). Backgro with oral defe	s off-take on s Production of . Evaluation of potentials, m bunds for ecol ense, colloquia Knowledge e Mandatory	soil fertility, p energy pla of possible echanizatio nomic evaluation (r Points 5.00 O 5.00	possible reduction or el ants, having in mind pro- increase of yield and in on of supply chain. Pro- iation, whereby is focus oral exam. maximum 100 points) Final ex	imination of negative eservation of soil fe ntroduction of dual duction and energet ed logistic. Visit to o	e impacts. Mee rtility, biodive cropping. Har ic utilization c ne farm or pro	chanized ersity and vest and of energy oducer of Points
harvest reductid utilizatii crops, s energy 4. Teac Auditor Exercis	t and manipula on of competii on of forest re SRC (short rot crops. hing methods: y classes, sem Pre-examina e attendance attendance	Impact of d ation of cro tion for food sidues. Ass ation coppid	crop residues p residues. d production sessment of ces). Backgro with oral defe	s off-take on s Production of . Evaluation of potentials, m bunds for ecol ense, colloquia Knowledge e Mandatory Yes	soil fertility, p energy pla of possible echanizatio nomic evalue al exam and evaluation (r Points 5.00 5.00 30.00	possible reduction or el ants, having in mind pro- increase of yield and in on of supply chain. Pro- iation, whereby is focus oral exam. maximum 100 points) Final ep Dral part of the exam	imination of negative eservation of soil fe ntroduction of dual duction and energet ed logistic. Visit to o	e impacts. Mee rtility, biodive cropping. Har ic utilization c ne farm or pro	chanized ersity and vest and of energy oducer of Points
harvest reductid utilizatii crops, § energy 4. Teac Auditon Exercis Lecture	t and manipula on of competii on of forest re SRC (short rot crops. hing methods: y classes, sem Pre-examina e attendance attendance	Impact of d ation of cro tion for food sidues. Ass ation coppid	crop residues p residues. d production sessment of ces). Backgro with oral defe	s off-take on s Production of . Evaluation of potentials, m pounds for econ ense, colloquia Knowledge e Mandatory Yes Yes	soil fertility, p energy pla of possible echanizatio nomic evaluation (r Points 5.00 O 5.00	possible reduction or el ants, having in mind pro- increase of yield and in on of supply chain. Pro- iation, whereby is focus oral exam. maximum 100 points) Final ep Dral part of the exam	imination of negative eservation of soil fe ntroduction of dual duction and energet ed logistic. Visit to o	e impacts. Mee rtility, biodive cropping. Har ic utilization c ne farm or pro	chanized ersity and vest and of energy oducer of Points
harvest reductid utilizatii crops, § energy 4. Teac Auditon Exercis Lecture	t and manipula on of competition of forest re SRC (short rot crops. hing methods: y classes, sem Pre-examinate attendance attendance	Impact of d ation of cro tion for food sidues. Ass ation coppid	crop residues p residues. d production sessment of ces). Backgro with oral defe	s off-take on s Production of . Evaluation of potentials, m bunds for ecol ense, colloquia Knowledge e Mandatory Yes Yes Yes	soil fertility, p energy pla of possible echanizatio nomic evaluation al exam and evaluation (r Points 5.00 0 5.00 30.00 Literate Title	possible reduction or el ants, having in mind pre- increase of yield and in on of supply chain. Pro- iation, whereby is focus oral exam. maximum 100 points) Final ex Dral part of the exam	imination of negative eservation of soil fe ntroduction of dual duction and energet ed logistic. Visit to o additional denerget ed logistic. Visit to o Publishe	e impacts. Mee rtility, biodive cropping. Har ic utilization c ne farm or pro Mandatory Yes	chanized ersity and vest and of energy oducer of Points
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FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6



Study Programme Accreditation

Clean Energy Technologies

Table 5.2 Course specification

Course:											
Course	id:	Z504			F	Professional pra	actice				
Number	Number of ECTS: 3										
Teacher	rs:										
Course	status:		Mandato	ry							
Number	of active teac	hing classe	es (weekly	()							
Le	ectures:	Practical	classes:	Other teachi	ng types:	Study rese	arch work:	Other cla	asses:		
	0	()	0		C		3			
Precond	lition courses			None		•	•				
1. Educa	ational goal:										
						ompanies and institution ing previously acquired			rofession		
2. Educa	ational outcom	es (acquire	ed knowle	dge):							
the sele	cted companie	es or institu	utions. Intr		to activitie	ional knowledge to solvess of the selected comparation and structures.					
3. Cours	se content/stru	cture:									
				agreement with th rofession for whic		ement of companies or in lent is qualified.	nstitutions, performin	g professiona	al practice		
4. Teach	ning methods:										
	Consultation and writing a diary of professional practice in which a student describes the activities and tasks that he performed during the professional practice.										
				Knowledge e	evaluation	(maximum 100 points)					
	Pre-examina	ition obliga	tions	Mandatory	Points	Final e	xam	Mandatory	Points		
Project				Yes	50.00	Project defence		Yes	50.00		
					Litera	iture					
Ord.	A	uthor			Title		Publish	er	Year		



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

Study Programme Accreditation

Clean Energy Technologies

Table 5.2 Course specification

MASTER ACADEMIC STUDIES

Course:								
Course id:	ZCSIM1		Research on	Theoretical Grou	nds - Master	Thesis		
Number of ECTS:	15							
Teachers:								
Course status:		Mandator	rv					
Number of active teaching classes (weekly)								
Lectures:	Practical		Other teaching type	s: Study rese	arch work:	Other cla	asses:	
0	()	0	2	0	0		
Precondition course	es		None					
1. Educational goal	:							
specific problems v structure and on the to the methods are	vithin the sele basis of the designed for is to acquire	ected area. analysis d solving sir the neces	. In the second part of th draws conclusions on the milar tasks and engineer ssary experience in solv	nical and professional kno is master thesis, students s possible ways of solving it ng practice in solving them ng complex problems and	study the problem, ar . Studying literature s . The aim of the activ	nd the comple tudents are in vities of stude	exity of its ntroduced nts in this	
2. Educational outc	omes (acquire	ed knowled	dge):					
review the structure Through the use of relating to similar p Practical application	Training students to independently apply previously acquired knowledge in different fields that have been previously studied, in order to review the structure of the given problem and its system analysis in order to draw conclusions on possible directions for its resolution. Through the use of literature alone, students expand their knowledge of selected field and the study of various methods and papers relating to similar problems. In this way, the students develop the ability to conduct analysis and identify problems within the given topic. Practical application of acquired knowledge in different areas of studentat develop the ability to look at the place and role of engineers in the chosen field, the need to cooperate with other professions and teamwork.							
3. Course content/s	tructure:							
literature, graduate defined task of mas active monitoring of	and master the ster t	nesis, proje ork. Part of themes of	ects that deal with simila f teaching the course is knowledge, organization	It of a master thesis, its co topics, makes analyzes in conducted through independent and conduct experiments, v field of science teaching v	order to find solution ndent study research numerical simulation	s specific tas . Studio work and statistica	k which is c includes al analysis	
4. Teaching method	ls:							
4. Teaching methods: Mentor of master thesis of the task compiles and submits it to the student. The student is required to work within the framework of the development of a given topic, which is defined task of master thesis work, using literature from the proposed mentor. During the preparation of of master thesis, a mentor can give students additional guidance, refer to specific literature and further directed him to of master thesis the production of quality work. In the research study, the student consults with the supervisor, if necessary, with other teachers who are dealing with the topics of the field work. Within a given topic, the student, if necessary perform certain measurements, tests, counts, surveys and other research, statistical data, if provided task of master thesis work.								
			Knowledge evaluation	on (maximum 100 points)				
	ination obliga	tions	Mandatory Point		xam	Mandatory		
Term paper				0 Oral part of the exam		Yes	50.00	
		i		erature				
Ord.	Author			tle	Publishe	er	Year	
1, grupa auto			sopisi sa Kobson liste	rodovi			sve	
∠, j grupa auto	2, grupa autora časopisi, diplomski i master radovi sve							





Study Programme Accreditation

Clean Energy Technologies

ication

Course:		Elaboration and Defence of Diploma - Master Thesis						
Course id:	ZCMR1							
Number of ECTS:	15							
Teachers:								
Course status:		Mandatory						
Number of active tead	ching classe	es (weekly	()					
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:			
0	()	0	0	10			
Precondition courses	-		None		-			
1. Educational goal:								

Acquiring knowledge about structure and form of report writing after the analysis, and other activities carried out within the assigned theme of graduate-master thesis . By creating the diploma Master thesis, students gain experience in writing papers within which it is necessary to describe the problem, implemented methods and procedures and the achieved results. In addition, the objective of the elaboration and defense of the diploma Master thesis is to develop students'skills for independent paper preparation in a suitable form for the purpose of public presentation, and to respond to comments and questions about a given topic.

2. Educational outcomes (acquired knowledge):

Training students for a systematic approach in solving the given problem, carrying out analyses, applying knowledge and accepting knowledge from other areas in order to find solutions for a given problem. Through independent studying and solving tasks in a given topic, they acquire the knowledge about the complexity of the problems in the field of their profession. Through elaboration of master thesis, students get certain experiences that can be applied in practice when solving problems in the field of their profession. By preparation of results for public defense, public defense and answering questions and complaints of the Commission, the student acquires the necessary experience how to present the results of independent or team work in practice.

3. Course content/structure:

It is individually formed in accordance with the needs and needs and the area covered by a given master thesis. In agreement with the mentor, a student makes a master thesis in writing in accordance with the rules provided by the Faculty of Technical Sciences. A student prepares and publically defends a written master thesis, in agreement with a mentor and in accordance with prescribed rules and procedures.

4. Teaching methods:

During the elaboration of the master thesis, a student consults with his/her mentor, and if necessary with other teachers dealing within a sphere of the master thesis. A student makes a master thesis and upon the approval by the Commission for Assessment and Defense, submits the bound copies to the Commission. The Defense of the master thesis is performed publically, and after the presentation the student is obliged to orally answer the questions and comments.

Knowledge evaluation (maximum 100 points)						
Pre-examination obligations Mandatory Points Final exam Mandatory Point						
			Master thesis defence	Yes	50.00	
			Writing the master thesis	Yes	50.00	



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES



Standard 06. Programme Quality, Contemporaneity and International Compliance

The study program of Clean energy technologies formed and defined the programme of multidisciplinary and interdisciplinary studies of clean energy, keeping in mind the specifics of the profession of the clean energy in Serbia and respecting the experience from the relevant university institutions in the world dealing with the education of the experts in this field. This study profile is recognized as a sublimation of the study programmes of the following universities:

1. Electrical Technology for Sustainable and Renewable Energy Systems Masters (MSc), The University of Nottingham

http://www.nottingham.ac.uk/pgstudy/courses/electrical-and-electronic-engineering/electrical-technology-for-sustainable-and-renewable-energy-systems-msc.aspx

2.Renewable Energy And Distributed Generation MSc, Heriot-Watt University http://www.postgraduate.hw.ac.uk/courses/view/255/

3.Sustainable Energy, Master of Engineering Courses, University of Maryland http://advancedengineering.umd.edu/programs/sustainable-energy/masters/courses



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

Study Programme Accreditation

Clean Energy Technologies

Standard 07. Student Enrollment

MASTER ACADEMIC STUDIES

The Faculty of Technical Sciences, in accordance with social demands and its resources and approved number of students in the accreditation process, enrolls to master academic studies-Master of clean energy technologies on budget funded and self funded studies a certain number of students defined each year by the special decision of the Educational and Scientific Council of the Faculty of Technical Sciences. Students from other study programmes and persons who have completed studies which are worth at least 240 ETCS can enroll into this study programme, as defined by the Regulations on Enrolment of Students to Study Programmes.

The committee for evaluation (formed by all department heads participating in the realization of the study programme) evaluate all the passed examinations of the candidates and based on the accepted number of points determine the year of studies the candidate can enroll to.

Candidates who have compleated appropriate study programe gain right for enrollment at Master academic studies. Committee for quality control decides whether the candidates who gained right for enrollment are obligated to take entering exam. If Committee for quality control decides that examination has to be taken, candidates take the entering exam: tests in the field of study programme.

The selection and enrolment of the applied candidates is based on their success during the previous education, duration of their studies and entrance examination as defined by the Regulations on Enrolment of Students to Study Programmes.

Commitee, in accordance with the Regulations on Enrolment of Students to Study Programmes, has the right to aprove enrollment of candidates who have not completed appropriate academic studies which are worth minimum 240 ETCS, if vacancies remain after enrollment of all candidates who meet the requirements. Candidates who have not completed appropriate graduate study programme can be approved to enroll if they successfully pass entering examination. Committee, in that case, determines courses from the graduate studies that student must aditionaly take and successfully pass. Total number of ETCS credits of those aditional courses determined by Committee can not exceed 30 (thirty).

Committee for quality control members are Head of the study programme and Heads of all departments to which the courses from the study programme belong, or teachers who Heads of those departments determine, in acordance with the Regulations on Enrolment of Students to Study Programmes.



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Clean Energy Technologies



Standard 08. Student Evaluation and Progress

The final grade for each course of study program is formed by continuous monitoring of students` work and results during the academic year and the final exam.

A student masters the study program by taking exams, which result in acquiring a certain number of points. Each individual course in the program carries a certain number of points, which is achieved when a student successfully pass the exam.

The number of points is established on the basis of student's workload in mastering a particular course and using a uniform methodology of the Faculty of Technical Sciences for all study programs. The student's success in mastering a particular course is continuously monitored during the teaching, and is expressed in points. The maximum number of points a student can achieve on the course is 100.

A student is obtaining the points on the course through involvement in the teaching process and fulfillment of pre-examination obligations. The minimum number of points which a student can obtain by fulfilling the pre-examination obligations during the teaching process is 30 and the maximum number is 70.

Each course from the curriculum has a clear way of gaining points. The way of gaining points during the teaching process includes a number of points that a student can obtain on the basis of a particular type of activities during the teaching process or through performing the pre-examination obligations and taking exams.

The complete student's success on the course is expressed by grades from 5 (failed) to 10 (excellent). Assessment of student is based on the total number of points obtained by the student's fulfillment of obligations and taking exams, including the quality of acquired knowledge and skills.

In order to be allowed to pass the exam in the particular course, a student has to obtain at least 15 points based on the pre-examination obligations during the semester. Additional requirements for the exam are separately defined for each course.

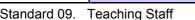
The student's progress during education is defined in the rulebook of studying intended for the master academic studies.



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

Study Programme Accreditation

Clean Energy Technologies



MASTER ACADEMIC STUDIES

For the realization of the study program of Clean energy technologies, there is the teaching staff with necessary professional and academic qualifications.

The number of teachers engaged in the realization of the study programs of graduate and master academic studies meets the requirements of the study program and depends on the number of courses and number of hours on these courses. The total number of teachers is sufficient to cover the total number of hours on the study program, so that a teacher realizes about 180 hours (lectures, consultations, exercises, practical work, ...) annually, or 6 times a week.

Number of collaborators meets the requirements of the study program. The total number of collaborators on the study program is sufficient to cover the total number of hours on exercises. The collaborators are realizing an average of 300 hours of exercises per year, or 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 from specific scientific or technical field, which is related to his teaching activities at the particular study program.

The group size for the lecture is up to 180 students, the group for exercises up to 60 students and groups for labs up to 20 students.

All data on teachers and collaborators (CV, elections for the position, references) are available to the public.



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

Study Programme Accreditation



MASTER ACADEMIC STUDIES

Clean Energy Technologies

Science, arts and professional qualifications

Name and last name:					Čelanović L. Nikola				
Academic title:					Associate Professor				
		litution	whore the to	achor works full time and					
	ng date:	litution		eacher works full time and	01.12.2008				
Scientific or art field:					Power Electronics, Machines and Facilities				
Academic carieer Year Institution			Field						
Acad	emic title el	lection:	2012	Faculty of Technical Sci	ences - Novi S	ad	Power Electronics, Machines and Facilities		
PhD	thesis		2000	Virginia Polytechnic Inst Tennessee	itute and State	University -	Power Electronics, Machines and Facilities		
Magi	ster thesis		1996	Virginia Polytechnic Inst Tennessee	itute and State	University -	Mechatronics, Robotics and Automation and Intelligent Systems		
Bach	elor's thesis	S	1994	Faculty of Technical Sci	ences - Novi S	ad	Electronics		
List c	of courses b	eing he	ld by the te	acher in the accredited stu	udy programme	es			
	ID	Course	e name			Study pro	gramme name, study type		
1.	EE305	Power	Electronics	31			er, Electronic and Telecommunication g, Undergraduate Academic Studies		
2.	EE308	Power	Electronics	32			er, Electronic and Telecommunication g, Undergraduate Academic Studies		
3.	EE425	Energ	y Converter	Control			er, Electronic and Telecommunication g, Undergraduate Academic Studies		
4.	EE520	Desigr	n of Electric	al Machines and Converte	ers	Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies			
5.	EOS13	Electri	c Power Di	stribution System for Indu	strial Plants	(E01) Pow	(E01) Power Engineering - Renewble Sources of Electrical Energy, Undergraduate Professional Studies		
6.	EOS16	Softwa	are tool is p	ower systems		(E01) Pow	ver Engineering - Renewble Sources of Electrical Indergraduate Professional Studies		
7.	EOS22	Electri	cal installat	ions of residential building	IS	(E01) Pow Energy, Ur) Power Engineering - Renewble Sources of Electrical gy, Undergraduate Professional Studies		
8.	EOS30	Electri	cal Design	Calculation Software			Power Engineering - Renewble Sources of Electrical y, Undergraduate Professional Studies		
9.	EOS27	Power	electronics	converters control		(E01) Pow Energy, Ur	ower Engineering - Renewble Sources of Electrical Undergraduate Professional Studies		
10.	DE108S	FACT	s devices a	nd power quality			Power, Electronic and Telecommunication ering, Specialised Academic Studies		
11.	DE113S	Power	Electronics	Applications in Power Sy	vstems		ower, Electronic and Telecommunication ing, Specialised Academic Studies		
12.	DE309S	Select	ed chapters	s in electrical machines tra	insients		ower, Electronic and Telecommunication ring, Specialised Academic Studies		
13.	E1SO01	Moder	n technolog	jies in electrical engineeri	ng		ower, Electronic and Telecommunication ring, Specialised Professional Studies		
14.	EE520	Desigr	n of Electric	al Machines and Converte	ers	Engineerin (E10) Pow	er, Electronic and Telecommunication g, Master Academic Studies er, Electronic and Telecommunication g, Undergraduate Academic Studies		
15.	EE545	Power Netwo		with Distribution and Tra	nsmission	(E10) Pow	er, Electronic and Telecommunication g, Master Academic Studies		
16.	ZCM11		-	tools for clean energy tecl	nnologies	— [—] — —	an Energy Technologies, Master Academic		
17.	DE309	Select Machi		s in Transient Phenomena	a in Electrical				
Rep	oresentative	e reffere	nces (minin	num 5, not more than 10)					
1.							Cascade for Wind Turbine Application," IEEE		
2.	'. Transactions on Power Electronics, vol. 23, no. 3, pp. 1136-1142, May 2008. M. Vekić, S. Grabić, D. Majstorović, I. Celanović, N. Celanović, V. Katić, "Ultra Low Latency HIL Platform for Rapid Development of Complex Power Electronics Systems", IEEE Transaction on Power Electronics, USA, ISSN 0885-8993,[Online]. Available: TPEL-Reg—2011-09-08.R1								

RSI	TAS STUD		UNIVERSITY OF NO	VI SAD		HHHKHX Hay				
AIND NEOS ANTE		FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6								
		Study Programme Accreditation								
		MASTER ACADEMIC STUDIES		Cle	an Energy Technologies	R.				
Rep	Representative refferences (minimum 5, not more than 10)									
3.	 N. Celanović, I. Celanović, Z. Ivanović: Cyber Physical Systems: A New Approach to Power Electronics Simulation, Control and Testing, Advances in Electrical and Computer Engineering, Faculty of electrical engineering and computer sciences, University of Suceava, Romania, vol. 12, Issue 1, pp. 33-38, Feb. 2012. 									
4.	D. Majstorović, I. Celanović, N. Teslić, N. Čelanović, V. A. Katić, "Ultra-Low Latency Hardware-in-the-Loop Platform for Rapid Validation of Power Electronics Designs", IEEE Transactions on Industrial Electronics, USA, ISSN: 0278-0046, Vol. 58, No.10, pp.4708-4716, Oct.2011.									
5.	Z. Ivanović, E. Adzić, M. Vekić, S. Grabić, N. Celanović, V. Katić, "HIL Evaluation of Power Flow Control Strategies for Energy Storage Connected to Smart Grid Under Unbalanced Conditions", IEEE Transaction on Power Electronics, USA, ISSN 0885-8993, Available: 10.1109/TPEL.2012.2184772									
6.	N. Čelanović, D. Boroyevic, "A fast space-vector modulation algorithm for multilevel three-phase converters", IEEE Transactioncs on Industry Applications, vol. 37, no. 2, March/April 2001.									
7.	N. Čelanovic, D. Boroyevich, "A comprehensive sudy of neutral-point balancing problem in three-level neutral-point-clamped voltage source PWM inverters", IEEE Transactions on Power Electronics, vo. 5, no. 2, March 2000.									
8.	M. Goldfarb, N. Čelanović, "A flexure-based gripper for small-scale manipulation", Robotica, Cambridge University Press, vol. 17, March 1999, pp. 181-187.									
9.	M. Goldfarb, N. Čelanović, "A Lumped-Parameter electromechanical model for descibing the nonlinear behaviour of piezoelelctric actuators" ASME Journal of Dynamic Systems, Measurement and Control, vol. 119, no. 3, 1997, pp. 478-485.									
10.	M. Goldfarb, N. Čelanović, "Modeling piezoelectric stack actuators for control of micromanipulation", IEEE Control systems magazine, vol. 17, no. 3, 1997, pp. 67-79.									
Sur	mmary data fo	or teacher's scientific or art and profe	essional activity:							
Quot	tation total :		17							
Tota	I of SCI(SSCI) list papers :	5							
Curre	ent projects :		Domestic :	0	International :	2				





Study Programme Accreditation

Clean Energy Technologies

Science, arts and professional qualifications

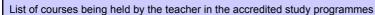
	e and last n	ame:			Gvozdenac D. Dušan			
						Full Professor		
						aculty of Technical Sciences - Novi Sad		
	starting date: 01.06.19 Scientific or art field: Thermal						Thermetechnice	
			X	1 01 0	I nermai Enei	rgetics and	Thermotechnics	
Academic carieer Year Institution					Field			
	emic title el	ection:	1993	Faculty of Technical Sci			Thermal Energetics and Thermotechnics	
	thesis		1981	Faculty of Mechanical E			Thermal Energetics and Thermotechnics	
Magi	ster thesis		1978	Faculty of Technical Sci	ences - Novi S	nces - Novi Sad Thermal Energetics and Thermotechnics		
Bach	elor's thesis	S	1973	Faculty of Technical Sci	ences - Novi S	- Novi Sad Thermal Energetics and Thermotechnics		
List c	of courses b	eing he	ld by the te	acher in the accredited stu	udy programme	s		
	ID	Course name				Study programme name, study type		
1.	EOS38	Energetski menadžment				(E01) Power Engineering - Renewble Sources of Electrical Energy, Undergraduate Professional Studies		
2.	M119	Energy	/ Transform	nations		(ZC0) Clean Energy Technologies, Undergraduate Academic Studies		
3.	M222A	Energy	/ System E	ngineering		Academic		
						(M30) Energy and Process Engineering, Undergraduate Academic Studies		
4.	M3311	Renew	able Energ	ly Sources		Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies		
5.	M3501	Refrige	eration Dev	ices		(M30) Energy and Process Engineering, Undergraduate Academic Studies		
6.	Z206	Alternative Power Engineering				(Z20) Environmental Engineering, Undergraduate Academic Studies		
7.	Z206A	Alternative Energy Sources				(Z01) Safety at Work, Undergraduate Academic Studies		
8.	Z206	Alternativna energetika(uneti naziv na engle			eskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies		
9.	E2313	Fundamentals of Process and Energy Engi			neering	(E20) Computing and Control Engineering, UndergraduateAcademic Studies(E10) Power, Electronic and Telecommunication		
10.	ll1044					Engineering, Undergraduate Academic Studies (110) Industrial Engineering, Undergraduate Academic		
10.	111044	Energy flows and energy efficiency			Studies			
11.	M211	Measu	irement and	Regulation		Academic		
					Académic			
12.	M3031	Engineering Calculations of Energy Techno Apparatus and Equipment			logies	Académic		
13.	M3494	Energy efficiency			Academic			
					(ZC0) Clean Energy Technologies, Undergraduate Academic Studies			
14.	1939	3 / 1 3 J				(M50) Energy Management, Master Academic Studies		
15.	IMDS78	Odabrana poglavlja iz energetskog menadž naziv na engleskom)		menta(uneti	(I22) Engineering Management, Specialised Academic Studies			
16.	M3503	Dinamika i modeliranje termoenergetskih postrojenja(uneti naziv na engleskom)			(M30) Energy and Process Engineering, Master Academi Studies			
17.	M3M07	Energy storage			(ZC0) Clean Energy Technologies, Master Academic Studies			
18.	M5022	Renewable energy sources			(M50) Energy Management, Master Academic Studies			
19.	SZSP24	Savremeni principi energetskog menadžmer			enta	(Z00) Environmental Engineering, Specialised Academic Studies		
20.	DM216	Energy Systems				(M00) Mechanical Engineering, Doctoral Academic Studies		
21.	DM217	Energy Management in Idustry				(M00) Mechanical Engineering, Doctoral Academic Studies		



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES



	ID	Course name		Study programme name, study type				
22.	DM218	Contemporary Energy Technologies		(M00) Mechanical Engineering, Doctoral Academic Studies				
23.	DM219	Energy Politics		(M00) Mechanical Engineering, Doctoral Academic Studies				
24	DM202	En sins suins Even view ontel Matheda		(H00) Mechatro	nics, Doctoral Academic Stu	dies		
24.	DM302	Engineering Experimental Methods		(M00) Mechanical Engineering, Doctoral Academic Studies				
25.	DM309	Energy Management Methods		(M00) Mechanical Engineering, Doctoral Academic Studies				
26.	DM332	Energy Management in Buildings		(M00) Mechanical Engineering, Doctoral Academic Studies				
27.	DM333	Renewable Energy Resoruces		(M00) Mechanic	al Engineering, Doctoral Ac	ademic Studies		
28.	ZSP24	Modern Principles of Energy Manage	ement	(Z00) Environme Studies	ental Engineering, Doctoral <i>i</i>	Academic		
29.	IMDR78	Odabrana poglavlja iz energetskog r naziv na engleskom)	nenadžmenta(uneti	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies				
Rep	oresentative	e refferences (minimum 5, not more the	an 10)					
1.	1. Energy Efficiency in Food Processing Industry – East European Experience, edited by D. Gvozdenac, UNDP/UNIDO Project DP/RER/83/003, Novi Sad, pp. 123, 1991.							
2.								
3.	Measurement and regulation (Selected chapters for operators of large power plants), Institute of energy and process engineering, Novi Sad, Gvozdenac, D, Pešenjanski, I,1980. (in Serbian).							
4.	Measurement and Regulation in Thermal Engineering, Eaculty of Technical Sciences, Gyozdenac, D. Novi Sad. 2000. (in							
5.	Bilansiranje energetskih tokova, Pokrajinski centar za energetku efikasnost, Gvozdenac, D., Marić, M., Petrović, J., Novi Sad, 2006.							
6.	Gvozdenac D, Menke C, Vallikul P, Petrovic J, Gvozdenac B: Assessment of potential for natural gas-based cogeneration in Thailand, Energy, Volume 34, Issue 4, 2009, pp 465-475							
7.	A Mathematical Model for Heat Transfer in Combustion Chambers of Steam Generators, Gulič, M, Gvozdenac, D, Transactions of the ASME Journal of Engineering for Power, Vol. 103, 1981, pp. 545 – 551.							
8.	Somcharoenwattana W, Menke C, Kamolpus D, Gvozdenac D: Study of Operational Parameters Improvement of Natural-Gas Cogeneration Plant in Public Buildings in Thailand, Energy and Buildings, Vol. 43, Issue 4, April, 2011. p. 925-934							
9.	Two-pass counter cross-flow heat exchangers with both fluids unmixed throughout, Gvozdenac, D, Waerme - und Stoffuebertragung, Vol. 20, 1986, pp. 151 – 161.							
10.	Analytical Solution of the Transient Response of Gas-to-Gas Cross-flow Heat Exchanger With Both Fluids Unmixed, Gvozdenac, D.D, ASME Journal of Heat Transfer, Vol. 108, 1986, pp. 722-727.							
Sun	Summary data for teacher's scientific or art and professional activity:							
Quot	Quotation total : 71							
Total	Total of SCI(SSCI) list papers : 26							
Curre	Current projects : Domestic : 2 International : 1							



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

Study Programme Accreditation

Clean Energy Technologies

Science, arts and professional qualifications

MASTER ACADEMIC STUDIES

Name and last name:					Hadžistević J. Miodrag			
Academic title:					Associate Professor			
Name of the institution where the teacher works full time and					Faculty of Technical Sciences - Novi Sad			
starting date:					01.02.1993			
Scientific or art field:					Metrology, Q	uality, Fixtur	res and Ecological-Engineering Aspects	
Acad	emic cariee	er	Year	Institution			Field	
Academic title election: 2010 Faculty of Technical Scie			ences - Novi Sad		Metrology, Quality, Fixtures and Ecological- Engineering Aspects			
PhD thesis		2004	Faculty of Technical Sciences - Novi Sad		ad	Metrology, Quality, Fixtures and Ecological- Engineering Aspects		
Magister thesis		1999	Faculty of Technical Sciences - Novi Sad		ad	Metrology, Quality, Fixtures and Ecological- Engineering Aspects		
Bach	elor's thesis	5	1992	Faculty of Technical Sci	ences - Novi S	ad Cutting Processing Tools and Tribology		
List o	f courses b	eing he	ld by the te	acher in the accredited stu	udy programme	es		
	ID	Course	e name			Study pro	ogramme name, study type	
1.	P1401	Fixture	e Design an	d Measuring Machines		(P00) Pro Studies	duction Engineering, Undergraduate Academic	
						(P00) Production Engineering, Undergraduate Academic Studies		
2.	P1508	Revers	Reverse Engineering and CAQ			(SE0) Software Engineering and Information Technologies Undergraduate Academic Studies		
						(SEL) Software Engineering and Information Technologies Loznica, Undergraduate Academic Studies		
3.	P209	Measu	iremente ar	Ùndergra			140) Technical Mechanics and Technical Design, idergraduate Academic Studies	
5.	1 203	Measurements and Quality				(P00) Production Engineering, Undergraduate Academic Studies		
4.	P306	Fixtures				(P00) Production Engineering, Undergraduate Academic Studies		
5.	URZP15	P15 Work safety during interventions				(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies		
6.	Z207	7 Mechanical Engineering in Environmental E			Engineering	(Z20) Environmental Engineering, Undergraduate Academic Studies		
7.	Z207A	Mechanical Engineering in Environmental E			Engineering	(Z01) Safe	ety at Work, Undergraduate Academic Studies	
					(Z01) Safe	ety at Work, Undergraduate Academic Studies		
8.	Z301	Pollution Measurement and Control				(Z20) Envi Studies	ronmental Engineering, Undergraduate Academic	
9.	Z416	EMS Systems				(Z20) Envi Studies	ronmental Engineering, Undergraduate Academic	
10.	ZR101	Introduction and Principles of Occupational			Safety	(Z01) Safety at Work, Undergraduate Academic Studie		
11.	ZR404	Occupational Safety Systems, Means and I			Equipment	(Z01) Safety at Work, Undergraduate Academic Studi		
12.	Z207	Mašinstvo u inženjerstvu zaštite životne sre naziv na engleskom)			edine(uneti	(Z20) Environmental Engineering, Undergraduate Acader Studies		
13.	Z416	EMS sistemi(uneti naziv na engleskom)				(Z20) Environmental Engineering, Undergraduate Acade Studies		
14.	IM1714	Introduction and principles of occupational on health and safety			occupational	(I20) Engineering Management, Undergraduate Academic Studies		
15.	ZC036	Measurement and control of pollution				(ZC0) Clean Energy Technologies, Undergraduate Academic Studies		
16. P1409 Material Control Systems and CAI				(PM0)Pro	oduction Engineering, Master Academic Studies			
17.	7. P1501 Ecological Technologies and Systems				(M40) Teo Academic	chnical Mechanics and Technical Design, Master Studies		
						(PM0)Pro	oduction Engineering, Master Academic Studies	
18.	Z416A	Environment Protection System Management			ent	(PM0) Production Engineering, Master Academic Studies		
19.	Z452	Design and maintenance of quality control in environmental engineering			n	(M40) Technical Mechanics and Technical Design, Master Academic Studies		

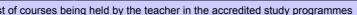




FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6

Study Programme Accreditation

MASTER ACADEMIC STUDIES



List of courses being held by the teacher in the accredited study programmes							
	ID Course name			Study programme name, study type			
20.	PLIS1	Logistics and Simulation in Technolo Processing	ogies of Plastics	(PM0) Production Engineering, Master Academic Studies			
21.	PP103	Measurement and tools in precision	engineering	(PM0) Production Engineering, Master Academic Studies			
22.	SDOM3 0	Probability, Statistics and Theory of Experiment	Engineering	(Z00) Environmental Engineering, Specialised Academic Studies			
23.	SM3	Software support for reverse engine	ering and CAQ	(PM0) Production Engineering, Master Academic Studies			
24.	SZSP18	Contemporary scientific approaches assessment of products (LCA)	in life cycle	(Z00) Environmental Engineering, Specialised Academic Studies			
25.	ZCM09	Occupational Health and Safety		(ZC0) Clean Energy Technologies, Master Academic Studies			
26.	ZR406A	System Regulations and EU Practic Health and Safety	e in Occupational	(Z01) Safety at Work, Master Academic Studies			
27.	DOM30	Probability, Statistics and Theory of Experiment	Engineering	 (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies 			
28.	DP001	Design and Research Methods in Pr	oduction	(M00) Mechanical Engineering, Doctoral Academic Studies			
20. 29.	DP001	Engineering State and development trends of me	trology, quality and	(M00) Mechanical Engineering, Doctoral Academic Studies			
30.	DP013	fixtures Ecological Engineering Aspects		(M00) Mechanical Engineering, Doctoral Academic Studies			
31.	DP019	Selected topics in technical diagnos	s	(M00) Mechanical Engineering, Doctoral Academic Studies			
32.	ZSP18	Modern Scientific Approaches in Pro Assessment (LCA)		(Z00) Environmental Engineering, Doctoral Academic Studies			
33.	ZRD211			(Z01) Safety at Work, Doctoral Academic Studies			
34.	ZRD213	Current state and development tendencies of quality		(Z01) Safety at Work, Doctoral Academic Studies			
35.	ZRD235	Systemic regulation in the field of oc	cupational safety	(Z01) Safety at Work, Doctoral Academic Studies			
Representative refferences (minimum 5, not more than 10)							
1.	Matin L Hadžistević M. Hodolič L. Vukelić Đ. Lukić D.: A CAD/CAE Integrated Injection Mold Design System for Plastic						
2.	Brajlih T., Tasić T., Drštvenček I., Valentan B., Hadžistević M., Pogačar V., Balić J., Ačko B.: Possibilities of Using Three-						
3.	Sekulić M., Jurković Z., Hadžistević M., Gostimirović M.: The influence of mechanical properties of workpiece material on the						
4.	Morača S., Hadžistević M., Drstvenšek I., Radaković N.: Application of Group Technology in Complex Cluster type Organizational Systems, Strojniski vestnik = Journal of Mechanical Engineering, 2010, Vol. 56, No 10, pp. 663-675, ISSN 0039-2480						
5.	Radlovački V., Kamberović B., Delić M., Hadžistević M., Pečujlija M.: ARE QUALITY MANAGEMENT SYSTEM AND INFORMATION TECHNOLOGIES MANAGEMENT TOOLS - ESTIMATES OF SERBIAN QUALITY MANAGERS, INTERNATIONAL JOURNAL ADVANCED QUALITY, 2012, Vol. 40, No 1, pp. 33-36, ISSN 2217-8155, UDK: 658.5						
6.	Stević, M.: Povećanje tačnosti merenja numerički upravljanih mernih mašina, edicija tehničke nauke - monografija, FTN izdavaštvo, ISBN 86-7892-028-9, Novi Sad, 2006.						
7.	Hadžistević M., Morača S.: Networks and Quality Improvement, International Journal for Quality Research, 2009, Vol. 3, No 4, pp. 353-361, ISSN 1800-6450						
8.	Lomen, I., Cvetićanin, L., Hodolič, J., Stević, M.: Softwarova aplikacia na určenie hladiny hluku v priemyselnych podnikoch, Časopis Acta Mechanica Slovaca, 2/2002, Ročnik 6., pp. 165-168, Košice, Slovačka, 2002.						
9.	Hodolič J., Budak I., Vukelić Đ., Agarski B., Hadžistević M.: Less Formal Tools for Environmental Management in Production Industry, 2. International Symposium on Environmental and Material Flow Management - EMFM, Zenica: Faculty of Mechanical Engineering in Zenica, University of Zenica, 7-9 Jun, 2012, pp. 1-15, ISBN 978-9958-617-46-1						
10.	Agarski B., Budak I., Puškar T., Vukelić Đ., Marković D., Hadžistević M., Hodolič J.: Multi-criteria assessment of environmental and occupational safety measures in dental prosthetics laboratories, Journal of Production Engineering, 2012, Vol. 15, No 1, pp. 53-56, ISSN 1821-4932						
Summary data for teacher's scientific or art and professional activity:							
	ation total :		20				
	`	CI) list papers :	9				
Current projects : Domestic : 2 International : 2							



Study Programme Accreditation



MASTER ACADEMIC STUDIES

Clean Energy Technologies

New	Name and last name:					Jovanović S. Aleksandar		
	Name and last name: Academic title:				Full Professor			
	Name of the institution where the teacher works full time and				-			
	ng date:							
Scier	ntific or art f	ield:			Thermal Ener	getics and	Thermotechnics	
Acad	emic cariee	er	Year	Institution			Field	
Acad	emic title el	ection:	2001	Faculty of Technical Sci			Thermal Energetics and Thermotechnics	
	thesis	- 11 - 4	1986	Faculty of Mechanical E	ngineering - Be	ograd	Mechanical Engineering	
Thes	ation Speci is	alist	1983	Faculty of Mechanical E	ngineering - Be	ograd	Mechanical Engineering	
Magi	ster thesis		1982	Faculty of Mechanical E	ngineering - Be	eograd	Mechanical Engineering	
Bach	elor's thesis	S	1977	Faculty of Mechanical E	ngineering - Be	eograd	Mechanical Engineering	
List o	f courses b	eing he	Id by the te	acher in the accredited stu	udy programme	S		
	ID	Course	e name			Study pro	ogramme name, study type	
1.	1079	Moder	n Energy T	echnologies		. ,	ergy Management, Master Academic Studies an Energy Technologies, Undergraduate Studies	
2.	M3302	Therm	oenergy Pl	ants		(M30) Ene Academic	ergy and Process Engineering, Undergraduate Studies	
3.	M3405	Therm	al Turbines	1		(M30) Ene Academic	ergy and Process Engineering, Undergraduate Studies	
4.	M3409A	Moder	n Energy T	echnologies		(M30) Energy and Process Engineering, Undergraduate Academic Studies		
5.	M3045	Life cy equipn		ation of the energy and pro	ocess	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies		
6.	M3495	Therm	a Energy E	kuipment		(M30) Energy and Process Engineering, Undergraduate Academic Studies		
7.	1079	Modern Energy Technologies				(M50) Energy Management, Master Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies		
8.	1916	Energy	y Managem	ent in Industry		(M50) Energy Management, Master Academic Studies		
9.	1939	Meren	je, nadzor i	upravljanje		(M50) Energy Management, Master Academic Studies		
10.	M3M04	Risk N	lanagemen	t		(ZC0) Cle Studies	an Energy Technologies, Master Academic	
11.	DM218			ergy Technologies			chanical Engineering, Doctoral Academic Studies	
12.	DM308	Equipr		peration Life of Energy an	d Process	(M00) Me	chanical Engineering, Doctoral Academic Studies	
13.	DM315		Systems			(M00) Mechanical Engineering, Doctoral Academic Studies		
14.	DM316	Risk T	echnologie	8		(M00) Me	chanical Engineering, Doctoral Academic Studies	
15.	DM332		, 0	ent in Buildings		(M00) Me	chanical Engineering, Doctoral Academic Studies	
Rep 1.	Jovanovi	c, A., Kı	ussmaul, K.				structural Safety Assessment: Proceedings of an sering), vol. 53, Springer-Verlag, 1989, p. 493,	
	ISBN: 97	8-3-540	-51823-5.		•	Ū.	nagement Policies, OECD Publishing, Paris,	
2.	France, 2	012, IS	BN: 978-92	-64-17345-3.			Kojic, M.: Modelling of self-healing materials	
3.	using dis	crete an	d continuu	n methods, Surface Coati	ngs Internation	al, 2012, Vo	Nojić, M.: Modeling of sen-riealing materials ol. 95, No. 2, pp. 74-79, ISSN: 1754-0925. Risk Research, 2012, DOI:	
4.	10.1080/	1366987	77.2012.72	9516, ISSN: 1366-9877.				
5.	Risk, Jou	rnal of F	Risk Resea	rch, 2012, DOI:10.1080/13	3669877.2012.	743162., IS		
6.	technolog	gies, Jou	urnal of Ris	k Research, 2012, DOI:10	.1080/1366987	7.2012.729		
7.				RIMAP project and its deliv ol. 81, No. 10-11, pp. 815			ver plants, International Journal of Pressure	

SITAS STUD UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 Study Programme Accreditation MASTER ACADEMIC STUDIES **Clean Energy Technologies** Representative refferences (minimum 5, not more than 10) Bareiß, J., Buck, P., Matschecko, B, Jovanovic, A., Balos, D., Perunicic, M.: RIMAP demonstration project. Risk-based life management of piping system in power plant Heilbronn, International Journal of Pressure Vessels and Piping, 2004, Vol. 81, 8 No.10-11, pp. 807-813, ISSN: 0308-0161. Jovanovic, A., Maile, K., Wagemann, G., Le Mat-Hamata, N., Gampe, U., Andersson, P., Segle, S., Gelineau, O.: Assessment of 9 cracks in power plant components by means of the HIDA knowledge-based system (KBS), International Journal of Pressure Vessels and Piping, 2001, Vol. 78, No. 11-12, pp. 1053-1069, ISSN: 0308-0161. Jovanovic, A.: Risk-based inspection and maintenance in power and process plants in Europe, Nuclear Engineering and Design, 10. 2003, Vol. 226, No. 2, pp. 165-182, ISSN: 0029-5493. Summary data for teacher's scientific or art and professional activity: 59 Quotation total Total of SCI(SSCI) list papers : 18 Current projects : Domestic : 2 International : 5



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Study Programme Accreditation

MASTER ACADEMIC STUDIES

Clean Energy Technologies

Nerici	0 00-1 1+	00000				min		
	Name and last name: Academic title:				Katić A. Vladimir			
	Name of the institution where the teacher works full time and				Full Professor Faculty of Technical Sciences - Novi Sad			
	e of the insi ng date:	utution v	vnere the te	eacher works full time and	01.10.1978			
	ntific or art f	ield:			Power Electronics, Machines and Facilities			
	emic carie		Year	Institution	2	,	Field	
	emic title e		2002	Faculty of Technical Sci	ences - Novi S	ad	Power Electronics, Machines and Facilities	
	thesis		1991	School of Electrical Eng			Electrical and Computer Engineering	
Magi	ster thesis		1981	School of Electrical Eng	<u> </u>	,	Electrical and Computer Engineering	
Bach	elor's thesis	s	1978	Faculty of Technical Sci	<u> </u>	,	Electrical and Computer Engineering	
List c	of courses b	eing he	ld by the te	acher in the accredited stu				
	ID	Course	e name			Study pro	gramme name, study type	
1.	EE305	Power	Electronics	s 1			er, Electronic and Telecommunication g, Undergraduate Academic Studies	
2.	EE308	Power	Electronics	32			er, Electronic and Telecommunication g, Undergraduate Academic Studies	
	_					· /	ety at Work, Undergraduate Academic Studies	
3.	Z107	Electri	cal Enginee	ering, Environment and Pr	otection	(Z20) Envir Studies	ronmental Engineering, Undergraduate Academic	
4.	EE0406	Electri	c Power Qu	Jality			er, Electronic and Telecommunication g, Undergraduate Academic Studies	
5.	EE431	Renev	vable Sourc	es and Small Power Plan	ts		er, Electronic and Telecommunication g, Undergraduate Academic Studies	
6.	EZ300	Clean	Electrical E	nergy Sources		(ZC0) Clean Energy Technologies, Undergraduate Academic Studies		
7.	EZ400	Clean Energy Sources Design				(ZC0) Clean Energy Technologies, Undergraduate Academic Studies		
8.	DE209S	Energy Converters in Renewable Energy S			ources	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies		
9.	DE413S	Integra	ation of Dist	ributed Energy Resources	3	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies		
10.	DE505S	Power	Quality in I	Distribution Networks		(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies		
11.	DE506S	Renev	vable Electr	ical Energy Sources			ver, Electronic and Telecommunication g, Specialised Academic Studies	
12.	DE509S		s of Power (nment	Converters on Network an	d		ver, Electronic and Telecommunication g, Specialised Academic Studies	
13.	EE406	Electri	c Power Qu	Jality			er, Electronic and Telecommunication g, Master Academic Studies	
14.	EE509	Marke	t and Dereg	gulation in Electric Power	Industry		er, Electronic and Telecommunication g, Master Academic Studies	
15.	S0I51Ž	Electri	cal Substat	ion and Electric Traction		(S00) Traf Studies	fic and Transport Engineering, Master Academic	
16.	EE544	Renev	vable energ	y sources			er, Electronic and Telecommunication g, Master Academic Studies	
17.	EE564	Distributed Energy Resources				Èngineerin	er, Electronic and Telecommunication g, Master Academic Studies	
18.	ZCM02	Clean technologies for electrical vehicles				(ZC0) Clea Studies	an Energy Technologies, Master Academic	
19.	ZCM08	Renev	vable and D	Distributed Electrical Energ	y Sources	Studies	an Energy Technologies, Master Academic	
20.	DE108	FACTS Devices and Electric Power Quality				(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies		
21.	DE113	Applic	ation of Pov	ver Electronics in Power S	Systems	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies		
22.	DE209	Energy	y Converter	s in Renewable Power Sc	ources		ver, Electronic and Telecommunication g, Doctoral Academic Studies	

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Clean Energy Technologies

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

4	LANTER	MASTER ACADEMIC STUDIES	Clean Energy Technologies
List o	of courses b	peing held by the teacher in the accre	dited study programmes
	ID	Course name	Study programme name, study type
23.	DE413	Integration of Distributed Energy Re	esources (E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
24.	DE505	Power Quality in Distribution Netwo	rks (E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
25.	DE506	Renewable Electrical Energy Sourc	es (E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
26.	DE509	Effects of Power Converters on Net Environment	twork and (E10) Power, Electronic and Telecommunication 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 Academ Studies
			(F20) Engineering Animation, Doctoral Academic Studies
			(G00) Civil Engineering, Doctoral Academic Studies
27.	SID04	Current State in the Field	(GI0) Geodesy and Geomatics, Doctoral Academic Studie
	01201		(H00) Mechatronics, Doctoral Academic Studies
			(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
			(M00) Mechanical Engineering, Doctoral Academic Studie
			(OM1) Mathematics in Engineering, Doctoral Academic Studies
			(S00) Traffic Engineering, Doctoral Academic Studies
			(Z00) Environmental Engineering, Doctoral Academic Studies
28.	MSID04	Present State in the Field	(M40) Technical Mechanics, Doctoral Academic Studies
			(A00) Architecture, Doctoral Academic Studies
29.	SID04	Present State in the Field	(AS0) Scenic Design, Doctoral Academic Studies
			(Z01) Safety at Work, Doctoral Academic Studies
Rep	oresentative	e refferences (minimum 5, not more th	han 10)
1.		Katić: "Kvalitet električne energije – v nauke - Monografije, Br. 6, Novi Sad	riši harmonici", Univerzitet u Novom Sadu - Fakultet tehničkih nauka, Edicija J. 2002., ISBN 86-80249-57-2.
2.			a rešenih zadataka", Univerzitet u Novom Sadu-Fakultet tehničkih nauka, Edicija 98, tiraž 500 primeraka, strana 430, Pomoćni udžbenik, ISBN 86-499-0017-8.
3.	Sadu-Fal		ac: "Energetska elektronika – Praktikum laboratorijskih vežbi", Univerzitet u Novom zitetski udžbenik, Broj 124, Novi Sad, 2000, tiraž 300 primeraka, strana 85, Pomor
4.	u Novom		: "Primena mikroprocesora u energetici – Praktikum laboratorijskih vežbi", Univerz ija: Tehničke nauke - Udžbenici, Broj 149, Novi Sad, Dec. 2006, tiraž 300 primeral -013-0.
5.		Katić: "Upravljanje energetskim pretva	aračima", Fakultet tehničkih nauka – WUS, Novi Sad, 2006, tiraž 20 primeraka,
6.			Power Quality Problems Compensation with Universal Power Quality Conditionin γ, USA, ISSN 0885-8977, Vol.22, No.2, April 2007, pp.968-976.
7.			ac: "Application-Oriented Comparison of the Methods for AC/DC Converter dustrial Electronics, USA, ISSN 0278-0046, Vol.50, No.6, December 2003, pp.110
8.		-	PWM Rectifier Line Side Filter Optimization in Transient and Steady States", IEEE 10885-8993, Vol.17, No.3, May 2002, pp.342-352.
9.			trol Of Current Source Type Active Rectifier Using Transfer Function Approach", SA, ISSN 0278-0046, Vol.48, No.3, June 2001, pp.526-535.
10.		Katić: "Modern Power Electronics Teo H-R.Srpska), Vol.10, No.2, Dec.2006,	chnologies for Wind Power Plants", Invited Paper, Electronics/Elektronika, Banja , YU ISSN 1450-5843, pp.3-9.
		for teacher's scientific or art and prof	fessional activity:
	ation total :		122
Tota	of SCI(SS	CI) list papers :	19

STAS STUD		WHKHX H				
A DOR	FACULTY OF TECHNICAL SCI					
720005	Study F	Programme A	ccreditatio	creditation		
OPLANTER S	MASTER ACADEMIC STUDIES		Cle	an Energy Technologies	HOS	
Current projects :		Domestic :	5	International :	1	



Study Programme Accreditation



MASTER ACADEMIC STUDIES

Clean Energy Technologies

Name and last name:					Katić A. Nena	ad		
Academic title:					Assistant Pro	fessor		
	e of the inst ng date:	titution v	where the te	eacher works full time and	-			
Scier	ntific or art f	ield:			Electroenerge	etics		
Acad	emic cariee	er	Year	Institution			Field	
Acad	emic title el	lection:	2008	Faculty of Technical Sci	ences - Novi S	ad	Electroenergetics	
PhD	thesis		2002	Faculty of Technical Science	ences - Novi S	ad	Electroenergetics	
Magi	ster thesis		1991	School of Electrical Engi	ineering - Beog	jrad	Electroenergetics	
Bach	elor's thesis	S	1982	Faculty of Technical Science	ences - Novi S	ad	Electroenergetics	
List c	of courses b	eing he	d by the te	acher in the accredited stu	udy programme	es		
	ID	Course	e name			Study pro	gramme name, study type	
1.	EOS35	Tržište	električne	energije		Energy, Ur	ver Engineering - Renewble Sources of Electrical ndergraduate Professional Studies	
2.	EE0406	Electri	c Power Qu	ality		Èngineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies	
3.	ESI006	Introdu	iction to cri	tical mission software for p	oower grids	Academic		
4.	ESI012	Smart	Grid Netwo	orks		Academic		
5.	EZ301	Cost-e	ffective and	d energy-efficient electrica	l systems	Academic		
6.	DE107S	Decisio	on-Making	Optimization		(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies		
7.	DE312S	Power	Market and	d Regulation		(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies		
8.	DE405S	Smart Grid Networks				(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies		
9.	DE406S	Electric Power Industry in the Free Market B			Economy	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies		
10.	DE508S	Power	System Ec	conomics		(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies		
11.	EE406	Electri	c Power Qı	ality		(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies		
12.	EE509	Market	t and Dereg	gulation in Electric Power I	Industry	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies		
13.	EE510	Econo	mic Method	ls in Electric Power Indust	try		er, Electronic and Telecommunication g, Master Academic Studies	
14.	EE544	Renew	able energ	y sources			er, Electronic and Telecommunication g, Master Academic Studies	
15.	ZCM02	Clean	technologie	es for electrical vehicles		(ZC0) Clea Studies	an Energy Technologies, Master Academic	
16.	ZCM05	Electri	c Power Ma	arket		(ZC0) Clea Studies	an Energy Technologies, Master Academic	
17.	ZCM08	Renew	able and D	istributed Electrical Energ	y Sources	(ZC0) Clea Studies	an Energy Technologies, Master Academic	
18.	DE107	Decisi	on-Making	and Ontimization		Èngineerin	ver, Electronic and Telecommunication g, Doctoral Academic Studies	
10.	00107	Decision-Making and Optimization			(OM1)Ma Studies	thematics in Engineering, Doctoral Academic		
19.	DE312	Electri	city Market	s and Regulation			ver, Electronic and Telecommunication g, Doctoral Academic Studies	
20.	DE405	Smart Grid Networks					ver, Electronic and Telecommunication g, Doctoral Academic Studies	
21.	DE406	Electric Power Industry in the Free Market			Economy	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies		
22.	DE508	Power	System Ec	conomics		· · ·	ver, Electronic and Telecommunication g, Doctoral Academic Studies	

ASITAS STUDIO		UNIVERSITY OF N	OVI SAD	WYKNX H			
		FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6					
NO. NE		Study Programme	Accreditation	A Too			
9	LANTER	MASTER ACADEMIC STUDIES	Clean Energy Technologies	Ho			
Re	presentative r	efferences (minimum 5, not more than 10)					
1.		avić M.: Autori: Nenad Katic, Milan Savic Naziv: Techning protection, IEE ProcGener.Transm.Distrib, 1998, No		wer distribution			
2.		umnić B., Katić N., Milićević D., Grabić S.: Potentials an nternational Scientific Journal, 2012, Vol. 16, ISSN 0354		ina, Thermal			
3.		/., Katić N., Janjić D.: Voltage Control Integrated in Dist 2001, No 60, pp. 85-97	tribution Management System, Electrical Power	System			
4.	Katić N.: Y pp. 30-35	/ugoslavia Develops a New Distribution Management Sy	vstem , Utility Automation, USA, a PennWell Pul	blication, 1996,			
5.	,	umnić B., Čorba Z., Milićević D., Katić N.: Potentials of l IEEE International Conference on European Energy Ma 34-4	6,				
6.		larijanović V., Stefani I.: Smart Grid Solutions in Distribu e on Electricity Distribution ICED, Nanjing, 12-16 Septen		International			
7.	Conference	PROFITABILITY OF SMART GRID SOLUTION APPLICA e and Exibition on Power Generation, Transmission, , 2010, pp. 1-6	ATION IN DISTRIBUTION NETWORK, 7. Medite Distribution and Energy Conversion, Agia Napa,				
8.	Katić N., Strezoski V., Popović D.: Business Benefits of DMS Software Application in Competitive Distribution, 17th International Conference on Electricity Distribution CIRED						
9.	Katić N., Strezoski V., Popović D.: DMS Software Applications a Powerful Tool for the New Challenges in Deregulated Power Distribution, Balkan Power Conference						
10.	Katić N., St	trezoski V., Katić V.: Introducing the Management and	ECTS in Electrical Power Engineering Education	n, ISIRR			

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



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Clean Energy Technologies

Name							1	
						Martinov L. Milan		
					Full Professo			
	of the inst g date:	itution w	where the te	acher works full time and	Faculty of Te	echnical Sciences - Novi Sad		
	tific or art fi	eld.			Biosystems E	naineerina		
	emic cariee		Year	Institution		ingineering	Field	
	emic title el		1999	Faculty of Technical Sci	ences - Novi S	ad	Biosystems Engineering	
	elor's thesis		2000	Faculty of Mechanical E			Mechanical Engineering	
PhD th		,	1988	Faculty of Technical Sci			Biosystems Engineering	
	ter thesis		1981	Faculty of Agriculture - 2			Biosystems Engineering	
		eina hel		acher in the accredited stu		s		
	ID	Course	e name				gramme name, study type	
1.	M2407	Biosys	tem Machir	nes 2		Undergrad	chanization and Construction Engineering, uate Academic Studies	
							chatronics, Undergraduate Academic Studies	
2.	M304	Biosvo	tem Machir	1 1			chanization and Construction Engineering, uate Academic Studies	
∠ .	101304	DIOSYS	Certri WidChilf	IC3		0	uate Academic Studies hnical Mechanics and Technical Design,	
							uate Academic Studies	
3.	URZP54	Device	es in the Pro	ocess Industry			aster Risk Management and Fire Safety, uate Academic Studies	
4.	Z475A	Enviro	nmental en	gineering in biosystems		(Z20) Environmental Engineering, Undergraduate Academic Studies		
						(ZC0) Clean Energy Technologies, Undergraduate		
5.	Z476	Energy and renewable energy sources in rural areas			ural areas	Academic Studies (720) Environmental Engineering Undergraduate Academic		
						(Z20) Environmental Engineering, Undergraduate Academic Studies		
6.	ZRI421	, , ,			-	(Z01) Safety at Work, Undergraduate Academic Studies		
7.	Z475	Inženjerstvo zaštite životne sredine u biosisto naziv na engleskom)				(Z20) Environmental Engineering, Undergraduate Academic Studies		
8.	Z476			vi izvori energije u ruralnir aziv na engleskom)	m	(Z20) Environmental Engineering, Undergraduate Academic Studies		
9.	H2405	IT in B	iosystems			l` í	chatronics, Master Academic Studies chanization and Construction Engineering, Master	
						Academic Studies		
10.	M2651	Tractor	rs			(M22) Mechanization and Construction Engineering, Master Academic Studies		
11.	M2652	Agricul	ltural machi	nery for renewable energ	y sources	(M22)Meo Academic	chanization and Construction Engineering, Master Studies	
12.	Z477	Sustair	nable Agric	ulture Engineering		(Z20) Environmental Engineering, Master Academic Stu		
13.	Z478A			ology support sustainable		(Z20) Envii	ronmental Engineering, Master Academic Studies	
14.	Z477	Inženje engles		ve poljoprivrede(uneti naz	ziv na	(Z20) Envii	ronmental Engineering, Master Academic Studies	
15.	Z478	Inform	aciono-tehr	ološka podrška održivom naziv na engleskom)	razvoju	(Z20) Envii	ronmental Engineering, Master Academic Studies	
16.	H797			hechanization - advanced	topics	(H00) Mer	chatronics, Master Academic Studies	
17.	SZSP14			proach to the biosystems	•	, ,	ironmental Engineering, Specialised Academic	
18.	SZSP16	Engineering of renewable enery sources in ag			agriculture	(Z00) Environmental Engineering, Specialised Academic Studies		
19.	SZSP18			entific approaches in life o oducts (LCA)	cycle	(Z00) Environmental Engineering, Specialised Academic Studies		
20.	ZCM12					(ZC0) Clean Energy Technologies, Master Academic Studies		
21.	ZR406A	Health	and Safety			(Z01) Safety at Work, Master Academic Studies		
22.	DM207	Standardization in biosystems engineering relate			related to the	(Z01) Safe	ety at Work, Doctoral Academic Studies	



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Clean Energy Technologies

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

List o	List of courses being held by the teacher in the accredited study programmes							
	ID	Course name		Study program	me name, study type			
23.	DOM24	Procedure and Machines for Sustain	able Agriculture	(M00) Mechanio	ademic Studies			
24.	HDOK11	Advanced Application of ICT in Agric	culture	(H00) Mechatro	nics, Doctoral Academic Stu	udies		
25.	HDOL11	Advanced application of ICT in agric	ulture	(H00) Mechatro	nics, Doctoral Academic Stu	udies		
26.	ZSP14	Contemporary Approaches to Susta Biosystems	inable Engineering	(Z00) Environm Studies	ental Engineering, Doctoral	Academic		
27.	ZSP16	Engineering of Denowable Energy is	Agriculture	(OM1) Mathema Studies	atics in Engineering, Doctor	al Academic		
27.	25210	Engineering of Renewable Energy ir	ragriculture	(Z00) Environm Studies	ental Engineering, Doctoral	Academic		
28.	ZRD235	Systemic regulation in the field of oc and health	cupational safety	(Z01) Safety at	Work, Doctoral Academic S	tudies		
Rep	oresentative	refferences (minimum 5, not more th	an 10)					
1.	 Bojić S., Golub M., Müller J., Obradović R., Martinov M.: Convective drying of naked seeded oil pumpkin seeds (Cucurbita pepo L.) in a medium scale batch dryer with different modes of air circulation., Zeitschrift für Arznei- und Gewürzpflanzen, 2012, Vol. 17, No 3, pp. 108-115, ISSN 1431-9292 							
2.	Datkov D. Effondorger M. Lobner A. Martinov M. Tožić M. Granauer A.: New method for associate the performance of							
3.	based po	., Martinov M., Bojić S., Đatkov Đ., Pa sitioning devices using a specially de am, the Netherlands, 2011, Vol. 76, No	signed testing facility,	0 ,				
4.		I., Martinov M., Dallemand J.: Assess and limitations for bioenergy use, Wa						
5.		n M., Starcevic N., Martinov M., Maur 2544-2548	er C., Mueller J.: App	licability of biogas	s digestate as solid fuel, Fue	el, 2010, Vol. 89,		
6.		M, Mujic I, Müller J. 2007. Impact of d t für Arznei- und Gewürzpflanzen, 12(on course of dryir	ng and quality of Hypericum	perforatum L.		
7.		M., Veselinov B., Bojić S., Đatkov Đ.: International Scientific Journal, 2011				el, Thermal		
8.	, ,	Mujić, I., Martinov, M., Velić, D., Bilić istic of wild asparagus Czech Journal	,		drying procedure on colour a	and rehydration		
9.		S, Martinov, M. 2007. Medicinal and A Press, New York.	Aromatic Crops, Harve	sting, Drying and	Processing, Haworth Food	and Agricultural		
10.	Martinov, M., Tesic, M. and M. Ilic. 2006. Latest developments on RES policy, implementation and planning in Serbia. Workshop:							
Sun	nmary data	for teacher's scientific or art and profe	essional activity:					
	ation total :		20					
		CI) list papers :	10					
Curre	rrent projects : Domestic : 4 International : 1							



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

THE REAL PROPERTY OF

Study Programme Accreditation

Clean Energy Technologies

		-						
Name and last name: Academic title:					Petrović R. Jovan			
					Associate Professor			
				eacher works full time and	, ,	Faculty of Technical Sciences - Novi Sad 01.01.1982		
	ntific or art f	ield [.]			Thermal Ene	raetics		
	emic carie		Year	Institution		geneo	Field	
	emic title e		2012	Faculty of Technical Sci	ences - Novi S	ad	Thermal Energetics	
	thesis		2007	Faculty of Technical Sci			Thermal Energetics and Thermotechnics	
	ster thesis		2002	Faculty of Agriculture - N			Process Technics	
	elor's thesis	s	1978	Faculty of Technical Sci		ad	Thermal Energetics and Thermotechnics	
		-		acher in the accredited stu				
	ID	Course	e name			Study pro	gramme name, study type	
						(M50) Ene	ergy Management, Master Academic Studies	
1.	1079	Moder	n Energy T	echnologies			an Energy Technologies, Undergraduate	
						Academic	Studies	
2.	M3304	Boiler	Plants			(M30) Ene Academic	ergy and Process Engineering, Undergraduate Studies	
3.	M3406	Heat A	pparatus			(M30) Ene Academic	ergy and Process Engineering, Undergraduate Studies	
4.	M3409A	Moder	n Energy T	echnologies		(M30) Ene Academic	ergy and Process Engineering, Undergraduate	
5.	Z306	Proces	ss Engineer	ing		(Z20) Environmental Engineering, Undergraduate Academic Studies		
						(Z01) Safety at Work, Undergraduate Academic Studies		
6.	Z306A	Proces	ss Engineer	ing		(ZC0) Clean Energy Technologies, Undergraduate Academic Studies		
7.	Z412A	Proces	ss apparatu	s for protecting the enviro	nment	(Z20) Environmental Engineering, Undergraduate Academic		
8.	Z412			za zaštitu okoline(uneti na	ziv na	Studies (Z20) Environmental Engineering, Undergraduate Academic		
0.	2712	engles	kom)			Studies		
9.	M211	Measi	irement and	d Regulation	(M30) Energy and Process Engineering, Undergrad Academic Studies			
0.	1012 1 1	incust		regulation		(ZC0) Clean Energy Technologies, Undergraduate Academic Studies		
10.	M3041	Cogen	eration faci	lities		(ZC0) Clean Energy Technologies, Undergraduate Academic Studies		
	MORE	F				(M30) Energy and Process Engineering, Undergraduate Academic Studies		
11.	M3494	Energy	Energy efficiency			(ZC0) Clean Energy Technologies, Undergraduate Academic Studies		
		_				(M30) Ene Academic	ergy and Process Engineering, Undergraduate Studies	
12.	M3497	Energy	y audits			(ZC0) Cle Academic	an Energy Technologies, Undergraduate Studies	
							ergy and Process Engineering, Master Academic	
13.	M3518	Energ	Energy Management			(ZC0) Clean Energy Technologies, Undergraduate Academic Studies		
							ergy Management, Master Academic Studies	
14.	1079	Moder	n Energy T	echnologies		(ZC0) Clean Energy Technologies, Undergraduate Academic Studies		
15.	1916	Energy Management in Industry				Academic Studies (M50) Energy Management, Master Academic Studies		
16.	1917			•		(M50) Energy Management, Master Academic Studies (M50) Energy Management, Master Academic Studies		
17.	1017	Energy Management in Buildings Energetska politika					ergy Management, Master Academic Studies	
	.570							



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



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Clean Energy Technologies

List of courses	being held by	[,] the teacher in t	the accredited s	studv programmes

List c	List of courses being held by the teacher in the accredited study programmes							
	ID	Course name		Study program	me name, study type			
18.	M3515	Energy Systems		(M30) Energy and Process Engineering, Master Academic Studies				
				(M50) Energy N	lanagement, Master Acader	nic Studies		
19.	M3518	Energy Management		(M30) Energy a Studies	nd Process Engineering, Ma	aster Academic		
13.	100010			(ZC0) Clean En Academic Studie	ergy Technologies, Undergr es	aduate		
20.	M3M01	Implementation of Energy Managem Buildings	ent in Industry and	(ZC0) Clean En Studies	ergy Technologies, Master A	Academic		
21.	M5025	Energy audits		(M50) Energy N	lanagement, Master Acader	nic Studies		
22.	DM216	Energy Systems		(M00) Mechanic	al Engineering, Doctoral Ac	ademic Studies		
23.	DM217	Energy Management in Idustry		(M00) Mechanic	al Engineering, Doctoral Ac	ademic Studies		
24.	DM218	Contemporary Energy Technologies	i	(M00) Mechanic	al Engineering, Doctoral Ac	ademic Studies		
25.	DM219	Energy Politics		(M00) Mechanic	al Engineering, Doctoral Ac	ademic Studies		
26.	DM332	Energy Management in Buildings		(M00) Mechanic	al Engineering, Doctoral Ac	ademic Studies		
27.	DM333	DM333 Renewable Energy Resoruces (M00) Mechanical Engineering, Doctoral Academic Stud						
Representative refferences (minimum 5, not more than 10)								
1.	1. Bojić M. at al: 24th International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems - ECOSS 2011, Novi Sad, 2011, pages 3958, ISBN 978-86-6055-016-5 (member of editorial team)							
2.		t al: 4th Internationa Conference on E '-5 (member of editorial team)	Engineering Technolog	ies ICET 2009, N	ovi Sad, 2009, pages 523, I	SBN 978-86-		
3.		ac, D., Menke, C., Vallikul, P., Petrovi Energy, Vol. 34, No.4, pp. 465–475.	ć, J., Gvozdenac, B.: /	Assessment of po	tential for natural gas/based	cogeneration in		
4.		R. PETROVIĆ, BRANKA GVOZDENA ng and development of heating syster						
5.		AV V. KLJAJIĆ, JOVAN R. PETROVIO hermal Sciences, Year 2012, Vol. 16,				tegration in		
6.		NAC D, PETROVIC J, GVOZDENAC 2011), pages 17-28, UDC: 662.76.035			rocedure Improvement, The	rmal Science,		
7.		NAC D., PETROVIC J.: Survey of Ac Czechoslovakia, 1989, No 2, pp. 32-3		ork in Food Proce	ssing Industry; ENCONET N	NEWSLETTER,		
8.		IĆ Lj., MANOJLOVIĆ D., PETROVIĆ ehnologija mesa", Beorad, 1990., br. 4		PETROVIĆ J.: U	ticaj brzine hlađenja na kval	itet svinjskog		
9.	9. GRKOVIĆ V., PETROVIĆ J.: Pokazatelji energetske efikasnosti kod postrojenja za spregnutu proizvodnju električne i toplotne energije (SPETE), "Termotehnika", Beograd, 1991., br. 1-2, str. 27-39							
10.	10. PETROVIC J., GVOZDENAC D., PERUNOVIC P.: Monitoring of the Operating Thermal Performances in a Water Heating Boiler - Case Study; ENCONET NEWSLETTER, Prague, Czechoslovakia, No. 4, 1991							
Sur	Summary data for teacher's scientific or art and professional activity:							
Quot	Quotation total : 7							
	Total of SCI(SSCI) list papers : 4							
Curre	ent projects	:	Domestic :	3	International :	0		



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Clean Energy Technologies

News				•	O al subability of	¥			
Name and last name: Sakulski M. D									
			Assistant Pro						
			01.10.2007	Technical Sciences - Novi Sad					
	ntific or art f	ield:			Environment	Protection E	Engineering		
	lemic carie		Year	Institution			Field		
	lemic title e		2012	Faculty of Technical Sci	ences - Novi S	ad	Environment Protection Engineering		
	thesis		2002	WITS University - Johar			Environment Protection Engineering		
	elor's thesis	s	1982	Faculty of Civil Engineer	\$		Civil Engineering		
	ster thesis	-	-		<u> </u>		Civil Engineering		
-		eing he	Id by the tea	acher in the accredited stu	udy programme	es			
	ID	Course	e name			Study pro	gramme name, study type		
1.	URZP23	Applie	d Informatio	on Technologies		Undergrad	aster Risk Management and Fire Safety, uate Academic Studies		
2.	URZP36	Risks	in Manipula	ting Hazardous Substanc	es	Undergrad	aster Risk Management and Fire Safety, uate Academic Studies		
3.	URZP41		ers and Vul			Undergrad	aster Risk Management and Fire Safety, uate Academic Studies		
4.	URZP44	Applic manag	ation of geo gement	pinformation technology ir	n risk	Undergrad	aster Risk Management and Fire Safety, uate Academic Studies		
5.	URZP46	Cycle	Elements o	f Catastrophic Events			aster Risk Management and Fire Safety, uate Academic Studies		
6.	URZP56	Fundamentals of Risk and Fire Protection Management			lanagement		(P0) Disaster Risk Management and Fire Safety, Indergraduate Academic Studies		
7.	Z415	Accidental Risks Management				(Z20) Environmental Engineering, Undergraduate Academic Studies			
8.	Z511P	Institutional Framework in Risk Management			nt	(ZP0) Disa Undergrad	aster Risk Management and Fire Safety, uate Academic Studies		
9.	Z307	Modelovanje i simulacija u IZŽS(uneti naziv na engleskom)			/ na	(Z20) Envi Studies	ronmental Engineering, Undergraduate Academic		
10.	Z409A	Upravl	ijanje opasr	im otpadom(uneti naziv n	a engleskom)	(Z20) Envi Studies	ronmental Engineering, Undergraduate Academic		
11.	Z415	Upravl engles	ljanje akcide kom)	entalnim rizicima(uneti na:	ziv na	(Z20) Envi Studies	ronmental Engineering, Undergraduate Academic		
12.	ZC047	Waste	to energy t	ehnologies		(ZC0) Clea Academic	an Energy Technologies, Undergraduate Studies		
13.	ZP515	Qualita	ative and qu	antitative methods of risk	management	(ZP1) Disa Academic	aster Risk Management and Fire Safety, Master Studies		
14.	Z510	naziv i	na englesko	entalnim rizicima i životna pm)	,	(Z20) Envi	ronmental Engineering, Master Academic Studies		
15.	Z511			iri upravljanja akcidentnin iv na engleskom)	า		ronmental Engineering, Master Academic Studies		
16.	ZP501	_		I Disaster Risk Manageme	ent	Academic			
17.	IM2707			nalysis of insurance risk		. , .	neering Management, Master Academic Studies		
18.	IM2714	Disaster risk management cycle				<u>, , ,</u>	neering Management, Master Academic Studies		
19.	IM2715	Modeling and simulation in risk management			nt	Studies	thematics in Engineering, Master Academic		
20.	IMDS72	Advanced risk assessment methods				. , .	neering Management, Master Academic Studies neering Management, Specialised Academic		
21.	MPK009	Enviromental hazards				(MPK) Inženjerstvo tretmana i zaštite voda - TEMPUS(une naziv na engledskom), Master Academic Studies			
22.	MPK012	Solid v	vaste mana	gement		(MPK) Inž	enjerstvo tretmana i zaštite voda - TEMPUS(uneti ngledskom), Master Academic Studies		
23.	MPK014	Monito	oring and sy	stem control		(MPK) lnž	enjerstvo tretmana i zaštite voda - TEMPUS(uneti ngledskom), Master Academic Studies		
							5		

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



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Clean Energy Technologies

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

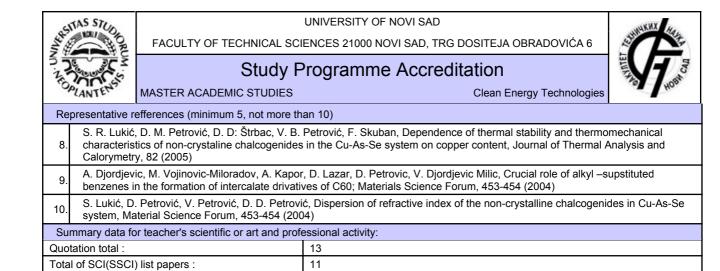
List o	List of courses being held by the teacher in the accredited study programmes							
	ID	Course name		Study program	ne name, study type			
24.	MPK019	Disaster risk management			tvo tretmana i zaštite voda skom), Master Academic St			
25.	ZCM06	Security of strategic energy facilities		(ZC0) Clean En Studies	ergy Technologies, Master	Academic		
26.	IMDR72	Advanced risk assessment methods	i	(120) Industrial E Doctoral Acaden	Engineering / Engineering N nic Studies	/lanagement,		
27.	ZRD233	Selected topics in the field of insurar standpoint of safety and health at wo		(Z01) Safety at	Work, Doctoral Academic S	Studies		
Rep	Representative refferences (minimum 5, not more than 10)							
1.	1. Marjanovic P., Miloradov M., Cukic Z., Sakulski D., Bogdanovic S.: "Integrated cadastre (Inventory System) for pollution sources in the Danube Basin in Yugoslavia", Water Science and Technology, Vol. 32 No 5-6 pp 265-275, IWA Publishing 1995							
2.	Sakulski	D.: "Web-enabled GIS in Disaster Ma	nagement", The Globa	al Magazine for G	eomatics, May 2005, Volun	ne 19, Number 5		
3.	3. Sakulski D.: "Implementation of the multi-software solution for the on-the-fly calculation of the Standardized Precipitation Index (SPI) as a drought indicator for South African environment" ENVIROSOFT 2000, 2000, Bilbao, Spain							
4.		D., "Development and implementation /sis", International Conference on Air			grated system for air qualit	y observation		
5.		D. Stephenson D, Marjanovic P.: "We ica", The 5th International Mathematic			e Calculation of the Drough	t Indicator for		
6.		D.: "South African National Disaster H azard Assessment to Risk Reduction			ational Conference on Disa	sters and Society		
7.		D.: "Geo-Information as an Integral Connection and the connection of the connection for the connection of the conne				S", First		
8.	. Sakulski D.: "Analiza zaustavnog puta u funkciji merodavnog vozila", Put i saobraćaj, 1984							
9.	9. Sakulski D.: "Ojačanje kolovoza upotrebom FW deflektometra", Put i saobraćaj, 1986							
10.	Sakulski	D., Katic Z.: "Klasifikacija oštećenja ko	olovoza", Put i saobra	ćaj, 1986				
Sun	Summary data for teacher's scientific or art and professional activity:							
Quot	ation total :		0					
		CI) list papers :	1					
Curre	Current projects : 0 International : 0							



Study Programme Accreditation

Clean Energy Technologies

					Štrbac D. Dra	-		
						Assistant Professor		
			Faculty of Technical Sciences - Novi Sad 01.04.2002					
	ntific or art f	ield:			Environment	Protection F	Engineering	
	emic cariee		Year	Institution			Field	
	emic title el		2011	Faculty of Technical Sci	ences - Novi S	ad	Environment Protection Engineering	
	thesis		2011	Faculty of Sciences - No			Physics	
	ster thesis		2006	Faculty of Sciences - No			Physics	
	elor's thesis	5	2001	Faculty of Sciences - No			Physics	
			ld by the te	acher in the accredited stu		es		
	ID	Course	e name				ogramme name, study type	
1.	Z101	Introdu	uction and F	Principles of Environmenta	al Protection	Studies	ronmental Engineering, Undergraduate Academic	
2.	Z105	0.	y and Envir			(Z20) Envi Studies	ronmental Engineering, Undergraduate Academic	
3.	Z105A	0.	y and the er			<u> </u>	ety at Work, Undergraduate Academic Studies	
4.	ZR101			Principles of Occupational			ety at Work, Undergraduate Academic Studies	
5.	ZR440	Influer	ice of radiat	tion on health and occupa	tional safety	1	ety at Work, Undergraduate Academic Studies	
6.	Z105	Energi	ja i okružer	ije(uneti naziv na englesk	om)	Studies	ronmental Engineering, Undergraduate Academic	
7.	ZC047	Waste to energy tehnologies				(ZC0) Clean Energy Technologies, Undergraduate Academic Studies		
8.	Z477	Sustainable Agriculture Engineering				(Z20) Environmental Engineering, Master Academic Studies		
9.	Z508	Specific Design Conditions in Environment Protection			Protection	1	ronmental Engineering, Master Academic Studies	
10.	Z510	Accidental Risk Management and the Environmer			onment	 (OM1) Mathematics in Engineering, Master Academic Studies (Z01) Safety at Work, Master Academic Studies 		
				-			ronmental Engineering, Master Academic Studies	
11.	ZR501	Hazar	dous Materi	als and Hazardous Waste	<u> </u>	(Z01) Safety at Work, Master Academic Studies		
				entalnim rizicima i životna		(Z20) Environmental Engineering, Master Academic Studies		
12.	Z510	naziv i	na englesko	om)	,			
13.	SZD017	Solid N	Materials in	the Environment		Studies	ironmental Engineering, Specialised Academic	
14.	ZCM03	Novel	materials ir	energetics		Studies	an Energy Technologies, Master Academic	
15.	ZCM06	Securi	ty of strateo	gic energy facilities		Studies	an Energy Technologies, Master Academic	
16.	ZD017	Solid N	Materials in	the Environment		(Z00) Env Studies	ironmental Engineering, Doctoral Academic	
Rep	presentative	reffere	nces (minin	num 5, not more than 10)				
1.				G. R. Štrbac, D. D. Štrbac e, 23 (2006)	, Chalcogenide	films on gla	ass substrate as attenuattors of X-ray radiatio,	
2.				1. Petrovic, J.M. Gonzalez stalline Solids, 353 (2007)		asan, Single	e oscillator energy and dispersion energy of	
3.	A F Kozmidis-Petrovic G R Strbac D D Strbac Kinetics of non-isothermal crystallization of chalcogenide Journal of Non-						stallization of chalcogenide, Journal of Non-	
4.	D. D. Štrbac, S. Lukić, D. Petrović , J. M. Gonzalez-Leal, A. Srinivasan , G. Štrbac, Influence of substrate absorption on accuracy							
5.	G. Štrbac, S. Lukić-Petrović, D. Štrbac, D. Petrović, Effect of arsenic atom substitute with antimony on crystallization processes							
6.							šević Branka; Štrbac Dragana; Mogućnosti -815-0341-5,Prometej; 2009	
7.				D.Štrbac, Critical rate of co enide glasses, Journal of			conditions of continuous nucleation. The need Materials, 44 (2004)	



11

Domestic :

3

International :

0

Current projects



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

Study Programme Accreditation



MASTER ACADEMIC STUDIES

Clean Energy Technologies

Name and last name: Vićević D. Marija								
		ame.			Assistant Pro	,		
Academic title: Name of the institution where the teacher works full time and								
					01.09.2009			
Scienti	ific or art f	ield:			Gas and Petr	oleum Tech	nics	
Acade	mic cariee	er	Year	Institution			Field	
Acade	mic title el	ection:	2009	Faculty of Technical Sci	ences - Novi S	ad	Gas and Petroleum Technics	
PhD th	nesis		2004	Essex university - Nepo	znato		Technological Engineering	
Bache	lor's thesis	3	1997	Faculty of Technology a	nd Metallurgy -	Beograd	Technological Engineering	
Magist	ter thesis		-				Technological Engineering	
List of	courses b	eing he	ld by the te	acher in the accredited stu	udy programme	es		
	ID	Course	e name			Study pro	ogramme name, study type	
1.	M3451	Natura	al Gas and (Oil Preparation Equipmen	t	Academic		
						Academic		
2.	M3507	Combu	ustion Tech	nology		(ZC0) Cle Academic	an Energy Technologies, Undergraduate Studies	
3.	M3201	Fuels	and lubrica	nts		(M30) Ene Academic	ergy and Process Engineering, Undergraduate Studies	
4.	M3507	Combu	ustion techr	nology		(M30) Ene Academic	ergy and Process Engineering, Undergraduate Studies	
5.	M3555	Bioene	ergy Fuels a	and Alternative Processes	;	(ZC0) Clea Studies	an Energy Technologies, Master Academic	
6.	M3512	Combustion				(M30) Ene Studies	ergy and Process Engineering, Master Academic	
7.	M3514	Engineering application programmes				(M30) Energy and Process Engineering, Master Academic Studies		
8.	M3555	Bioene	ergy Fuels a	and Alternative Processes	;	(M30) Energy and Process Engineering, Master Academic Studies		
9.	DM313	Proces	ss Kinetics			(M00) Me	chanical Engineering, Doctoral Academic Studies	
Repr	esentative	reffere	nces (minin	num 5, not more than 10)				
1.	polyhydro	oxyalkar	noate: Hydr	Vićević M., Prieto M., Tort odynamics, gas–liquid ma 9, No 7, pp. 748-758, ISS	ass transfer and	lopment of a	a Higee bioreactor (HBR) for production of on studies, CHEMICAL ENGINEERING AND	
2.				oodhoo K., Morris J.: Kine 35, No 1-2, pp. 78-82, ISS		Free Radica	al Polymerisation in the Spinning Disc Reactor ,	
3.		ackings	for applicat				as–liquid mass transfer using a rotating bed of Eng. J., 2008, Vol. 135, No 1-2, pp. 141-150,	
4.	Vićević M., Boodhoo K., Scott K.: Catalytic Isomerisation of alpha-pinene oxide to campholenic aldehyde using silica supported							
5.							o campholenic aldehyde using silica supported 7, Vol. 133, pp. 31-41, ISSN 1385-8947	
6.	Boodhoo K, Dunk W, Vićević M, Jachuck R, Sage V, Macguarrie D, Clark J, Classical cationic polymerization of styrene in a							
7.	Vićević M., Jachuck R., Scott K., Clark J., Wilson K.: Rearrangement of alpha-pinene oxide using supported catalyst in a spinning disc reactor, Green Chem., 2004, Vol. 6, No 10, pp. 533-537, ISSN 1463-9262							
8.	Milojević Z., Navalušić S., Zeljković M., Vićević M., Beju L.: Haptic interaction program systems development as a part of virtual environment, Academic Journal of Manufacturing Engineering – AJME, 2011, Vol. 9, No 2/2011, pp. 61-66, ISSN 1583-7904							
9.	Milojević Z. Navalušić S. Zeliković M. Vićević M. Beju L. EXAMPLES OF DEVELOPMENT OF PROGRAM SYSTEMS WITH							
 Vićević M., Novaković K., Boodhoo K., Morris J.: Autori: M. Vicevic, K. Novakovic, K.V.K. Boodhoo and J. Morris Naziv: Kinetics of Styrene Free Radical Polymerisation in the Spinning Disc Reactor Naziv skupa: Process Intensification and Innovation Process (PI)2 Conference II, Christchurch, New Zealand 								
Sumr	mary data	for teac	cher's scien	tific or art and professiona	al activity:			
Quotat	tion total :			14				

WAS STUR		UNIVERSITY OF NO	VI SAD		WAKNX W.
AL DO TO REAL	FACULTY OF TECHNICAL SCI	STATE -			
2000	Study F	Programme A	on	Con	
PLANTER	MASTER ACADEMIC STUDIES		Cle	an Energy Technologies	HO
Total of SCI(SSCI) list papers :	7			
Current projects :		Domestic :	1	International :	0



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Clean Energy Technologies

Name and last name: Void V. Goran Academic tittuton viewer the teacher works full time and strafing date: Faculty of Technical Sciences - Novi Sad Scientific or art field: Environment Protection Engineering Academic titte election: 2012 PhD thesis 2007 Faculty of Technical Sciences - Novi Sad Environment Protection Engineering Backeteric title election: 2017 Faculty of Technical Sciences - Novi Sad Environment Protection Engineering Backeteric title election: 2019 Iso Course - anne Study programme name, study type Iso Course - anne Study programme name, study type Iso Course - anne Study programme name, study type Iso Scientific Residual Professional Studies (201) Safety at Work, Undergraduate Academic Studies Iso Scientific Residual Professional Studies (201) Safety at Work, Undergraduate Academic Studies Iso Scientific Residual Res					-		1		
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	23.	PIP16	Plastic	s and envir	onmental protection			· · · · · · · · · · · · · · · · · · ·	



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



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Clean Energy Technologies

List of courses	being held l	ov the teacher in	n the accredited	study programmes

List o	List of courses being held by the teacher in the accredited study programmes							
	ID	Course name	Study programme name, study type					
24.	SZD042	Models of economic evaluation of en	vironmental projects	(Z00) Environmental Engineering, Specialised Academic Studies				
25.	SZD051	Applications of optimal control theory environment protection	y in living	(Z00) Environmental Engineering, Specialised Academic Studies				
26.	SZDI23	Material Flow Analysis in Urban Syst	tems	(Z00) Environmental Engineering, Specialised Academic Studies				
27.	SZSP21	Design and Planning Processes to M Hazardous Materials	linimize Waste and	(Z00) Environmental Engineering, Specialised Academic Studies				
28.	ZCM06	Security of strategic energy facilities		(ZC0) Clean Energy Technologies, Master Academic Studies				
29.	ZD051	Applications of optimal control theory environment protection	y in living	(Z00) Environmental Engineering, Doctoral Academic Studies				
30.	ZDI23	Material Flow Analysis in Urban Syst	tems	(Z00) Environmental Engineering, Doctoral Academic Studies				
31.	ZDO42	Models of Economic Evaluation of P	rojects for	(OM1) Mathematics in Engineering, Doctoral Academic Studies				
51.	20042	Environment Protection	-	(Z00) Environmental Engineering, Doctoral Academic Studies				
32.	ZSP20	Systemic Regulation of Environment	:	(G00) Civil Engineering, Doctoral Academic Studies				
			Minimize Wests and	(OM1) Mathematics in Engineering, Doctoral Academic Studies				
33.	ZSP21	Design and Planning Processes to M Hazardous Materials	linimize waste and	(Z00) Environmental Engineering, Doctoral Academic Studies				
				(Z01) Safety at Work, Doctoral Academic Studies				
Rep	oresentative	refferences (minimum 5, not more the	an 10)					
1.		Pešenjanski, I.: Combustion chamben nation in central and Eastern Europe, I		nternational Symposium and Exhibition on Environmental				
2.				nods, Which Are The Most Suitable For City of Novi Sad, Sixthation in central and Eastern Europe, Prague 2003.				
3.	Serbia&N			specific national environmental condition in n Environmental Contamination in central and Eastern				
4.		ovic.I.A., Vujic,G., Mudric, J.: Special C pition on Environmental Contamination		Drinking Water management, Sixth International Symposium rn Europe, Prague 2003.				
5.	YAI, Thai	land, 16-18 december. 2003.		ment in Serbia and Montenegro, PSU-UNS conference, HAT				
6.				mašević, B.: Landfill gas modelling and risk assessment in CHISA 2004, 22-26,08.2004.Prague, Czech Republic.				
7.		D., Vujić, G., Bašić, Đ.:Landfill gas extr ronment - ICEE-2005, Novi Sad 19-21		systems; PSU-UNS International Conference On Engineering				
8.	Ubavin, D., Vujić, G., Mihajlov, A., Bašić, D.: Gas to energy opportunity on landfill in city of Novi Sad – Serbia and Montenegro D. Faculty of Technical Sciences, Novi Sad, Serbia and Montenegro, World Congress and Exhibition "ISWA 2005", November 610. 2005. Buenos Aires, Argentina Ref No 194, Proceedings p.82							
9.	Marjanović, D., Vujić, G., Mihajlović, V., Ubavin, D.: Selection of Technology and Public Opinion as Key Factors in Regional 9. Landfill Location Selection, PSU-UNS International Conference on Engineering and Environment - ICEE-2007, Phuket May10-11, 2007. Proceedings CD ICCEE2007149							
10.	10. Vujić, G , Mihajlović, V., Ubavin, D.: Possibilities for Landfill Gas Usage at Novi Sad Landfill, PSU-UNS International Conference on Engineering and Environment - ICEE-2007, Phuket May10-11, 2007. Proceedings CD ICEE2007150							
Summary data for teacher's scientific or art and professional activity:								
Quotation total : 0								
Total	Total of SCI(SSCI) list papers : 0							
Curre	urrent projects : Domestic : 1 International : 1							



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Clean Energy Technologies



Standard 10. Organizational and Material Resources

To perform a study programme, the adequate human, spatial, technical and technological, library and other resources suitable to the study programme features and predicted students` number and at least 2 m2 of space per student are provided.

Classes are held in the amphitheater, classrooms and specialized laboratories. Library owns more than 100 library units that are relevant for the performance of the Pure power technologies study program. All courses of Pure power technologies study program are covered by the appropriate textbooks, computer software and have other tools for optimum teaching process with the provided appropriate information support, material from the lectures and exercises and the use of teaching material that is presented on the web site of the Faculty http://www.ftn.ns.ac.yu/_data/nastava).

The Faculty has a library and a reading room and provides a place for each student in the amphitheater, classrooms and specialized laboratories.



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

Study Programme Accreditation



MASTER ACADEMIC STUDIES

Clean Energy Technologies

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 is 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.

