

## UNIVERSITY OF SPLIT

FACULTY OF ELECTRICAL ENGINEERING, MECHANICAL ENGINEERING AND NAVAL ARCHITECTURE

## DETAILED PROPOSAL OF THE STUDY PROGRAMME

UNDERGRADUATE UNIVERSITY STUDY IN INDUSTRIAL ENGINEERING

SPLIT, July 2017

## CONTENTS

GI	ENERAL	INFORMATION OF HIGHER EDUCATION INSTITUTION	1
GI	ENERAL	INFORMATION OF THE STUDY PROGRAMME	
1.	INTF	RODUCTION	2
	1.1.	Reasons for starting the study programme	2
	1.2.	Relationship with the local community (economy, entrepreneu	rship, civil society, etc.) 3
	1.3.	Compatibility with requirements of professional organizations.	
	1.4. study p	Name possible partners outside the higher education system th programme	•
	1.5.	Financing	6
	1.6. educat	Comparability of the study programme with other accredited p tion institutions in the Republic of Croatia and EU countries	
	1.7. of Croa	Openness of the study programme to student mobility (horizor atia, and international)	
	1.8. propos	Compatibility of the study programme with the University miss ser, as well as with the strategy statement of the network of high	0,
	1.9.	Current experiences in equivalent or similar study programmes	7
2.	DES	CRIPTION OF THE STUDY PROGRAMME	7
	2.1.	General information	7
	2.2.	Learning outcomes of the study programme (name 15-30 learn	ing outcomes)7
	2.3.	Employment possibilities	
	2.4.	Possibilities of continuing studies at a higher level	9
	2.5. the pro	Name lover level studies of the proposer or other institutions the proposed study	• •
	2.6.	Structure of the study	9
	2.7.	Guiding and tutoring through the study system	9
	2.8.	List of courses that the student can take in other study program	1mes 9
	2.9.	List of courses offered in a foreign language as well (name whic	h language)9
	2.10.	Criteria and conditions for transferring the ECTS credits	
	2.11.	Completion of study	
	2.12.	List of mandatory and elective courses	
	2.13.	Course description	
3.	STU	DY PERFORMANCE CONDITIONS	
	3.1.	Places of the study performance	
	3.2.	List of teachers and associate teachersE	rror! Bookmark not defined.
	3.3.	Curriculum vitae of the course teacherE	rror! Bookmark not defined.

3.4.	Optimal number of students	
3.5.	Estimate of costs per student	Error! Bookmark not defined.5
3.6.	Plan of procedures of study programme quality assurance	.Error! Bookmark not defined.

# GENERAL INFORMATION OF HIGHER EDUCATION INSTITUTION

Name of higher education institution	FACULTY OF ELECTRICAL ENGINEERING, MECHANICAL ENGINEERING AND NAVAL ARCHITECTURE
Address	Ulica Ruđera Boškovića 32
Phone	021 305 777
Fax	021 305 776
E.mail	dekanat@fesb.hr
Internet address	htpp://www.fesb@hr

## **GENERAL INFORMATION OF THE STUDY PROGRAMME**

Name of the study programme	INDUSTRIAL ENGINEERING							
Provider of the study programme		FACULTY OF ELECTRICAL ENGINEERING, MECHANICAL ENGINEERING AND NAVAL ARCHITECTURE						
Other participants	FACULTY OF ECONOMICS IN SPLIT							
Type of study programme	Vocational study pro	Vocational study programme  University study program						
Level of study programme	Undergraduate 🖂	Graduate 🗆		Integrated				
	Postgraduate	Postgraduate specialist		Graduate specialist				
Academic/vocational title earned at completion of study	University Bachelor of Industrial Engineering; univ. bacc. ing. industr.							

## 1. INTRODUCTION

#### **1.1.** Reasons for starting the study programme

Putting focus on the market, i.e. producing for a known buyer has become the most important factor for ensuring the existence of the company. In order to survive in the volatile global market, it is necessary for the company to continuously adapt to global trends: high quality products and services, short delivery time, price reductions and increased product and production complexity.

In order to meet the above mentioned requirements it is necessary to keep introducing experts who have new skills and knowledge, and to establish interdisciplinary engineering studies. Abandoning hierarchical, functionally oriented large enterprises resulted in larger demands for professionals with the following qualities: flexibility and creativity, motivation, cooperation and communication. In addition to the professional competences, the engineer of tomorrow should have methodical, computer and social skills.

The spectrum of study programmes at our universities, regarded from the point of view of the industrial sector, is oriented predominantly to specialist study programmes. Croatian faculties traditionally educate good professionals, who successfully solve problems within their professional subject field. However, there is a lack of experts who have the potential to effectively manage interdisciplinary tasks and projects. This type of expert, who would be the "integrator" and "problem solver", would have a vocational title of Bachelor of Industrial Management. The education would not focus only on the engineering and natural sciences, but it would also include courses in economic sciences. Therefore, Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture and Faculty of Economics, University of Split would participate in the implementation of this study programme.

According to information given by the Technische Universität Berlin (www.tuberlin.de), where this study programme is being held for 60 years, the main areas of activities of industrial management engineers are:

- company organization and design,
- systematic analysis and data processing,
- marketing and sales,
- logistics and economics of materials,
- finance and accounting,
- processing and production,
- research and development,
- personnel services,
- management (company management).

On the other hand, the services of the professionals trained in this area are necessary during the Croatian transition to the market economy. According to the information supplied by the German (www.vdi.de) and the American Society of Mechanical Engineers (www.asme.com), engineers of industrial management are the most required and the most paid professionals in the industrial enterprises of these countries. Given the fact that this study programme is the only programme of this type at Croatian universities, graduated bachelors of industrial management will have great prospects for employment in the aforementioned areas, both in industrial and service companies in Croatia.

The study programme in Industrial Engineering was developed with the aim to enable students to acquire basic theoretical knowledge and practical expertise, and to train them for permanent knowledge acquisition, learning about new technologies and developing managerial skills. In addition, during the course of studies each student develops skills of creative thinking, independent and team work and ability to make business decisions at all levels of decision-making. The teaching process conforms with global and particularly with European trends in higher education and with the needs of the economy, and accordingly, appropriate curricula are created. The study programme in Industrial Engineering is closely related to current scientific achievements in the scientific area of engineering, field of mechanical engineering, and economic sciences. All necessary knowledge and skills are based on current scientific achievements within this area.

# 1.2. Relationship with the local community (economy, entrepreneurship, civil society, etc.)

One of the fundamental tasks of the Faculty is to provide education to young professionals who will use their knowledge, skills and abilities to become stakeholders in the industrial and general development of local and wider community. By training leading professionals for more than 55 years, the Faculty successfully accomplished its task, providing necessary human resources to participate in the development of industrial branches based on different engineering disciplines. The Faculty trained professionals who significantly contributed to economic development in the region, thus supporting the region to initiate and successfully develop high-tech based production activities with its own human resources potential.

The purpose of the study programme in Industrial Engineering has been confirmed by the number of students who successfully completed their studies and are employed in various sectors of economy. Following the completion of studies, the acquired knowledge enables the students to find employment in various sectors, e.g. processing, chemical or service industries. This is especially relevant in this moment, with social and economic changes driving the development of new, small and medium technologically advanced enterprises that could serve as the new driving force for economic development.

#### 1.3. Compatibility with requirements of professional organizations

# 1.4. Name possible partners outside the higher education system that expressed interest in the study programme

FESB and Faculty of Economics are signatories to a number of cooperation agreements with the aim of promoting academic and educational activities, concluded with private enterprises and public organisations, e.g. Ericsson Nikola Tesla, national power company HEP, Split-Dalmatia County, Ministry of Defence, Energy institute "Hrvoje Požar", Croatian academic and research network – CARNet, Brodosplit, Siemens, Microsoft Croatia, HSTec, Solvis, Adria Winch, Odašiljači i veze, Manas, etc. Also, it is important to note that the Croatian Armed Forces expressed a special interest in cooperation, since prospective officers are trained at the Faculty.

#### 1.5. Financing

Funded by Ministry of Science and Education.

#### 1.6. Comparability of the study programme with other accredited programmes in higher education institutions in the Republic of Croatia and EU countries

In Croatia, organised as a part of the undergraduate university study in Mechanical Engineering at the Faculty of Mechanical Engineering and Naval Architecture, University of Zagreb, there is a field of study titled Industrial Engineering and Management, which students may enrol after having completed the second semester. Considering that the study programme in Industrial Engineering, organized at FESB, is the only programme of this type in Croatia, the comparison is possible only with the similar study programmes in the world. However, it should be noted that it is not possible to simply copy similar study programmes, but to take into consideration during the process of curriculum development our specific features regarding the economic situation, anticipated development and the scientific advancements. On the other hand, the curriculum has to ensure the same level of quality offered by reputable foreign universities.

Engineering The German name for the study of Industrial is Wirtschaftsingenieurwesen Studium. The Universities from the following countries were selected as reference institutions: a group of universities from Germany (Universität Karlsruhe, Universität Stuttgart, Technische Universität Berlin, University of Aachen), Austria (Technische Universität Wien), USA (University of California at Berkeley, Stafford Business School), England (University of London, Imperial College of Science, Technology and Medicine) and Italy (Faculta di Economia e Comerco Venezia) and Slovenia (Faculty of Mechanical Engineering, Maribor).

# 1.7. Openness of the study programme to student mobility (horizontal, vertical in the Republic of Croatia, and international)

Undergraduate university study in Industrial Engineering supports the concept of student vertical and horizontal mobility. As far as vertical mobility is concerned, undergraduate university study in Industrial Engineering can primarily be followed by the graduate study programme in Industrial Engineering. For students who enrol this graduate programme after the undergraduate programme, these two cycles represent integral five-year educational programme which provides a comprehensive quality education in the professional field of Industrial Engineering. Furthermore, vertical mobility is possible towards other graduate study programmes after taking appropriate differential courses. As far as horizontal mobility is concerned, undergraduate university study in Industrial Engineering is open for mobility of students of related studies at all Croatian universities. The comparability of the study programme with similar study programmes enables the students to fulfil a part of their course requirements at other higher education institutions in Croatia or abroad.

# 1.8. Compatibility of the study programme with the University mission and the strategy of the proposer, as well as with the strategy statement of the network of higher education institutions

Undergraduate university study in Industrial Engineering conforms to the Strategy of the University of Split 2015-2020 (Mission, vision and strategic guidelines). In addition to mission and vision of the University of Split, in the process of defining strategic goals, the following strategic documents were taken into account as guidelines:

- EUROPA 2020 strategy for smart, sustainable and inclusive growth,
- Strategic documents of the European Research Area (ERA),
- Strategic documents of the European Higher Education Area (EHEA),
- Strategy of Education, Science and Technology of the Republic of Croatia.

Undergraduate university study in Industrial Engineering conforms to the development guidelines of the Faculty, as well as with mission, vision and strategic goals defined in the FESB Development Strategy for the period 2012 – 2016, and is the only programme of this type at the University of Split and the wider region.

The proposed study programme conforms to the strategic document Network of Higher Education Institutions and Study Programmes in the Republic of Croatia, which encourages launching new study programmes in STEM area, which includes the proposed study programme.

#### 1.9. Current experiences in equivalent or similar study programmes

Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture and Faculty of Economics, University of Split participate in the implementation of the undergraduate study in Industrial Engineering.

FESB has extensive experience in delivering courses at similar programmes. As a response to growing demand for highly educated professionals in the fields of mechanical engineering and naval architecture, in 1960 the Centre for part-time studies was established in Split, as one of the constituent colleges of the Faculty of Mechanical Engineering and Naval Architecture in Zagreb. The Centre for part-time study in mechanical engineering was closed in 1965 and replaced by the Mechanical Technology Department, which was founded at the Faculty of Electrical Engineering in Split, providing the two first years of study in Mechanical Engineering. The study programme provided an opportunity for continuing the study programme in Zagreb after the fourth semester. Integration of the studies in electrical engineering, mechanical engineering and naval architecture in 1971 resulted in founding of the Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture -FESB, constituent of the University of Split since 1974. The four-year undergraduate study in Mechanical Engineering, with its own curriculum, was finally completed in 1976. The Faculty has implemented professional studies (level VI in former qualifications system) since 1979 until today, with hiatus during the period 1998-2001. In collaboration with the Faculty of Mechanical Engineering and Naval Architecture in Zagreb the Faculty implemented the postgraduate study programme in mechanical engineering during the 1970s, with short interruptions. Permanent postgraduate study programme in Mechanical Engineering at FESB was established in 1998 and has been continually implemented since then. The undergraduate study programme in Industrial Engineering at FESB was first introduced in 2002. So far, 45 students have completed undergraduate study programme in Industrial Engineering and were awarded degrees of graduated engineers of Industrial Management.

In the end of 2004 activities regarding the Bologna process of harmonization of higher education systems in Europe were intensified. In 2005, within the Bologna Process, the Faculty introduced new study programmes at undergraduate and graduate levels, in accordance with the recommendations of the European accreditation agencies. Undergraduate study programme in Industrial Engineering and graduate study programme in Industrial Engineering were established with the following fields of study at the second year: Production Management and Product Lifecycle Management.

To the present day, 197 students were awarded degrees of Bachelor of Industrial Management and 105 students were awarded degrees of Master of Industrial Engineering.

Quality of education at FESB is confirmed by success and excellence of FESB graduates worldwide, including the highly developed countries. However, the most important is the fact that professionals trained at FESB represent a foundation of highly educated science and engineering labour force in the region. Faculty of Economics is the successor of organized study of economic sciences and of scientific research activities that are present in this region for the past 40 years. The original motives are associated with desires to provide education to economic experts in South Croatia thus enabling modern development. Due to the achieved level of development, the Faculty found its place among respectable educational and scientific institutions, not only in Croatian, but also in international circles.

Early developments of economic sciences in Split started back in 1960, when School of Economics was established. Scientific-research activities were intensified in 1965 with the founding of the Institute for the maritime, tourism and coastal economies. The need for increase in the number of educated graduated economists in 1971 encouraged the Faculty of Economics in Zagreb to establish its distant location study programme in Split. Due to rapid completion of personnel, organizational, physical and other conditions, after two years, the study programme grew into an independent university organization. In 1975 the above mentioned Institute integrated with the Faculty and in 1978 also the School of Economics, after breaking productive educational and scientific connections with Faculty of Foreign Trade in Zagreb. Since then, all three institutions act as a single one, educating professionals and offering two-year and four-year study programmes, developing scientific research ideas that have become particularly distinguished for research and development of ideas for advancement of the local economy in coastal areas.

## 2. DESCRIPTION OF THE STUDY PROGRAMME

#### 2.1. General information

Scientific/artistic area of the study programme	Engineering Sciences
Duration of the study programme	3 years
The minimum number of ECTS required for completion of study	180
Enrolment requirements and admission procedure	Completed 4-year high school programme and state graduation exam. Rankings are formed based on the average grade point average achieved in high school and the state exam results in the fields of mathematics and physics. Students of related undergraduate studies may also be admitted, with at least 30 ECTS credit recognition.

# 2.2. Learning outcomes of the study programme (name 15-30 learning outcomes)

The learning outcomes of the study programme are directly related to the learning outcomes of an individual course and represent learning outcomes to be achieved by each student who completes the undergraduate university study programme in *Industrial Engineering*. The learning outcomes are aligned with the Croatian Qualification Framework Act.

#### KNOWLEDGE

- 1. Apply appropriate mathematical and scientific principles in solving complex problems in the fields of mechanical engineering and economics.
- 2. Apply fundamental physical and technical principles in the field of mechanical engineering.
- 3. Explain basic economic concepts, and concepts and functions of management.
- 4. Identify and apply microeconomic and macroeconomic models and basic accounting and financial principles.
- 5. Choose the appropriate analytical methods, modelling procedures and appropriate equipment in the analysis of systems, parts of the system or processes that will meet the relevant requirements in the context of technical, economic, social, ethical and legal limitations.
- 6. Integrate theoretical knowledge and practical skills in solving problems in the field of engineering.
- 7. Identify, formulate and solve engineering problems using established methods and procedures.
- 8. Recognise the possibilities and limitations of applied techniques and methods.

SKILLS

- 9. Apply techniques, skills and advanced engineering tools necessary in engineering practice.
- 10. Design experiments by applying scientific principles in the field of mechanical engineering and economics.
- 11. Conduct experiments and measurements; analyse and interpret collected data and measurement results.
- 12. Apply engineering knowledge and skills in order to effectively solve engineering problems, both independently and as part of a team.
- 13. Prepare project documentation and technical reports using modern technologies.
- 14. Create, develop and improve integrated systems that include people, materials, information, equipment and energy by using appropriate analytical, computer and experimental methods.
- 15. Use literature, databases and other sources of information.
- 16. Give a public oral presentation, prepare a written report and present the results of the project in Croatian and English language.

INDEPENDENCE

- 17. Actively participate in and manage projects in the field of mechanical engineering from the preparation stage to completion, using the appropriate knowledge in economics.
- 18. Continuously acquire knowledge on new techniques and technologies.

RESPONSIBILITY

- 19. Demonstrate awareness of the influences of engineering processes on the individual, society and environment.
- 20. Demonstrate professional and ethical responsibility in unforeseen conditions.
- 21. Demonstrate awareness on health, safety and legal issues related to the individuals and social groups.
- 22. Recognise the need for participating in life-long learning and acquiring the knowledge about new technologies.

#### 2.3. Employment possibilities

Split is the economic and university hub of the major part of the Dalmatian region, as well as one part of the neighbouring region of Bosnia and Herzegovina. FESB is the only higher education institution in Croatia that delivers university study in Industrial Engineering as an independent study programme. Purpose of the study programme in Industrial Engineering has been confirmed by the number of students who successfully completed their studies and are employed in various sectors of economy. Following the completions of studies, the acquired knowledge enables the students to find employment in various sectors, e.g. processing, chemical or service industries. This is especially relevant in this moment, with social and economic changes driving the development of new, small and medium technologically advanced enterprises that could serve as the new driving force for economic development. Following the completion of studies, the students acquire an appropriate level of knowledge and skills that enable them to perform professional

tasks and provide them with skills necessary for participating in working processes in the field of engineering.

The special importance of this study programme, with regard to the labour market, is that it represents the first stage of the comprehensive two-cycle educational process which results in producing a fully educated expert capable of solving the most complex engineering tasks and participating in scientific research. The demand for experts with these learning outcomes considerably exceeds the available number of educated experts in the region, Croatia and the world.

#### 2.4. Possibilities of continuing studies at a higher level

After completing undergraduate university study, students can enrol graduate study in Industrial Engineering or some other corresponding study programme in accordance with enrolment requirements of each graduate study programme.

# 2.5. Name lover level studies of the proposer or other institutions that qualify for admission to the proposed study

#### 2.6. Structure of the study

The study programme is structured per semesters, lasting 6 semesters, two in each academic year. Each semester corresponds to 30 ECTS credits. During the first two years of the studies, the students acquire fundamental knowledge in mathematics and natural sciences and fundamental knowledge in mechanical engineering. In the final part of the studies, through expert courses, the completeness of the studies is achieved by preparing the students of the undergraduate university study programme in Industrial Engineering both for independent professional work and continuation of studies at the graduate level. In the third year of studies, in addition to mandatory courses, the students select two elective courses. The final component of the study programme is preparing and defending the final thesis. The conditions for enrolling a course are listed in the course table. Lectures are delivered in groups up to 100 students, auditory exercises and seminars in groups of 30 students, laboratory exercises in groups of 10 students and design exercises in groups of 6 students.

#### 2.7. Guiding and tutoring through the study system

During the course of study programme activities, students have access to all the Faculty services. For the purpose of timely and effective communication, notifications and information are provided to students through the e-learning portal.

#### 2.8. List of courses that the student can take in other study programmes

Students can enrol courses from other study programmes only as elective courses which are not included in the regular workload of 30 ECTS credits per semester.

# 2.9. List of courses offered in a foreign language as well (name which language)

Course tables for individual courses list the option of teaching a course in a foreign language.

#### 2.10. Criteria and conditions for transferring the ECTS credits

Transfer or recognition of ECTS credits between related undergraduate university study programmes is allowed. The criteria and conditions for transferring the ECTS credits are regulated by the *Regulations on Studies and Study System at the University of Split.* 

#### 2.11. Completion of study

Final requirement for completion of study	Final thesis ⊠ Diploma thesis □	Final exam □ Diploma exam □						
Requirements for final/diploma thesis or final/diploma/exam	The requirement for applying for the final thesis is acquired 120 ECTS credits.							
Procedure of evaluation of final/diploma exam and evaluation and defence of final/diploma thesis	the defence of the final paper	e final thesis is evaluated by the mentor (supervisor) and defence of the final paper is conducted orally, in the sence of the mentor and students who also defend their per with the same mentor.						

## 2.12. List of mandatory and elective courses

List of courses											
Year of study: 1.											
Semester: I.											
STATUS	CODE	COURSE	HO	URS	IN SE	MEST	ER	ECTS			
31A103	CODE	COURSE	L	S	AE	LE	DE	ECIS			
	FEME03	Mathematics 1	45	0	45	0	0	7			
	FESE10	Mechanics 1	45	0	30	0	0	7			
	FEMC01	Physics	45	0	0	0	0	5			
Mandatany	FESE11	Engineering Graphics 1	15	0	0	0	30	4			
Mandatory	FETE04	Materials 1	30	0	0	30	0	4			
	FEOE02	English Language 1	0	30	0	0	0	3			
	Total		180	30	75	30	30	30			
	L = Lectures	, S = Seminar, AE = Auditory Exercises, LE = Labora	atory Ex	ercises	, DE =	Design	Exerci	ses			
	There are	no elective courses.									

	List of courses											
Year of study: 1.												
Semester: II.												
STATUS	CODE	COURSE	HO	URS	IN SE	MEST	ER	ECTS				
51A105	CODE COURSE	L	S	AE	LE	DE	LOIS					
	FEME04	Mathematics 2	45	0	45	0	0	7				
	FESE08	Mechanics 2	45	0	45	0	0	7				
	FEEE02	Principles of Economics	30	0	30	0	0	5				
Mandatany	FESE12	Engineering Graphics 2	30	0	0	0	30	4				
Mandatory	FETE05	Materials 2	30	0	0	30	0	4				
	FEOE03	English Language 2	0	30	0	0	0	3				
	Total		180	30	120	30	30	30				
	L = Lectures, S = Seminar, AE = Auditory Exercises, LE = Laboratory Exercises, DE = Design Exercises											
	There are no elective courses.											

		List of courses										
Year of study: 2.												
Semester: III.												
STATUS	CODE	COURSE	HO	URS	IN SE	MEST	ER	ECTS				
31A103	CODE	COURSE	L	S	AE	LE	DE	ECIS				
	FEEE03	Statistics	30	0	30	0	0	7				
	FEEE05	Fundamentals of microeconomics	30	0	30	0	0	6				
	FEEE04	Macroeconomics	30	0	30	0	0	6				
Mandatory	FETE01	Technology 1	45	0	0	30	0	6				
	FEEE11	Computer Aided Design 1	30	0	0	0	30	5				
	Total		165	0	90	30	30	30				
	L = Lectures	s, S = Seminar, AE = Auditory Exercises, LE = Labora	atory Ex	ercises	, DE =	Design	Exerci	ses				
	There are	no elective courses.										

		List of courses										
Year of study	y: 2.											
Semester:	Semester: IV.											
STATUS	CODE	COURSE	НО	URS	IN SE	MEST	ER	ECTS				
31A103	CODE	COURSE	L	S	AE	LE	DE	ECIS				
	FESE02	Mechanics of Materials	45	0	30	0	0	7				
	FENE01	Electrical Engineering	30	0	15	15	0	6				
	FEEE06	Accounting	30	0	30	0	0	6				
Mandatory	FETE02	Technology 2	45	0	0	30	0	6				
	FESE17	Computer Aided Analysis	30	0	0	30	0	5				
	Total	•	180	0	75	75	0	30				
	L = Lectures	L = Lectures, S = Seminar, AE = Auditory Exercises, LE = Laboratory Exercises, DE = Design Exercises										
	There are	no elective courses.										

	List of courses											
Year of study: 3.												
Semester: V.												
STATUS	CODE	COURSE	HO	URS	IN SE	MEST	ER	ECTS				
51A105	CODL	COURSE	L	S	AE	LE	DE	LOIS				
	FESE03	Machine Elements	45	0	0	0	30	6				
	FESE05	Thermodynamics	45	0	30	0	0	6				
	FESE04	Design of Industrial Products	30	0	0	0	30	5				
Mandatary	FEEE12	Management	30	0	30	0	0	5				
Mandatory	FETE03	Work and Time Study	30	0	15	15	0	4				
	FESE06	Introduction to Information Systems	30	0	0	15	0	4				
	Total		210	0	75	30	60	30				
	L = Lectures	L = Lectures, S = Seminar, AE = Auditory Exercises, LE = Laboratory Exercises, DE = Design Exercises										
	There are	no elective courses.										

List of courses												
Year of study: 3.												
Semester: VI.												
STATUS	CODE	COURSE	HO	URS	IN SE	MEST	ER	ECTS				
31A103	CODE	COOKSE	L	S	AE	LE	DE	ECIS				
	FESE0	Fluid Mechanics	45	0	30	15	0	6				
	FEEE0	Finance	30	0	30	0	0	4				
Mandatory		Elective Course 1										
Ivianualory		Elective Course 2										
	FEXX0	Final Thesis						12				
	Total		75	0	60	15	0	22				
	FETC1	Design for Manufacturing	30	0	0	0	30	4				
	FESE1	Eksperimentalne metode u tehnici	30	0	0	30	0	4				
	FETE12	Industrial Property	30	0	30	0	0	4				
	FETE10	Ispitivanje materijala	30	0	0	30	0	4				
	FESC2	Metal Structures Design	30	0	0	0	30	4				
	FETE06	Moderne tehnologije obrade materijala	30	0	0	15	0	4				
Elective	FEEE0	Business Systems Organisation	30	0	30	0	0	4				
	FEOC0	Introduction to Public Speaking	0	30	0	0	0	4				
	FETE09	Tribology	30	0	30	0	0	4				
	FEOC0	Communication Skills in English	0	30	0	0	0	4				
	FESR1	Noise and Vibration Control	30	0	15	15	0	5				
	FEXX0	Professional Training						5				
	Two elec	ctive courses are chosen.										

## 2.13. Course description

NAME OF THE COURSE	ACCOUNTING								
Code	FEEE06	Year of study	2.						
Course teacher	Branka Ramljak, Ph. D., Full Professor	Credits (ECTS)	6						
Associate teachers	Ivana Perica, Teaching assistant	Type of instruction (number of hours)	S 0	AE 30	LE 0	DE 0			
Status of the course	Obligatory	application of e-learning							
	COURSI	E DESCRIPTION	-						
Course objectives	accounting - setting up and solving	plication of basic principles simple accounting cases nd deepening of knowledg					3		
Course enrolment requirements and entry competences required for the course	None								
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul> <li>apply Law of Accountin transactions</li> <li>calculate assets, owne</li> <li>analyse financial state</li> </ul>	I knowledge of accounting ng for the evidence and re- er's equity, liabilities, reven ments and accounting info nction of better business o	cording ues and rmation	l expe					
	Course content				L or S hours		\E ours		
	The concept and content c accounting and bookkeepi	ng			2		2		
	The place and role of acco conditions				2		2		
	Accounting principles; Use				2		2		
	Basic accounting categories: assets, owner's equity, liabilities, expenses, revenues and financial results						2		
Course content broken down in	Definition and division of assets, capital (owner's equiti) and liabilities; The role of assets, capital and liabilities in the business						2		
detail by weekly class schedule (syllabus)	Definition and division of expenses, revenues, financial results; The role of expenses, revenues, financial results in the business						2		
	Financial stataments: defir	nition and division			2		2		
	International financial repo accounting standards (IFR		al		2		2		
	Preparing of the balance s large company		e and		2		2		
	Preparing of the income st large company	atement for small, medium	n size ar	nd	2		2		
	Preparing of the cash-flow and large company	statement for small, media	um size		2		2		

	Business transaction	ns;Reco	rding oft he bus	iness tra	nsactions	2	2
	Account: definition a				-	2	2
	Financial indicators	, activity	/			2	2
	Value Added Tax; R x lectures	eal esta	ite transfer tax;	Profit tax		2	2
Format of instruction	<ul> <li>seminars and wo</li> <li>x exercises</li> <li>on line in entirety</li> <li>partial e-learning</li> <li>field work</li> </ul>		□ mu □ lat	depender ultimedia poratory ork with m (othe		ts	
Student responsibilities	The presence on lec	tures in	the amount of	at least 7	0 % of the tir	nes sch	neduled
Screening student work (name the	Class attendance	0.5	Research		Practical trai	ning	
proportion of ECTS credits for each	Experimental work		Report	· .		r)	
activity so that the total number of	Essay		Seminar essay		(Othe	r)	
ECTS credits is equal to the ECTS	Tests	2.5	Oral exam		(Othe	r)	
value of the course)	Written exam During the semeste	2.5	Project		(Othe	,	
Grading and evaluating student work in class and at the final exam	knowledge. Final ex of the case. The exam consists of The condition for theoretical part and The condition for th (theory and practice) The final grade is de percentage Ratin 50% to 61% sufficie 62% to 74% good (3 75% to 87% very go 88% 100% excelled The final exam is tak time to meet.	of writter obtainin 50% pra ne relea etermine g ent (2) 3) pod (4) ent (5)	n and oral part. g signatures i actical part) ase of the writ d as follows:	s one p ten exan	reliminary e n: laid both in terms that	xam (5 prelimir the stu	0% of the hary exams
Required literature		Title			Number o copies in the library	Ava	ilability via ner media
(available in the library and via other media)	K. Žager, B. Tušek, <i>računovodstva – Ra</i> RIF, Zagreb, 2008. (	čunovo			3		
Optional literature (at the time of submission of study programme proposal)	<ul> <li>K. Žager, N. Deo Zagreb, 2015.</li> <li>Grupa autora: R</li> </ul>						
Quality assurance methods that ensure the acquisition of exit competences	<ul> <li>Evaluation of res</li> <li>Feedback from s</li> <li>Self-evaluation of the self-evaluation of</li></ul>	students of teach	s via surveys ers		ve learning o	utcome	S

Other (as the
`
`
proposer wishes to
odd)
add)

NAME OF THE COURSE	BUSINESS SYSTEMS OF	RGANISATION					
Code	FEEE08	Year of study	3				
Course teacher	lvica Veža, PhD, Full Professor, Ivan Matić, PhD, Assistant Professor	Credits (ECTS)	4				
	Nikola Gjeldum, Ph. D.,	Type of instruction	L	S	AE	LE	DE
Associate teachers	Assistant Professor	(number of hours)	30	0	30	0	0
Status of the course	elective	Percentage of application of e-learning			0%		
	COURSE	E DESCRIPTION					
Course objectives	<ul> <li>to emphasize the f</li> </ul>	course objective is: nts with organisation as a roundations of organisatior anize and design organisa	n and to	teach	n stude	ents ho	
Course enrolment requirements and entry competences required for the course	None						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul> <li>List basic modern theo</li> <li>Define basic elements</li> <li>Define factors which in</li> <li>Analyse Lean manage</li> </ul>	of organising business fluence organisational stru ment tools state by value stream ma	ucture c	lesign		-	
	Course content				L or S	ŀ	١E
					hours	hc	ours
	Introduction: Terminologica terms science, science of v Definition of term organisat organisations in society.	work and organisation scie	nce.		2		
	Objectives, principles, methorganising/organisation.	hods and types of			2		
	Short overview of organisation theories: Classic theory. Neoclassic theory. Modern theory.						
Course content broken down in detail by weekly class schedule (syllabus)	Enterprise and entrepreneurship: Explanation and definition of the term enterprise. Foundation and development of enterprise. Enterprise types. Basic elements of organising business: organisational structure, organisation of internal relations and organisation's management system.						
	Enterprise's organisational structure: Terminological determination of organisational structure. Organisational structure elements. Overview of various organisational structure typologies.						
	Process of designing organ structure design's influenci		isationa	al	2		
	Organisational dynamic an External and internal enviro Organisational dynamic.	d organisational behaviou			2		

	<b>.</b>					T	,
	Change managemen Organisational beha ethic.					2	
	Internal relations' org	ganisati	on: Term	inologic	al definition of	2	
	The role and decom	•				2	
	Designing responsib Organisation's mana					2	
	definition. Basic mar	nageme	nt functio	ns and	levels.		
	Management and lea		p. Design	ing orga	anisation's	2	
	management system Case studies: Analys		siness pra	actice ca	ases.		
	Project managemen	t (the ba				2	
	organisational struct						LE or DE
	List of laboratory or						hours
	Introduction: Various						2
	Methods for reorgani Basic lean tools	sation c	Dusines	s and p	broduction systems	i	2
	Value stream mappir						8
	Lean tools applicable			stems			4 3
	Value stream mappir Kaizen levels	ig, iutur	e state				2
	Business systems sir						3
	Business systems pla ⊠ lectures	anning,	control a	nd man	agement software		-
	$\Box$ seminars and wo	rkshops			ependent assignme	ents	
Format of instruction	⊠ exercises			□ mul	timedia		
Format of instruction	□ on line in entirety				k with mentor		
	<ul> <li>□ partial e-learning</li> <li>□ field work</li> </ul>				(other)		
Student	Minimum of 70% att	endanco	e on lectu	ires and	l auditory exercise	s' planned	hours. All
responsibilities	planned auditory exe				-	•	
Screening student work (name the	Class attendance	1,0	Researc	h	Practical t	raining	
proportion of ECTS	Experimental work		Report		Individual	work	2,0
credits for each activity so that the	Essay		Semina essay	r	Laboratory	y exercise:	3
total number of ECTS credits is equal to the ECTS	Tests	1,0	Oral exa	am	Laboratory preparatio		s'
value of the course)	Written exam		Project		(Ot	her)	
Grading and evaluating student work in class and at the final exam	During the semester following first 7 weeks weeks of classes and elements which the Requirement for pos- points on each test. M1, M2 – points ach Final course's grade Percentage => Gra 50% to 61% => suf 62% to 74% => goo 75% to 87% => ver 88% to 100% => exc	eks of comp ey did sitive/pa ieved o is dete ade ficient ( od (3) y good	elasses, a pleted. Or not pass assing gra Grade (% n tests (ir rmined as 2) (4)	nd sec n the fir when ade is t %) = 0,5 n %)	ond test will be contained test will be contained test 2 mentioned test he achievement of (M1 + M2)	onducted are takin sts were	after all 15 ig course's conducted.

	Students, who do not pass the course through tests, is constituted of 5 questions and assignments.	are taking wr	itten exam which
	Title	Number of copies in the library	Availability via other media
Required literature (available in the library and via other	Dulčić, Ž.; Pavić, I.; Rovan, M.; Veža, I.: Proizvodni menedžment. Fakultet elektrotehnike, strojarstva i brodogradnje – Ekonomski fakultet, Split, 1996.	5	
media)	Sikavica P.; Novak, M.: Poslovna organizacija, informator, Zagreb, 2011.	5	
Optional literature (at the time of submission of study programme proposal)	Schroeder, R.G.: Upravljanje proizvodnjom, Mate, Za	greb, 2000	
Quality assurance methods that ensure the acquisition of exit competences	<ul> <li>Keeping records of class' attendance</li> <li>Annual analysis of exam taking successfulness</li> <li>Students' feedback via questionnaires (evaluation</li> <li>Teacher's self-evaluation</li> <li>Feedback from students which have completed ov on course's content relevancy</li> </ul>		e (ad are working)
Other (as the proposer wishes to add)			

NAME OF THE COURSE	COMMUNICATION SKILLS IN EN	IGLISH					
Code	FEOC05	Year of study	3.				
Course teacher	Mirjana M. Kovač, Ph.D., Assistant Professor Nina Sirković, Ph.D., Assistant Professor		4				
		Type of	L	S	AE	LE	DE
Associate teachers	-	instruction (number of hours)	30	0	0	0	
Status of the course	Optional	Percentage of application of e-learning	0				
	COURSE DESCR	RIPTION					
Course objectives	Training students for: - Development of students' oral a - Leading of formal and informal - Improving general English lang	communication as					ation
Course enrolment requirements and entry competences required for the course	None						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul> <li>Prepare and hold a professiona</li> <li>Implement rules for writing prof general</li> <li>Use phrasal expressions to imp</li> <li>Lead a formal professional conv</li> <li>Actively participate in an interna</li> <li>Course content</li> </ul>	essional papers a prove English lang versation	s well a juage kr	nowle	dge	etings	g in
	Course content				ہ hours		≀⊏ ours
	Course introduction: presentation s interpersonal communication	kills, written and			2		
	Presentation planning: mind maps a		orinciple		2		
	Presentation structure, verbal, voca presentation skills				2		
Course content	Technical presentation: organisation	n and performanc	e		2		
broken down in	Presentations: peer assessment				6		
detail by weekly class schedule (syllabus)	First midterm exam Written communication: writing sem scientific paper	ninar, final, profes	sional a	nd	2		
(Syllabus)	Technical paper structure				2		
	Scientific style used in technical wri	ting			2		
	Business communication skills: soc		rnoreon				
	communication		10013011		2		
	Formal and informal communication	ו			2		
	Team communication				2		
	Second midterm exam				-		
Format of instruction	<ul> <li>□ lectures</li> <li>⊠ seminars and workshops</li> <li>□ exercises</li> <li>□ on line in entirety</li> </ul>	<ul> <li>independent a</li> <li>multimedia</li> <li>laboratory</li> <li>work with mer</li> </ul>	-	ients			

	<ul><li>□ partial e-learning</li><li>□ field work</li></ul>				(other)	)		
Student responsibilities	The presence on lect Performed all require			ount of at	: least 7	0 % of the time	es schedul	ed.
Screening student work (name the	Class attendance		Resea	rch		Practical traini	ng	
proportion of ECTS credits for each	Experimental work		Report			Individual worl	κ	1
activity so that the total number of	Essay		Semina essay	ar		Presentation		1
ECTS credits is	Tests	2	Oral ex	am		(Other)		
equal to the ECTS value of the course)	Written exam		Project	:		(Other)		
Grading and evaluating student work in class and at the final exam	There are two midters of lecturing and the pass both midterm effrom both midterm effrom both midterm effrom both midterm efforted (in percentag 88-100% - excellent 75-87% - very good 62-74% - good (3) 50-61% - sufficient ( Midterm and final ex	e second exams h exams. e) is forr (5) I (4) 2).	d one is ave to t	after the	e next ( inal exa	6 weeks. Stud m containing k ore:	ents who earning ma	do not aterials
Required literature		Title			Number of copies in the library	Availabi other n	-	
(available in the library and via other media)	Kovač M. M., Sirkov Writing and Interpers Split. FESB.	•				10		
	Barker, A. (2010). Improve your communication skills. London and Philadelphia. Kogan page.							
Optional literature (at the time of submission of study programme proposal)	Master, Peter (2004) Department of State Mc Carthy, Michael; Cambridge: Cambrid	o, Office O'Dell,	of Engli Felicity.	sh Langu (2008). <i>A</i>	lage Pro	ograms.	-	US
Quality assurance methods that ensure the acquisition of exit competences	Evaluation of res Feedback from Self-evaluation of	student	s via su		the abo	ve learning out	comes	
Other (as the proposer wishes to								

NAME OF THE COURSE	COMPUTER- AIDED ANA	ALYSIS					
Code	FESE17	Year of study	2				
Course teacher	Damir Vučina, Ph. D., Full Professor	Credits (ECTS)	5				
Associate teachers	Igor Pehnec, Ph. D., Assistant Professor	Type of instruction	L	S	AE	LE	DE
	Ivo Marinić- Kragić, Teaching assistant	(number of hours)	30	0	0	30	0
Status of the course	Obligatory	Percentage of application of e-learning	0				
	COURSE	E DESCRIPTION					
Course objectives	Acquiring theoretical know Developing competences i Developing practical skills	n modeling engineering pro	oblems	s for n	umeric	al met	
Course enrolment requirements and entry competences required for the course	Competences acquired in o	courses Mathematics I, Me	chanic	s I			
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul> <li>Describe the procession</li> <li>MATLAB language</li> <li>Categorize the pro</li> <li>Develop flowcharts</li> <li>Numerically model</li> <li>Create and apply be systems, nonlinear approximation</li> </ul>	etup of computers, edure of developing progra e: characterize the properti- perties of numerical proce- s for simpler problems simpler engineering probl- pasic methods of numerica equations, integration, dif	es of s dures ems I analy	sis for	: solvii	ng line	
	Course content				L		٩E
					hours		ours
	Introduction to computers,	binary system, logic function	ons.		2		
	Introduction to computer-ai				Z		
	Basics of numerical proce algorithms.	<b>,</b> , , ,		2			
	MATLAB - language progra	• •			2		
	MATLAB -language progra	• •			2		
	Developing flowcharts and	-			2		
Course content	Developing flowcharts and	pseudo-code, part 2			2		
broken down in detail by weekly	Elementary numerical proc applications (mechanics, fl		amics)		2		
class schedule (syllabus)	Engineering application of numerical methods: Solving linear systems						
	Engineering application of numerical methods: Solving nonlinear equations and systems.						
	Engineering application of polinomials and piecewise		olation	by	2		
	First midterm exam	<u> </u>					
	Engineering application of using polinomials.			on	2		
	Engineering application of	numerical methods: Nume	rical		2		

	basics.							
	Examples of setting	up phys	ical and	mathem	atical mod	dels for		
	different engineering						2	
	algorithms and comp	outer pro	ograms ir	MATLA	\В.			
	Second midterm exa	am						
	List of laboratory exe							LE hours
	MATLAB, workspace operators, expression		ler, linker	. Basic t	erms of N	/IATLAB, 1	ypes,	2
	Declaring variables, f		d output,	data inp	out.			2
	Conditional expression	ons. Bra	nching, it	f, if-else,	, if-else if-	else		2
	Loops, while(), do-wh	nile(), fo	r().					2
	Files, fopen(), fprintf(					rite()		2
	Matrix operations. Op							2
	Functions, declaratio			sing arg	uments			2
	2D and 3D graphics i							2
	Introduction to nume							2
	Introduction to nume halving and Newton's			on-linear	r equation	IS, SUCCES	sive	2
	Introduction to nume Simpson's method.	rical me	thods. Int	egratior	n, trapezo	id quadrat	ure,	2
	Introduction to nume	rical me	thods. Ap	proxima	ation and	interpolati	ons.	2
	Numerical methods in	n MATL	AB					2
Format of instruction	<ul> <li>☑ lectures</li> <li>☑ seminars and wor</li> <li>☑ exercises</li> <li>☑ on line in entirety</li> </ul>	rkshops		□ mult ⊠ labo	imedia	assignmer	its	
	<ul> <li>□ partial e-learning</li> <li>□ field work</li> </ul>				(other)			
Student responsibilities	The presence on lec Performed all require				least 70 °	% of the ti	mes sc	heduled.
Screening student	Class attendance	3	Researc	h	Pi	ractical tra	ining	
work (name the proportion of ECTS	Experimental work		Report		In	dividual w	ork	2
credits for each activity so that the	Essay		Seminai essay	r	La	aboratory	exercis	es
total number of ECTS credits is	Tests		Oral exa	am		reparation boratory e		s
equal to the ECTS value of the course)	Written exam		Project			(Othe	ər)	
Grading and evaluating student work in class and at the final exam	There are two midte lecturing and the set of respective theore of overall theoretic students that did no exams are carried of positive assessmen exam or the final exa the activities in perce • M1, M2 – ter	cond on tical que al ques ot pass out as v t of lab am. Gra entage:	e is after estions a stions an the midt vritten tes oratory e de (in pe Grade(%	the nex nd nume erm exa sts. The exercises rcentage	t 6 weeks erical prob erical pro ams take requirem s and 50	s. Each m blems. Th blems. In part. The nent for pa % points ed accordi	idterm f e final f the f midter assing ( s on ea	test consists tests consist inal exams, im and final grade is the ach midterm
Required literature (available in the library and via other		Title	•			Number o copies ir the librar	N AVa	iilability via her media

media)	D. Vučina, "Primjena računala u inženjerskoj analizi", Sveučilište u Splitu, FESB, Split, 2007 I. Pehnec, materijali za vježbe		
Optional literature (at the time of submission of study programme proposal)	Željan Lozina, 'Uvod u programiranje', Sveučilište u S S. C. Chapra, R.P. Canale, "Numerical Methods for E G. Lindfield, J. Penny, "Numerical Methods using MA W.Cheney, D. Kincaid, 'Numerical mathematics and	Engineers", Mo TLAB ", Ellis I	Horwood 1995
Quality assurance methods that ensure the acquisition of exit competences	<ul> <li>Evaluation of results in accordance with the abov</li> <li>Feedback from students via surveys</li> <li>Self-evaluation of teachers</li> <li>Institutional and non-institutional evaluations</li> </ul>	e learning out	comes
Other (as the proposer wishes to add)			

NAME OF THE COURSE	COMPUTER AIDED DES	IGN 1							
Code	FEEE11	Year of study	2						
Course teacher	Gojko Magazinović, Ph. D., Full Professor	Credits (ECTS)	5						
Associate teachers	Ivan Pivac, Teaching assistant.	Type of instruction (number of hours)	L 30	S 0	AE 0	LE 0	DE 30		
Status of the course	Obligatory	bligatory Percentage of application of e-learning 50							
	COURS	E DESCRIPTION							
Course objectives	modeling, parametric	plication of basic terms and modeling, and geometric mo nodels, assemblies, and teo ol.	odeling	,					
Course enrolment requirements and entry competences required for the course	-								
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul> <li>and feature based mo</li> <li>describe an importance data between the diffe</li> <li>explain the fundament surface definitions,</li> <li>use a computer aided</li> <li>construct simple geom</li> </ul>	data between the different CAD systems, explain the fundamental principles of the parametric curve and parametric							
			,						
	Course content				_ or S	<i>.</i>	λE		
	Course content	nass properties.			nours		\E ours		
	Course content Introduction to a course. D	nass properties.	portal.		nours 2				
	Course content Introduction to a course. D Introduction to CAD/CAM/	nass properties. Description of an e-learning p CAE systems, part I: basic t	portal. terms.		nours				
	Course content Introduction to a course. D Introduction to CAD/CAM/ Introduction to CAD/CAM/	nass properties. Description of an e-learning p CAE systems, part I: basic t CAE systems, part II: applic	portal. terms.		nours 2				
	Course content Introduction to a course. D Introduction to CAD/CAM/ Introduction to CAD/CAM/ the expansion of 3D CAD	nass properties. Description of an e-learning p CAE systems, part I: basic t CAE systems, part II: applic technology.	portal. terms. cations;		nours 2 2 2 2				
	Course content Introduction to a course. D Introduction to CAD/CAM/ Introduction to CAD/CAM/ the expansion of 3D CAD Elements of CAD/CAM/CA Geometric modeling; featu	nass properties. Description of an e-learning p CAE systems, part I: basic t CAE systems, part II: applic	portal. terms. cations; ware.		nours 2 2				
Course content broken down in detail by weekly	Course content Introduction to a course. D Introduction to CAD/CAM/ Introduction to CAD/CAM/ the expansion of 3D CAD Elements of CAD/CAM/CA Geometric modeling; featu modeling. Introduction to graphics pr	nass properties. Description of an e-learning p CAE systems, part I: basic t CAE systems, part II: applic technology. NE systems; hardware; software	portal. terms. cations; ware. etric ;		2 2 2 2 2 2				
broken down in	Course content Introduction to a course. D Introduction to CAD/CAM/ Introduction to CAD/CAM/ the expansion of 3D CAD Elements of CAD/CAM/CA Geometric modeling; featu modeling. Introduction to graphics pr coordinate systems; hono transformations.	nass properties. Description of an e-learning p CAE systems, part I: basic t CAE systems, part II: applic technology. AE systems; hardware; software based modeling; parame ogramming, part I: OpenGL ogramming, part II: hidden I	portal. terms. cations; ware. etric ; dinate		nours 2 2 2 2 2 2 2				
broken down in detail by weekly class schedule	Course content Introduction to a course. D Introduction to CAD/CAM/ Introduction to CAD/CAM/ the expansion of 3D CAD Elements of CAD/CAM/CA Geometric modeling; featu modeling. Introduction to graphics pr coordinate systems; homo transformations. Introduction to graphics pr	nass properties. Description of an e-learning p CAE systems, part I: basic t CAE systems, part II: applic technology. AE systems; hardware; software based modeling; parame ogramming, part I: OpenGL ogramming, part II: hidden I	portal. terms. cations; ware. etric ; dinate		nours           2           2           2           2           2           2           2           2           2           2           2           2           2           2           2           2           2           2				
broken down in detail by weekly class schedule	Course content Introduction to a course. D Introduction to CAD/CAM/ Introduction to CAD/CAM/ the expansion of 3D CAD Elements of CAD/CAM/CA Geometric modeling; featu modeling. Introduction to graphics pr coordinate systems; homo transformations. Introduction to graphics pr removal; rendering; shadir First midterm exam CAD data structures; exch	nass properties. Description of an e-learning p CAE systems, part I: basic t CAE systems, part II: applic technology. AE systems; hardware; software based modeling; parame ogramming, part I: OpenGL ogramming, part II: hidden I	portal. terms. cations; ware. etric ; dinate line		nours           2           2           2           2           2           2           2           2           2           2           2           2           2           2           2           2           2           2				
broken down in detail by weekly class schedule	Course content Introduction to a course. D Introduction to CAD/CAM/ Introduction to CAD/CAM/ the expansion of 3D CAD Elements of CAD/CAM/CA Geometric modeling; featu modeling. Introduction to graphics pr coordinate systems; homo transformations. Introduction to graphics pr removal; rendering; shadir First midterm exam	nass properties. Description of an e-learning p CAE systems, part I: basic t CAE systems, part II: applic technology. AE systems; hardware; software based modeling; parame ogramming, part I: OpenGL ogeneous coordinates; coord ogramming, part II: hidden I ng; ray-tracing.	portal. terms. cations; ware. etric ; dinate line		nours       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2				
broken down in detail by weekly class schedule	Course content Introduction to a course. D Introduction to CAD/CAM/ Introduction to CAD/CAM/ the expansion of 3D CAD Elements of CAD/CAM/CA Geometric modeling; featu modeling. Introduction to graphics pr coordinate systems; homo transformations. Introduction to graphics pr removal; rendering; shadir First midterm exam CAD data structures; exch different CAD systems. Parametric curves, part I:	nass properties. Description of an e-learning p CAE systems, part I: basic t CAE systems, part II: applic technology. AE systems; hardware; software based modeling; parame ogramming, part I: OpenGL ogeneous coordinates; coord ogramming, part II: hidden I ng; ray-tracing.	portal. terms. cations; ware. etric ; dinate line en the		nours       2				
broken down in detail by weekly class schedule	Course content Introduction to a course. D Introduction to CAD/CAM/ Introduction to CAD/CAM/ the expansion of 3D CAD Elements of CAD/CAM/CA Geometric modeling; featu modeling. Introduction to graphics pr coordinate systems; homo transformations. Introduction to graphics pr removal; rendering; shadir First midterm exam CAD data structures; exch different CAD systems. Parametric curves, part I:	nass properties. Description of an e-learning p CAE systems, part I: basic t CAE systems, part II: applic technology. AE systems; hardware; software ire based modeling; parame ogramming, part I: OpenGL ogramming, part II: hidden I ng; ray-tracing. Hermite curve. Bezier curve; B-Spline curve interpolation curve; geome	portal. terms. cations; ware. etric dinate line en the		nours       2				

	surface; NURBS sur	face							
	Modeling and analys		ief on str	uctural	analvsis	).		2	
	Second midterm exa					<i>.</i>		~	
								1	E or DE
	List of laboratory or o	design e	exercises						hours
	The environment of C	CAD de	sian tool:	extrusic	on of a c	losed curve	Э.		2
	Sketch tool; extrude;								2
	Simple model editing								2
	Revolving of a closed	d curve.							2
	Design planes.								2
	Sections; shells, con								2
	Translation patterns; Radial patterns of se			nension	ai.				2
	Radial patterns of bu			re convi	ina				2
	Helical sweep.	in reatu	ies, ieatu	те соруг	ing.				2
	Making assemblies.								2
	Technical drawing pr	eparatio	on, part I.						2
	Technical drawing pr	eparatio	on, part II						2
	⊠ lectures			□ inde	nenden	t assignme	nte		
	$\Box$ seminars and wo	rkshops	;		-	assignme	1113		
Format of instruction	<ul> <li>□ seriminals and workshops</li> <li>□ multimedia</li> <li>□ laboratory</li> </ul>								
	$\Box$ on line in entirety	on line in entirety							
	⊠ partial e-learning			-		ork (other)			
	□ field work				p	•••• (•••••)			
Student	Attendance of at leas	st 70%	lectures a	and all d	esian e	xercises.			
responsibilities			1						1
Screening student work (name the	Class attendance	2	Researc	h		Practical training		ng	
proportion of ECTS	Experimental work		Report		Individual v				0,8
credits for each				1					
activity so that the	Essay		Seminar essay			Computer	Computer work		
total number of	Tests	0,2	Oral exa	m		(Other)			
ECTS credits is equal to the ECTS	1 6515	0,2	Ulai exa	a111					
value of the course)	Written exam		Project			(Oth	Other)		
Grading and evaluating student work in class and at the final exam	There are two midte and e-learning porta and two design pro midterm exams. The responsibilities and Grade (in percentag where M1 and M2 a grades from 50% to from 75% to 87%; an	al; 90 n blems). e requir at least e) is def are the 61%; go	ninutes c The fina ements f : 50% po termined Grade(' midterm ood (3), g	luration; al exami- or passi ints on ( as follov %) = (M grades. rrades fr	each e s attend ng grad each m ws: 1 + M2) The fir rom 62%	exam: 25 tl d students de are the f idterm exar /2 nal grades a 6 to 74%; v	heor that fulfill n or are: ery (	retical qu didn't p Iment of the fina satisfac	tory (2),
Required literature (available in the	Title					Number copies i the libra	n	Availab other	media
library and via other	G. Magazinović, Bilje	eske uz	predava	nja, FES	ЪВ	-		e-lea	-
media)	P. Toogood: Crog P.	aramati		torial an	d			por	
	R. Toogood: Creo Pa Multimedia DVD, SD					1		https://b	-
Ontional literature						ddiaar M/	Jairi	ogle	
Optional literature	- K. Lee: Principles	s of CAL	J/CAM/C	AE Syst	ems, Ad	aaison-wes	siey,	Reading	j, 1999.

(at the time of submission of study programme proposal)	<ul> <li>C. McMahon, J. Browne: CADCAM: Principles, Practice and Manufacturing Management, Prentice-Hall, Harlow, 1998.</li> </ul>
Quality assurance methods that ensure the acquisition of exit competences	<ul> <li>Evaluation of results by the above learning outcomes</li> <li>Feedback from students via surveys</li> <li>Institutional and non-institutional evaluations</li> </ul>
Other (as the proposer wishes to add)	

NAME OF THE COURSE	DESIGN FOR MANUFACT	TURING					
Code	FETC12	Year of study	3				
Course teacher	Nikola Gjeldum, Ph. D. Assistant Professor	Credits (ECTS)	4				
Associate teachers	Marina Crnjac, Teaching assistant Ivan Peko, Teaching assistant	Type of instruction (number of hours)	L 30	S 0	AE 0	LE 0	DE 30
Status of the course	Elective	Percentage of 50 % application of e-learning					
	COURSE	DESCRIPTION	_				
Course objectives	<ul> <li>Teach students to design Teach student to design shapes availability and</li> <li>Teach student to analyze possible to make improvided</li> </ul>	lication of Design for Man gn a product in Siemens N n a product taking into acc available manufacturing e ze a product and distinguis vements	X CAI ount a quipm	D softw costs ent	vare , raw n	nateria	
Course enrolment requirements and entry competences required for the course	None						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul> <li>Students will be able to: <ul> <li>Design a product according to Design for Manufacturing guidelines</li> <li>Design a product in Siemens NX CAD software</li> <li>Generate designed product drawings</li> <li>Combine application of different raw materials and technological processes during product design phase</li> <li>Compare different product elements according to Design for Manufacturing criteria</li> <li>Adapt product elements design aiming to cheaper and faster production</li> </ul></li></ul>						
	process Course content				Lł	nours	
	Introduction and historical v development	riew of Design for Manufac	turing			2	
	Basic concepts of Design for			2			
	Economical choice of produ			2			
Course content	Economical choice of raw n			2			
broken down in detail by weekly class schedule	General principles and guidelines of Design for Manufacturing					4	
(syllabus)	Lean manufacturing method		2				
	First midterm exam		2				
	Product design for machinir	ng processes				2	
	Product design for deformin casting processes	r		2			
	Product design for polymer	materials production proce	esses			1	

	Product design for	surface	treatment p	process	ses		2	
	Product design for t	2						
	Product design mod	dificatio	ns				2	
	Basics of Design fo						1	
	Second midterm ex						2	
	List of design exerc	sises					DE hours	
	Introduction in Siem		CAD soft	ware			2	
	Part design in Siem	iens NX	,				10	
	Product design mod	8						
	Generating product	drawin	gs in Sieme	ens NX			6	
Format of instruction	<ul> <li>☑ lectures</li> <li>☑ seminars and workshops</li> <li>☑ exercises</li> <li>☑ on line in entirety</li> <li>☑ partial e-learning</li> <li>☑ field work</li> <li>□ independent assignm</li> <li>☑ multimedia</li> <li>☑ laboratory</li> <li>□ work with mentor</li> <li>□ (other)</li> </ul>					ients		
Student responsibilities	The presence on le scheduled.	ctures a	and exercis	es in th	ie amou	nt of at lea	ast 70 % of the	times
Screening student	Class attendance	1	Research			Practical	training	0,5
work (name the proportion of ECTS credits for each	Experimental work	al Report Individua					ndividual work	
activity so that the	Essay		Seminar e	essay		(O	other)	
total number of ECTS credits is	Tests	0,2	Oral exam	m (C			ther)	
equal to the ECTS value of the course)	Written exam	0,1	Project		(C		other)	
	During semester there are two midterm exams. The first midterm exam is after 7 weeks of lecturing and the second one is after the next 6 weeks. In the first two final exams students that did not pass at least one of the midterm exams take part. In the third and fourth final exams students take the whole exam regardless results of midterm exams. The requirements for passing grade are positive assessment of individual project and positive assessment in exam. Positive assessment represents minimal 50% points on each midterm exam or minimal 50% points on final exam. Final exams are conducted in written form. Midterm exams and final exams consist of theoretical questions and numerical problems.							vo final In the sults of nent of resents exam.
Grading and evaluating student work in class and at the final exam	Grade (%) = (D + E) / 2 $D - Individual project grade (%)$ $E - average points achieved on midterm exams expressed as a percentage of number of points achieved on the final exam expressed as a percentage.$ $E = (M1 + M2)/2$ $M1, M2 - average points achieved on midterm exams expressed as a percentage.$ $Grade (%): Final mark:$ $50% - 61%  sufficient (2)$ $62% - 74%  good (3)$ $75% - 87%  very good (4)$ $88% - 100%  excellent (5)$							-
Required literature		Tit	le			Numbe	r of Availabi	lity via

(available in the library and via other		copies in the library	other media
media)	Gjeldum, N.: "Dizajn za proizvodnju", lectures on e-		Internet (e-
	learning, FESB Split		learning)
	Marinescu, I., Boothroyd, G.: "Product design for	1	
	manufacture and assembly", Marcel Dekker, New		
	York, 2002.		
	Corrado P.: "Design for Manufacturing: A Structured	1	
	Approach, 1st Edition", Butterworth-Heinemann,		
	Woburn, 2001.		
Optional literature (at the time of submission of study programme proposal)	<ol> <li>A.J.D.Lambert Surendra M. Gupta: "Disassembly Maintenance, Reuse, and Recycling", CRC Pres</li> <li>Molloy, O., Tilley, S., Warman, E.: "Design for ma Concepts, architectures and implementation, Spr Media, 1998.</li> <li>WEB publications on DFM</li> </ol>	s, 2000. anufacturing a	nd assembly –
Quality assurance methods that ensure the acquisition of exit competences	<ul> <li>keeping records of the attendance of students</li> <li>annual evaluation of teachers</li> <li>periodical evaluation of individual project advance</li> <li>feedback from students via surveys</li> <li>self-evaluation of teachers</li> <li>institutional and non-institutional evaluations</li> </ul>	ement	
Other (as the proposer wishes to add)			

NAME OF THE COURSE	DESIGN OF INDUSTRIAI	PRODUCTS						
Code	FESE04	Year of study	3					
Course teacher	Željko Domazet, Ph. D., Full Professor Lovre Krstulović-Opara, Ph. D., Full Professor	Credits (ECTS)						
		Type of instruction		S	AE	LE	DE	
Associate teachers		(number of hours)	30	0	0	0	30	
Status of the course	Obligatory	Percentage of application of e-learning						
	COURSI	E DESCRIPTION						
Course objectives	<ul> <li>development with goal industrial products.</li> <li>Acquiring knowledge a designing industrial pro from market and concernance.</li> </ul>	ology and methodologies of to optimise applicability, s bout fundaments, method oducts. The course covers ept researches to the produ- olidWorks and 3D scanner	shape a s and t product uct ram	and ap echno ct deve np up.	peara logies elopm	nce of for ent pro	ocess	
Course enrolment requirements and entry competences required for the course	None				JOLYP	53.		
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul> <li>Name main epochs of</li> <li>Name main designers</li> <li>Explain basic of ergonic</li> <li>Explain generalised price</li> <li>Describe advanced metalised</li> </ul>	<ul> <li>Name main designers and design schools.</li> <li>Explain basic of ergonomics, aesthetics and gestalt theory.</li> <li>Explain generalised product development process.</li> <li>Describe advanced methods of rapid prototyping and 3D scanning</li> <li>Design and create simple industrial product by using SolidWorks package.</li> </ul>						
		<u> </u>			hours	ho	ours	
	Introduction to DIP and get		2					
	Product planning.		2					
	Identifying customer needs		2					
	Product specifications.		2					
	Concept generation and se	election.			2			
•	Product Architecture.				2			
Course content	Industrial design.				2			
broken down in detail by weekly	Design for manufacturing.				2			
class schedule	Prototyping.				2			
(syllabus)	History of industrial design				2			
	Aesthetics.				2			
	Ergonomy.				2			
	Gestalt theory.				2			
	List of laboratory or design	exercises			_	DF	hours	
	CAD modelling in software						6	
	3D scanning	- soliday of the soliday of the					1	
	Product development from	the market research to the	CAD I	orototv	pe.		13	
	Preparing final report and p						8	

Format of instruction	<ul> <li>Seminars and workshops</li> <li>⊇ exercises</li> <li>□ on line in entirety</li> <li>□ partial e-learning</li> <li>□ work with m</li> </ul>								
Student responsibilities									
Screening student work (name the	Class attendance	2	Researc	h		Practical traini	ng		
proportion of ECTS	Experimental work		Report Seminar essay 2		Individual work	<	1		
credits for each activity so that the total number of	Essay				(Other)				
ECTS credits is	Tests		Oral exa	ım		(Other)			
equal to the ECTS value of the course)	Written exam		Project			(Other)			
Grading and evaluating student work in class and at the final exam	Evaluation of gained Maximal score is 10 Exam: individual, the Mode of exam: writte	0 points eoretical	, while mi I.				with 50 pc	oints.	
Required literature		Title	)			Number of copies in the library	Availab other i	-	
Required literature (available in the	Design of industrial	products		tian)		copies in	other i E-lea	media rning	
(available in the library and via other	Design of industrial Additional course ma	products		tian)		copies in	other I	media rning	
(available in the	-	products		tian)		copies in	other i E-lea	media rning	
(available in the library and via other media)	Additional course ma	products	s (in Croa			copies in the library	other I E-lea E-lea	media rning	
(available in the library and via other media) Optional literature (at the time of submission of study programme proposal)	Additional course ma Otto, K. N., Wood K. Quarante D. Osnove	oroducts aterials . L., Pro e industr	s (in Croa	gn, Pre		copies in the library	other I E-lea E-lea	media rning rning	
(available in the library and via other media) Optional literature (at the time of submission of study programme	Additional course ma	L., Pro industr	s (in Croa duct Desi ijskog diz	gn, Pre ajna, S		copies in the library	other I E-lea E-lea	media rning rning	
NAME OF THE COURSE	ELECTRICAL ENGINEER	RING							
---	---	---	---------	--------	------------	----------	------------	--	--
Code	FENE01	Year of study	2.						
Course teacher	Ivica Jurić-Grgić, Ph. D., Associate Professor	Credits (ECTS)	6						
Associate teachers	Nedjeljka Grulović – Plavljanić, Senior Lecturer Ivan Krolo, Teaching Assistant	Type of instruction (number of hours)	L 30	S 0	AE 15	LE 15	DE 0		
Status of the course	Obligatory	Percentage of application of e-learning	0						
	COURSE	DESCRIPTION	•						
Course objectives	<ul><li>setting up and solving</li><li>permanent adoption of</li></ul>	nciples and laws of electric simple electrical circuits, basic knowledge in the fie	-		•	chines.			
Course enrolment requirements and entry competences required for the course	None								
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul> <li>engineering,</li> <li>apply fundamental law electromagnetic quanti</li> <li>analyse simple electric</li> <li>measure basic electric</li> </ul>	define the fundamental phenomena, the quantities and the laws of electrical							
	Course content				L hours		\E ours		
	Basic terms. Electrostatics matter. Coulomb's law; Ele Gauss's law.			of	2		1		
	Electrostatics:Electrical wo electrostatic potential, capa capacitors.		2		1				
	Electrostatics: Matter in ele		atic		2		1		
Course content broken down in detail by weekly	electricity; lightning protection. DC currents: Electric circuits; electrical property of matter; Electrical conductivity and electrical resistance; voltage and current sources; Ohm's law; temperature dependence of electrical resistance; series, parallel and combination circuits.						1		
class schedule (syllabus)	DC currents: Kirchhoff's La current.	ws; power and energy of l	DC		2		1		
	DC currents: Current and v resistance measurement; V transformation; circuit anal chemical sources of electri	Wheatstone bridge; Wye–I ysis techniques; electrolys	Delta		2		2		
	Magnetism: Basics of mag electromagnet; magnetic fl on moving charges and on magnetic force between tw Biot–Savart law; Ampere's	s of magnetism; natural magnet and agnetic flux; Faraday's law; magnetic forces es and on a current-carrying wire; 2 etween two parallel current-carrying wires; Ampere's Law; toroidal solenoid.					1		
	Magnetism: Mutual and se flux; ferromagnetism; magr		nagneti	ic	2		1		

	magnetic circuit; mag	anetic e	nerav. m	agnetic	force						
	AC currents: Current and crest factor; gen Euler's formula for co AC Circuits; Ohm's la impedance in AC Cir circuits.	t and vo eration omplex aw in co	Itage sin of a volta numbers omplex fo	usoidal ige sinu ; phase rm; resi	wavefor soidal v relation stive ar	vaveform; ships in id reactive	2	2			
	AC currents: Power a techniques using cor						2	2			
	Transformers						2	0			
	Synchronous machir	nes					2	0			
	Induction motors						1	0			
	DC motors; universa	motors; universal motors.									
	List of laboratory exe	ercises						LE hour			
	Series, parallel and c		tion DC o	rcuits				3			
	Kirchhoff's Laws and							3			
	Resistive and reactiv	e imped	lance in <i>l</i>	AC Circu	uits			3			
	Power of AC current							3			
	Open circuit test on t	ransforr	ner	1				3			
Format of instruction		<ul> <li>☐ on line in entirety</li> <li>☐ partial e-learning</li> <li>☑ (other)</li> </ul>									
Studentresponsibiliti es	The presence on lec Performed all require				t least 7	'0% of the ti	mes sche	duled.			
Screening student work (name the	Class attendance	1	Researc				aining				
proportion of ECTS	Experimental work		Report			Individual v	vork	4			
credits for eachactivity so that	Essay		Seminal essay	·		Laboratory exercises		0,5			
the total number of ECTS credits is equal to the ECTS	Tests	0,2	Oral exa	am		Preparation for laboratory exercises		0,2			
value of the course)	Written exam	0,1	Project			(Other)					
Grading and evaluating student work in class and at the final exam	eighth week of class can pass the entire e At the two final exami- midterm tests. If at curriculum that part of exam. The condition for po part of the curriculur percent) is formed of Rating (%) = $0.1 * L^{1}$ wherein the activity i LV -percentage obta	ests       0,2       Oral exam       Iaboratory exercises       0,2         Vritten exam       0,1       Project       (Other)       Integration         During the semester there will be two midterm tests.       The first test will be at the fighth week of classes, the second at the first week of the exam period.       Student an pass the entire exam by midterm tests.         At the two final exams, students take parts of the curriculum that did not pass by hidterm tests.       If at the first final exam student passes one of the two parts of urriculum that part of curriculum the student does not have to take on another final									

	the last week of August or the first week of September. Last chance to take the exam in this school year is a so-called commission exam. In a so-called commission exam all students take the entire curriculum, and the condition for positive assessment is that the student has at least 50% of entire curriculum. The final score (in percentage) is formed on the basis of all activities according to the formula: Rating (%) = $0.1 * LV + 0.9 * G$ wherein the activity is expressed in percentage according to: LV -percentage obtained by laboratory exercises, G - percentage obtained by exams of the entire curriculum given in lectures. The final grade is determined as follows: Rating Grade 50% to 61% sufficient (2) 62% to 74% good (3) 75% to 87% very good (4) 88% 100% excellent (5)						
Required literature (available in the	Title	Number of copies in the library	Availability via other media				
library and via other media)	I. Jurić-Grgić: Lectures, FESB		e-learning portal				
Optional literature (at the time of submission of study programme proposal)	A. Maletić: Osnove elektrotehnike, ELMAP, Split, 199 R. Wolf: Osnove električnih strojeva, Školska knjiga,						
Quality assurance methods that ensure the acquisition of exit competences	<ul> <li>Evaluation of students presence on lectures</li> <li>Evaluation of results in accordance with the above learning outcomes</li> <li>Feedback from students via surveys</li> <li>Self-evaluation of teachers</li> <li>Institutional and non-institutional evaluations</li> </ul>						
Other (as the proposer wishes to add)							

ENGINEERING GRAPHIC	CS 1								
FESE11	Year of st	udy	1						
Željko Domazet, Ph.D., Full Professor	Credits (E	ECTS)	4						
Miro Bugarin, Ph.D., Assistant Professor, Ivan Špar, Teaching assistant Dejan Bobić, Teaching assistant, Joško Kunac, Teaching assistant, Petra Bagavac, Teaching assistant			L 15	S 0	AE 0	LE 0	DE 30		
Obligatory			40%						
COURSE	COURSE DESCRIPTION								
- Getting knowlage of de	escriptive g	eometry	ections	of geo	ometri	cal boo	lies		
None	one								
<ul> <li>understand any technic</li> <li>apply general laws of d</li> <li>precisely draw any cross</li> </ul>	<ul> <li>Create 2D and 3D techical drawings</li> <li>understand any technical drawing</li> </ul>								
Course content							λE		
Introduction and general te	erms				1		Juis		
Ortogonal projection on 2 c	or 3 planes				1				
Mutual position between po	oint, line ar	nd plane			1				
Metrics tasks		-			2				
Projections of a geom. bod	ly				2				
I. colloquium					2				
Cross sections of different	geometrica	al bodies			2				
					2				
II. colloquium					2				
List of constructive exercise	es					h	ours		
Metrics tasks							8		
							6		
							8		
	ometrical b	odies					8		
<ul> <li>seminars and workshop</li> <li>exercises</li> <li>on line in entirety</li> <li>partial e-learning</li> </ul>	I lectures       ⊠ independent assignments         I seminars and workshops       □ multimedia         I exercises       □ laboratory         I on line in entirety       □ work with mentor         □ partial e-learning       □ (other)								
	FESE11         Željko Domazet, Ph.D.,         Full Professor         Miro Bugarin, Ph.D.,         Assistant Professor, Ivan         Špar, Teaching assistant         Dejan Bobić, Teaching         assistant, Joško Kunac,         Teaching assistant, Petra         Bagavac, Teaching         assistant         Obligatory         COURSI         Training students for:         - Reading and making te         - Getting knowlage of de         - Solving metrics tasks,         None         Students will be able to:         - Create 2D and 3D tech         - understand any techning         - apply general laws of co         - precisely draw any croot         Course content         Introduction and general te         Ortogonal projection on 2 co         Mutual position between point         Metrics tasks         Projections of a geom. bood         I. colloquium         Cross sections of different ge         II. colloquium         List of constructive exercists         Metrics tasks         Mutual position between point         Cross sections of different ge         II	Željko Domazet, Ph.D., Full Professor       Credits (E         Miro Bugarin, Ph.D., Assistant Professor, Ivan Špar, Teaching assistant Dejan Bobić, Teaching assistant, Joško Kunac, Teaching assistant, Petra Bagavac, Teaching assistant       Type of in (number of application)         Obligatory       Percentage application         Obligatory       Percentage application         Training students for: - Reading and making technical drawing - Solving metrics tasks, cross sect         None         Students will be able to: - Create 2D and 3D techical drawing - apply general laws of descriptive g precisely draw any cross section Course content         Introduction and general terms         Ortogonal projection on 2 or 3 planes Mutual position between point, line ar Metrics tasks         Projections of a geom. body I. colloquium         List of constructive exercises         Metrics tasks         Mutual position between point, line an Cross sections of different geometrical Intersections of different geome	FESE11       Year of study         Željko Domazet, Ph.D., Full Professor       Credits (ECTS)         Miro Bugarin, Ph.D., Assistant Professor, Ivan Špar, Teaching assistant Dejan Bobić, Teaching assistant, Petral Bagavac, Teaching assistant       Type of instruction (number of hours)         Percentage of application of e-learning       Percentage of application of e-learning         Obligatory       Percentage of application of e-learning         Training students for: - - - Reading and making technical drawings - Getting knowlage of descriptive geometry - Solving metrics tasks, cross sections and interset None         Students will be able to: -	FESE11       Year of study       1         Željko Domazet, Ph.D., Full Professor       Credits (ECTS)       4         Miro Bugarin, Ph.D., Assistant Professor, Ivan Špar, Teaching assistant Dejan Bobić, Teaching assistant       Type of instruction (number of hours)       15         Bagavac, Teaching assistant       Percentage of application of e-learning       40%         Obligatory       Percentage of application of e-learning       40%         Training students for:       -       Reading and making technical drawings         -       Getting knowlage of descriptive geometry       -         -       Solving metrics tasks, cross sections and intersections         None       -       -         Students will be able to:       -       -         -       Create 2D and 3D techical drawings       -         -       apply general laws of descriptive geometry       -         -       precisely draw any cross section or intersection of geon         Course content       -       -         Introduction and general terms       -       -         Ortogonal projection on 2 or 3 planes       -       -         Mutual position between point, line and plane       -       -         Mutual position between point, line and plane       -       -         <	FESE11       Year of study       1         FelsE11       Credits (ECTS)       4         Miro Bugarin, Ph.D., Assistant Professor, Ivan Spar, Teaching assistant Dejan Bobić, Teaching assistant, Joško Kunac, Teaching assistant, Petra Bagavac, Teaching assistant       Type of instruction (number of hours)       15       0         0bligatory       Percentage of application of e-learning       40%         COURSE DESCRIPTION         Training students for: - Reading and making technical drawings - Getting knowlage of descriptive geometry - Solving metrics tasks, cross sections and intersections of geot None         Students will be able to: - Create 2D and 3D techical drawings - understand any technical drawing - apply general laws of descriptive geometry - precisely draw any cross section or intersection of geometrical Course content       Introduction and general terms         Ortogonal projection on 2 or 3 planes       Mutual position between point, line and plane       Metrics tasks         Projections of a geom. body       1       colloquium       I         L       colloquium       I       colloquium       I         List of constructive exercises       independent assignments       I         Metrics tasks       I       colloquium       I         List of constructive exercises       independent assignments       I         Intersections of different geometrical bodies       independent assig	FESE11       Year of study       1         Žejko Domazet, Ph.D., Full Professor       Credits (ECTS)       4         Miro Bugarin, Ph.D., Assistant Professor, Ivan Spar, Teaching assistant Dejan Bobić, Teaching assistant, Joško Kunac, Teaching assistant, Petra Bagavac, Teaching assistant       L       S       AE         Digatory       Percentage of application of e-learning       40%       0         COURSE DESCRIPTION         Training students for: - Reading and making technical drawings         - Reading and making technical drawings         - Getting knowlage of descriptive geometry       - Solving metrics tasks, cross sections and intersections of geometrical bodic         None       - Course content       L or S hours         Students will be able to: - Create 2D and 3D techical drawing       - understand any technical drawing         - understand any technical drawing       - understand any technical drawing         - understand any technical drawing       - understand any technical drawing         - understand any technical drawing       - understand any technical drawing         - understand any technical drawing       - understand any technical drawing         - understand any technical drawing       - understand any technical drawing         - understand any technical drawing       - unore         - Corea	FUE       Year of study       1         Željko Domazet, Ph.D., Ruin Professor, Ivan Spar, Teaching assistant Dejan Bobić, Teaching assistant, Joško Kunac, Teaching assistant, Joško Kunac, Teaching assistant Bagavac, Teaching assistant Obligatory       Type of instruction (number of hours)       15       0       0       0         Obligatory       Percentage of application of e-learning       40%       40%         COURSE DESCRIPTION         Training students for: - Reading and making technical drawings - Getting knowlage of descriptive geometry       50/00000000000000000000000000000000000		

Student responsibilities	Lectures 70%, Exerc	cises 10	00%							
Screening student work (name the	Class attendance	1	Research	F	Practical traini	ng				
proportion of ECTS	Experimental work		Report	I	ndividual worl	K	1			
credits for each activity so that the total number of	Essay		Seminar essay	(	Constructive ta	asks	1			
ECTS credits is	Tests	0.5	Oral exam		(Other)					
equal to the ECTS value of the course)	Written exam	0.5	Project		(Other)					
Grading and evaluating student work in class and at the final exam	Maximal score is 10 Exam: individual,pra	aluation of gained knowledge in form of two colloquiums. ximal score is 100 points, while minimum is passing of exam is with 50 points. am: individual,practical. de of exam: written form.								
			Number of copies in the library	Availab other i	-					
Required literature (available in the	Ž. Domazet, M. Bug GRAFIKA"-materials		E-lea	learning						
library and via other media)	Ksenija Horvatić-Bal "NACRTNA GEOME	5	Library	FESB						
					¥					
Optional literature (at the time of submission of study programme proposal)	Zagreb		n, S. Sebastijanović , A GEOMETRIJA" fa							
Quality assurance methods that ensure the acquisition of exit competences	<ul> <li>Student evaluation</li> <li>Registering studen</li> </ul>		ndance to course							
Other (as the proposer wishes to add)										

NAME OF THE	ENGINEERING GRAPH	HICS 2								
COURSE										
Code	FESE12	Year of study	1							
Course teacher	Tonči Piršić, Ph. D., Associate Professor	Credits (ECTS)	4							
Associate teachers	Petra Bagavac, Teaching assistant, Miro Bugarin, Ph. D., Assistant Professor, Ivan Špar, Teaching assistant Joško Kunac, Teaching assistant, Dejan Bobić, Teaching assistant	Type of instruction (number of hours)	L 30	S 0	АЕ 0	LE 0	DE 30			
Status of the course	Obligatory	Percentage of application of e-learning	40%							
	COURSI	E DESCRIPTION								
Course objectives		nical drawings both by har s principles of engineering			ng the	comp	uter.			
Course enrolment requirements and entry competences required for the course	None									
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	Students will be able to: -									
,	Course content				L or S hours		∖E burs			
	Types of drawings. Drawin	g formats.			2		2			
	Part lists. Scales. Line type Prospective views. Isometr				4		4			
	Cross-sections. Hatching. Simplifications in drawings		iews.		4		4			
	Drawing of screw threads. threads. Dimensioning: line	Schematic representation	of		4		4			
Course content broken down in	Dimensioning of cone and Surface roughness. Param symbols and application.	inclination. Dimensioning teters of surface roughnes	s,		4		4			
detail by weekly class schedule (syllabus)	Blocks and their properties Prototype drawing. Tolerar	nces and fits. Fit types.			6		4			
(syllabus)	ISO system of fits. Geome	tric tolerances. Basic of Au	utoCAD	).	2		6			
	List of laboratory or design exercises									

Format of instruction	<ul> <li>lectures</li> <li>seminars and work</li> <li>exercises</li> <li>on line in entirety</li> <li>partial e-learning</li> <li>field work</li> </ul>			□ inde <sub>l</sub> □ multi □ laboi □ work □	imedia ratory						
Student responsibilities	The presence on lect Performed all require				least 7	0 % of the time	es sche	edule	ed.		
Screening student work (name the	Class attendance	1	Researc	h		Practical traini	ng				
proportion of ECTS credits for each	Experimental work		Report			(Other)					
activity so that the total number of	Essay		Seminai essay	•		(Other)					
ECTS credits is	Tests	1	Oral exa	ım		(Other)					
equal to the ECTS value of the course)	Written exam	2	Project			(Other)					
Grading and evaluating student work in class and at the final exam		nere are two midterms and final exams. The first midterm exam is after 7 weeks of cturing and the second one is after the next 6 weeks.									
		Number of copies in the library			ity via edia						
	1. T. Piršić: "Tehničko crtanje", FESB - Split, 2010.										
Required literature (available in the	2. T. Piršić: "AutoCAD u strojarstvu", FESB - Split, 2010.										
library and via other media)	3. Grupa autora: Inž inženjerskih znanja ( Školska knjiga, Zagr										
	4. M. Opalić, M. Klja "Tehničko crtanje", Z	-	-		03.						
Ontional literature	Ó Kaludrauiá "Tal	h : Xi co	ontonio i	alia:" N	la Xia a		una d. 4	005	-		
Optional literature (at the time of submission of study programme proposal)	Ć. Koludrović: "Tel	nnicko	crtanje t	I SIICI, I	Naucha	a knjiga, Beog	jrad, 1	985	).		
Quality assurance methods that ensure the acquisition of exit competences	<ul> <li>Lectures respon each other's wor Department</li> </ul>			•							
Other (as the		each other's work. Occassional class observations and appraisal by Head of Department									

NAME OF THE COURSE	ENGLISH LANGUAGE 1									
Code	FEOE02	Year of study	1							
Course teacher	Mirjana M. Kovač, Ph.D., Assistant Professor	Credits (ECTS)	3							
		Type of instruction	L	S	Е	F				
Associate teachers		(number of hours)	0	30	0	0				
Status of the course	Mandatory	Percentage of application of e-learning								
	COURSI	E DESCRIPTION								
Course objectives	<ul> <li>develop the oral comm</li> <li>adopt scientific and tec</li> </ul>	ading and understanding s unication skills in the profe hnical terminology; uctures typical for technica	essional f	ield;	inical te	kts;				
Course enrolment requirements and entry competences required for the course	None.	one.								
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul> <li>Students will be able to:</li> <li>understand the technical and scientific texts from the textbook;</li> <li>recognize relevant information in the text;</li> <li>interpret tables and graphs;</li> <li>use scientific terminology and phrases;</li> <li>use the passive forms of verbs;</li> <li>appropriately ask questions related to the texts.</li> </ul>									
	Course content					S				
	Introduction, course descrip		nguage k	nowledg	je;	2				
	Unit 1-The engineering pro Study section 1 – The use technical writing. Verbal and nonverbal comr	of the passive forms of ve	rbs in sci	entific a	nd	2				
Course content	Unit 2 - Engineering mecha					2				
broken down in	Study section 2 –Contracte					2				
detail by weekly	Unit 3 - Numbers and Mahe					2				
class schedule	Study section 3 – Mathema	tical symbols used in eng	ineering			2				
(syllabus)	Unit 4 – Engineering materia	als				2				
	Mechanical properties of m	aterials				2				
	Study section 5 – Compour	nd nouns				2				
	Unit 6 - Stress and strain					2				
	Study section 6 – Irregular	plurals				2				
	Unit 7 - Design stresses and a factor of safety									
	Study section 7- Derived ac	djectives				2				
Format of instruction	□ lectures       □ independent assignments         ⊠ seminars and workshops       □ multimedia         □ exercises       □ laboratory         □ on line in entirety       □ work with mentor         □ partial e-learning       □ (other)									

	☐ field work											
Student responsibilities	Active participa individual work.		activities: lect	ures, consulta	tions, searching	g the literature,						
Screening student work (name the	Class attendance	1,1	Research		Practical traini	ng						
proportion of ECTS credits for each	Experimental work		Report	0,5	Individual work	< 1,1						
activity so that the total number of	Essay		Seminar essay		(Other)							
ECTS credits is equal to the ECTS	Midterm exam	0,2	Oral exam		(Other)							
value of the course)	Written exam	0,1	Project		(Other)							
Grading and evaluating student work in class and at the final exam	is after 7 weeks lowest passing the midterm exit a percentage of ECTS grading s University of Sp the best 15% a following 35% a the two exams	There are two midterm exams and two examination periods. The first midterm exam is after 7 weeks of lecturing, and the second one is after the next 6 weeks. The lowest passing point is 50% in each midterm exam. The students who do not pass the midterm exams write the exams. The final grade for the course is calculated as a percentage of points earned. The final grade is determined applying the relative ECTS grading scale in accordance with the Rules of the Studying System of the University of Split. Those obtaining passing grades are divided into four subgroups: the best 15% are awarded an excellent grade, the next 35% a very good grade, the following 35% a good grade, and the final 15% a sufficient grade. Students who fail the two exams in the first examination period take the exam in the autumn final examination period. The final exam consists of the material covered in both midterm										
Required literature (available in the		-	Title		Number of copies in the library	Availability via other media						
library and via other media)			ć, N.: Present ommunication		20							
Optional literature (at the time of submission of study programme proposal)	Davies, J. W.: ( Students. Pears Harris, T. E., SI Education/Allyr	son: Pren nerblom, .	tice Hall, 2001 J.C.: Small Gr	oup and Team								
Quality assurance methods that ensure the acquisition of exit competences Other (as the proposer wishes to	<ul> <li>Evaluation of results in accordance with the above learning outcomes</li> <li>Feedback from students via surveys</li> <li>Self-evaluation of teachers</li> <li>Institutional and non-institutional evaluations</li> </ul>											
add)												

NAME OF THE COURSE	ENGLISH LANGUAGE 2							
Code	FEOE03	Year of s	tudy	1				
Course teacher	Mirjana M. Kovač, Ph.D., Assistant Professor	Credits (E	ECTS)	3				
Associate teachers		Type of ir (number	nstruction of hours)	L 0	S 30	Е 0	F 0	
Status of the course	Mandatory	Percenta application	ge of on of e-learning					
	COURSI	E DESCRI	PTION					
Course objectives	<ul> <li>develop the skills of rea</li> <li>develop the oral comm</li> <li>adopt scientific and tec</li> <li>master grammatical str</li> </ul>	unication s hnical term	kills in the profe ninology;	ssional f	ield;	inical te	xts;	
Course enrolment requirements and entry competences required for the course	None.							
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul> <li>Students will be able to:</li> <li>use effectively basic grammar rules for sentence structures: relative clause and conditional sentences in everyday language;</li> <li>understand the technical and scientific texts from the textbook;</li> <li>recognize relevant information in the text;</li> <li>use scientific terminology and phrases in business English;</li> <li>give oral presentations;</li> <li>write an effective CV, business letters, job applications.</li> </ul>							
	Course content						S	
	Introduction, course descrip	otion, oral e	evaluation of lan	iguage k	nowledg	je	2	
	Unit 1-Globalisation: discussion, reading and listening, language work; comparing							
	Managing telephone calls;	case study	: Writing				2	
	Unit 2-Brands: discussion,	reading an	d listening, lang	uage wo	ork		2	
Course content broken down in	Talking about three favourit in meetings; case study				• •	irts	2	
detail by weekly class schedule	Unit 4-Advertising: discussi articles	-	-	-	tening;		2	
(syllabus)	Presentation skills (starting	•	/ 1				2	
	Presentation skills (managi	<u> </u>		tion			2	
	Presentation skills (negotia	•	0,				2	
	Unit 9-Money-dealing with t case study	figures, rea	ading and listeni	ng, lang	uage wo	ork;	2	
	Financial market-language work 2							
	Writing skills:report 2							
	Rehearsal and preparation	for the exa	am				2	
Format of instruction	□ lectures       ⊠ independent assignments         □ seminars and workshops       □ multimedia         □ exercises       □ laboratory         □ on line in entirety       □ work with mentor							

	<ul><li>□ partial e-lear</li><li>□ field work</li></ul>	ning		□ (othe	er)					
Student responsibilities	Active participa individual work.		activities: lect	tures, consulta	tions, searching	g the literature,				
Screening student work (name the	Class attendance	1,1	Research		Practical traini	ng				
proportion of ECTS credits for each	Experimental work		Report	0,5	Individual work	k 1,1				
activity so that the total number of	Essay		Seminar essay		(Other)					
ECTS credits is equal to the ECTS	Midterm exam	0,2	Oral exam		(Other)					
value of the course)	Written exam	0,1	Project		(Other)					
Grading and evaluating student work in class and at the final exam	is after 7 weeks lowest passing the midterm ex a percentage o ECTS grading s University of Sp the best 15% a following 35% a the two exams	There are two midterm exams and two examination periods. The first midterm ex s after 7 weeks of lecturing, and the second one is after the next 6 weeks. The owest passing point is 50% in each midterm exam. The students who do not pas the midterm exams write the exams. The final grade for the course is calculated a percentage of points earned. The final grade is determined applying the relative ECTS grading scale in accordance with the Rules of the Studying System of the Jniversity of Split. Those obtaining passing grades are divided into four subgroup the best 15% are awarded an excellent grade, the next 35% a very good grade, to following 35% a good grade, and the final 15% a sufficient grade. Students who find the two exams in the first examination period take the exam in the autumn final examination period. The final exam consists of the material covered in both midte								
Required literature		-	Title		Number of copies in the library	Availability via other media				
(available in the library and via other	Cotton, D., Falv Intermediate Bu	•			20					
media)	Kovač, M.M., S Interpersonal C									
Optional literature (at the time of submission of study programme proposal)										
Quality assurance methods that ensure the acquisition of exit competences	<ul><li>Feedback f</li><li>Self-evaluation</li></ul>	Evaluation of results in accordance with the above learning outcomes Feedback from students via surveys Self-evaluation of teachers Institutional and non-institutional evaluations								
Other (as the proposer wishes to add)										

NAME OF THE COURSE	EXPERIMENTAL METHOD	S IN ENGINEERING								
Code	FESE 16	Year of study	3							
Course teacher	Željko Domazet, Lovre Krstulović-Opara	Credits (ECTS)	4							
Associate teachers	Petra Bagavac	Type of instruction (number of hours)	L	S	AE	LE	DE			
Status of the course	Mandatory	Percentage of	28 40%			28				
	-	application of e-learning								
		E DESCRIPTION								
Course objectives	<ul> <li>subjected to loadings of</li> <li>Estimating real exploits</li> <li>and infrared thermogram</li> </ul>	ation loading by means of aphy. means of ultrasound testi	strain (	gauge	meas	uremei				
Course enrolment requirements and entry competences required for the course	None									
	Students will be able to:									
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul> <li>Explain main experime</li> <li>Describe strain gauge</li> <li>Describe infrared therr</li> <li>Describe ultrasound m</li> </ul>	<ul> <li>Explain main experimental methods in engineering.</li> <li>Describe strain gauge method.</li> <li>Describe infrared thermography as NDT method.</li> <li>Describe ultrasound method in detection of cracks.</li> <li>Describe penetrant testing in detection of cracks.</li> </ul>								
	Course content		•		L or S	ŀ	١E			
					hours		ours			
	Introduction to experimenta	al methods in engineering.			2					
	Overview of measurement	techniques in engineering			2					
	Materials response under i	n-service loading condition	ns.		2					
	Types and characteristics	of structural loads (actions	on		0					
	structures).				2					
	Influences on life time prec components.				2					
	Concepts and methods of	fatigue strength.			2					
Course content	Fracture mechanics.				2					
broken down in detail by weekly	Stress concentration.				2					
class schedule	Design of components and	structures.			2					
(syllabus)	Case studies.				2					
	Penetrant testing method.				2					
	Magnetic particles inspecti	on.			2					
	Infrared thermography and	I thermal stress analysis.			2	1				
	List of laboratory or design					LEI	nours			
	Introduction to experimenta		uctural	labora	tory.		1			
	Measurement on servo-hyd						2			
	Strain gauge testing – theo	ry and application of strain		es.	-		10			
	Penetrant testing and magr						2			
	Basics of infrared thermogr and Risitano method.	aphy. Thermoelasticity, pu	Ised th	ermog	Iraphy		4			

	Thermoelasticity, pul	sed the	rmograph	iv and	Risitan	o method.		4
	Ultrasound testing.							3
Format of instruction	<ul> <li>☑ lectures</li> <li>☑ seminars and workshops</li> <li>□ exercises</li> <li>□ on line in entirety</li> <li>□ partial e-learning</li> <li>□ field work</li> <li>□ independent</li> <li>☑ multimedia</li> <li>☑ aboratory</li> <li>□ work with media</li> <li>○ (otherwork)</li> </ul>			/ mentor				
Student responsibilities								
Screening student work (name the	Class attendance	2	Researc	ch		Practical traini	ing	
proportion of ECTS credits for each	Experimental work		Report			Individual wor	k	1
activity so that the total number of	Essay		Semina essay	r	1	(Other)		
ECTS credits is	Tests		Oral exa	am		(Other)		
equal to the ECTS value of the course)	Written exam		Project			(Other)		
Grading and evaluating student work in class and at	Evaluation of gained Maximal score is 10 Exam: individual, the	0 points	s, while m				with 50 p	ooints.
the final exam	Mode of exam: writte							
						Number of copies in the library		oility via media
the final exam Required literature (available in the		en form Titl et, Ž.: Fi	e	ength c	of	copies in	other	-
the final exam Required literature	Mode of exam: writte Grubišić, V., Domaze	en form <b>Titl</b> et, Ž.: Fi	e	ength c	of	copies in	other E-lea	media
the final exam Required literature (available in the library and via other	Mode of exam: writte Grubišić, V., Domaze materials (in Croatia	en form <b>Titl</b> et, Ž.: Fi	e	ength o	of	copies in	other E-lea	<b>media</b> arning
the final exam Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal)	Mode of exam: writte Grubišić, V., Domaze materials (in Croatia Additional course m - K. Hoffmann Hottinger Ba	Titl et, Ž.: Fa n) aterials n: An In aldwin M 7, I. Bor 8.	e atigue str	n to Mea	asuren bH, Da	copies in the library	other E-lea E-lea in Gauge	media arning arning ess,
the final exam Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme	Mode of exam: writte Grubišić, V., Domaze materials (in Croatia Additional course ma - K. Hoffmann Hottinger Ba - M. Andrassy Zagreb, 200	en form Titl et, Ž.: Fi nt aterials n: An In aldwin M y, I. Bor 8.	e atigue str troductior Aesstechr bas, S. Š	n to Mea nik Gml vaić: O	asuren bH, Da	copies in the library	other E-lea E-lea in Gauge	media arning arning ess,

NAME OF THE COURSE	Finance								
Code	FEEE09	Year of study	3						
Course teacher	Josip Visković, PhD – Assistant professor	Credits (ECTS)	4		-				
Associate teachers		Type of instruction (number of hours)	L 30	S	AE 30	LE	DE		
Status of the course	Mandatory	Percentage of application of e-learning							
COURSE DESCRIPTION									
Course objectives Course enrolment	Training students for unde markets, monetary and fise Knowledge of the basic co	cal policies, tax system and					ns,		
requirements and entry competences required for the course	Knowledge of the basic co	ncepts of finance.							
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ol> <li>Identify, analyse and rel</li> <li>Identify and classify bas</li> <li>Relate the role of money regime</li> <li>Categorize and analyse economy</li> <li>Analyse monetary and f</li> </ol>	<ul> <li>4. Categorize and analyse the role of financial intermediaries in the contemporary economy</li> <li>6. Analyse monetary and fiscal policy and their instruments</li> <li>7. Identify the company's position in a given financial national and international</li> </ul>							
	Course content				L or S hours		\E ours		
	Introduction to the financia phenomenology	•			2		2		
	Money and functions of mo aggregates		-		2		2		
	Foreign exchange market	<u> </u>			2		2		
	Fundamental economic red		2		2				
Course content	Monetary - credit multiplica short-term and long-term lo		econon	ny;	2		2		
broken down in	Theories and practical asp	ects of interest rates			2		2		
detail by weekly class schedule	Financial intermediaries - I markets	Financial institutions and fi	nancial		8		8		
(syllabus)	Monetary policy and its ins	struments			2		2		
	Monetary policy and its ins	struments			2		2		
	Basics of the tax system				2		2		
	Basics of financial manage financing and investments		ng-term		4		4		
	List of laboratory or design	exercises					or DE		
						hc	ours		

Format of instruction		] on line in entirety       □ laboratory         ] partial e-learning       □ work with mentor						
Student responsibilities			-					-
Screening student work (name the	Class attendance	0,4	Researc	h		Practical traini	ng	
proportion of ECTS credits for each	Experimental work		Report			Individual assi	gnments	1,2*
activity so that the total number of	Essay		Seminar essay			(Other)		
ECTS credits is	Tests	2,4*	Oral exa	ım		(Other)		
equal to the ECTS value of the course)	Written exam	2,4*	Project			(Other)		
Grading and evaluating student work in class and at the final exam	Two tests or final written exam. *Two tests replace the final written exam. ** During several exercises students work out case studies related to the lecture topic.							
the linal exam								
		Title	9			Number of copies in the library	Availab other	-
Required literature	Nikolić, N; Pečarić, I	M.: Uvo	d u financ	-		copies in		-
Required literature (available in the		M.: Uvo Sveučili	d u financ šta u Split	u, Split,	2012.	copies in the library		-
Required literature	Nikolić, N; Pečarić, I Ekonomski fakultet S	M.: Uvoo Sveučiliš vnog fin	d u financ šta u Split ianciranja	u, Split, , Split, 1	2012. 1999.	copies in the library 10		-
Required literature (available in the library and via other	Nikolić, N; Pečarić, I Ekonomski fakultet S Nikolić, N; Počela ja Vidučić, Lj.: Financis Notes and presentat	M.: Uvoo Sveučiliš vnog fin sjki man	d u financ šta u Split anciranja agement,	u, Split, , Split, 1 2012, F	2012. 1999.	copies in the library105		-
Required literature (available in the library and via other	Nikolić, N; Pečarić, I Ekonomski fakultet S Nikolić, N; Počela ja Vidučić, Lj.: Financis	M.: Uvoo Sveučiliš vnog fin sjki man	d u financ šta u Split anciranja agement,	u, Split, , Split, 1 2012, F	2012. 1999.	copies in the library105		-
Required literature (available in the library and via other media) Optional literature	Nikolić, N; Pečarić, I Ekonomski fakultet S Nikolić, N; Počela ja Vidučić, Lj.: Financis Notes and presentat	M.: Uvoo Sveučiliš vnog fin sjki man tions fro	d u financ šta u Split ianciranja agement, m lecture	su, Split, , Split, 1 2012, F s and	2012. 1999. RRiF	copies in the library10510	other	media
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme	Nikolić, N; Pečarić, I Ekonomski fakultet S Nikolić, N; Počela ja Vidučić, Lj.: Financis Notes and presentat exercises	M.: Uvoo Sveučiliš vnog fin sjki man tions fro onal Co	d u financ šta u Split anciranja agement, m lecture	s and inance,	2012. 1999. RRiF 2008.,	copies in the library 10 5 10 10 Thomson Sout	other	media
Required literature (available in the library and via other media) Optional literature (at the time of submission of study	Nikolić, N; Pečarić, I Ekonomski fakultet S Nikolić, N; Počela ja Vidučić, Lj.: Financis Notes and presentat exercises Madura, J.: Internati	M.: Uvoo Sveučiliš vnog fin sjki man tions fro onal Co v, M.: Mo	d u financ šta u Split aanciranja agement, m lecture prporate Fi onetarna	iu, Split, , Split, 1 2012, F s and inance, politika,	2012. 1999. RRiF 2008., RRiF,	copies in         the library         10         5         10         5         10         5         10         2009.	other	media
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme	Nikolić, N; Pečarić, I Ekonomski fakultet S Nikolić, N; Počela ja Vidučić, Lj.: Financis Notes and presentat exercises Madura, J.: Internati Lovrinović, I., Ivanov	M.: Uvoo Sveučiliš vnog fin sjki man tions fro onal Co v, M.: Mo	d u financ šta u Split nanciranja agement, m lecture prporate Fi onetarna udents per	iu, Split, , Split, 1 2012, F s and inance, politika,	2012. 1999. RRiF 2008., RRiF,	copies in         the library         10         5         10         5         10         5         10         2009.	other	media
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal)	Nikolić, N; Pečarić, I Ekonomski fakultet S Nikolić, N; Počela ja Vidučić, Lj.: Financis Notes and presentat exercises Madura, J.: Internati Lovrinović, I., Ivanov	M.: Uvoo Sveučiliš vnog fin sjki man tions fro onal Co v, M.: Mo ce and stu g (Vice-I	d u financ šta u Split ianciranja agement, m lecture: prporate Fi onetarna udents per Dean)	inance, formance	2012. 1999. RRiF 2008., RRiF, 2 e (teach	copies in the library 10 5 10 10 Thomson South 2009.	other	media
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the acquisition of	Nikolić, N; Pečarić, I Ekonomski fakultet S Nikolić, N; Počela ja Vidučić, Lj.: Financis Notes and presentat exercises Madura, J.: Internati Lovrinović, I., Ivanov • Monitoring attendanc • Monitoring of teachin	M.: Uvoo Sveučiliš vnog fin sjki man tions fro onal Co v, M.: Mo se and str g (Vice-I uccess ir e quality	d u financ šta u Split ianciranja agement, m lecture: orporate Fi onetarna udents per Dean) n all subject of teacher	s and inance, politika, formance	2012. 1999. RRiF 2008., RRiF, 2 e (teach	Copies in the library 10 5 10 10 Thomson South 2009. er)	other h-Wester	n
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure	Nikolić, N; Pečarić, I Ekonomski fakultet S Nikolić, N; Počela ja Vidučić, Lj.: Financis Notes and presentat exercises Madura, J.: Internati Lovrinović, I., Ivanov • Monitoring attendanc • Monitoring of teachin • Analysis of student s • Student survey on the	M.: Uvor Sveučiliš vnog fin sjki man tions fro onal Co v, M.: Mo se and str g (Vice-I uccess ir e quality ality Impr y the sub g the exa	d u financ šta u Split ianciranja agement, m lecture: prorate Final onetarna udents per Dean) n all subject of teacher rovement) oject teacher m contents	inance, politika, formance s and inance, politika, formance s and tea	2012. 1999. RRiF 2008., RRiF, 2 e (teach dy (Vice aching fo course o	copies in the library         10         5         10         5         10         5         10         5         10         5         10         5         10         5         10         5         10         5         10         5         10         5         10         5         10         5         10         5         10         5         10         5         10         5 <t< td=""><td>f study (Ur</td><td>n</td></t<>	f study (Ur	n

proposer wishes to	
add)	

NAME OF THE COURSE	FINAL THESIS									
Code	FEXX01		Year of st		3					
Course teacher	Credits (ECTS) 12									
Associate teachers			Type of ir (number o		L	L S AE LE				
Status of the course	Obligatory Percentage of application of e-learning									
	C	DURSE	DESCRI	PTION						
Course objectives	<ul> <li>consolidatin complex eng</li> <li>being indep</li> </ul>	<ul> <li>Fraining students for:</li> <li>consolidating theoretical knowledge and practical skills in solving highly complex engineering problems</li> <li>being independent in solving problems under the given conditions</li> <li>writing and presenting the project results</li> </ul>								
Course enrolment requirements and entry competences required for the course	Acquired 120 ECTS	credits								
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul> <li>Students will be able to:</li> <li>consolidate theoretical knowledge and practical skills in solving problems</li> <li>use literature, databases and other sources of information</li> <li>select appropriate methods and procedures for solving practical problems</li> <li>apply technical knowledge and skills to effectively solve engineering problems</li> <li>give public presentation, to prepare written report and present project results</li> </ul>									
Course content broken down in detail by weekly class schedule (syllabus)	Final thesis is the in and instructions give	depende	ent work o	of the student						
Format of instruction	<ul> <li>lectures</li> <li>seminars and wo</li> <li>exercises</li> <li>on line in entirety</li> <li>partial e-learning</li> <li>field work</li> </ul>		i	<ul> <li>□ independe</li> <li>□ multimedia</li> <li>□ laboratory</li> <li>⊠ work with</li> <li>□ (otherwork)</li> </ul>	a	nment	S			
Student responsibilities	Independent work									
Screening student work (name the	Class attendance		Researc	h	Practic	al trair	ning			
proportion of ECTS credits for each	Experimental work		Report		Individ	ual wo	rk		12	
activity so that the total number of	Essay		Seminar essay			(Other	-)			
ECTS credits is equal to the ECTS	Tests		Oral exa	m		(Other	-)			
value of the course)	Written exam		Project			(Other	<sup>-</sup> )			
Grading and evaluating student work in class and at the final exam	Final thesis is evaluated by the supervisor based on the student's achievements during the process of the final thesis production and on written and oral presentation.									
Required literature		Title	9		Num	ber of	Ava	ailabili	ty via	

(available in the library and via other		copies in the library	other media
media)	Literature depends on the given problem. The literature list may be given by the supervisor or the student should find the appropriate literature to help solve the problem.		
Optional literature (at the time of submission of study programme proposal)			
Quality assurance methods that ensure the acquisition of exit competences	<ul> <li>Self-evaluation of teachers</li> <li>Student survey of the whole study programme</li> </ul>		
Other (as the proposer wishes to add)			

NAME OF THE COURSE	FLUID MECHANICS						
Code	FESE07	Year of study	3.				
Course teacher	Branko Klarin, Ph. D., Full Professor	Credits (ECTS)	6				
Associate teachers	Maja Zore, Teaching assistant	Type of instruction (number of hours)	S 0	AE 30	LE 15	DE 0	
Status of the course	Obligatory	Percentage of application of e-learning	0				
	COURSE	EDESCRIPTION	-				
Course objectives	- recognition of problem	blication of basic principles nature and selection of pr nods and solving simple p	oper rel	ations			
Course enrolment requirements and entry competences required for the course	Physics						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul> <li>fluids,</li> <li>recognize and solve fo</li> <li>recognize conditions at problems,</li> <li>apply Euler equations and continuity,</li> <li>explain boundary layer</li> <li>calculate flow losses in</li> </ul>	n pipes, aerodynamic forces on boo	lative st quation,	illnes	s and	solve	
	Course content				L or S hours	-	\E ours
	Introduction to fluid mechan Euler coordinat system.	nics. Fluid properties. Lag	range a		3		2
	Apecific pressure in different directions. Euler equilibrium conditions. Fluid in gravity field.						2
	stability.	surfaces. Basics of floating and			3		2
Course content	Relative stillness – translat				3		2
broken down in detail by weekly	Dynamics of ideal fluid – E field. The equation of conti 's tube.				3		2
class schedule (syllabus)	Leakage from container an occurrence of cavitation.	d underwater leakage. Th	е		3		2
	The momentum equation.				3		2
	Real fluid dynamics - flow of fluid - the role of the Navier		s in the		3		2
	Laminar and turbulent flow		y layer.		3		2
	Opposing body - friction an airfoils. Wings and flow cha	d resistance form. Hydro-	-		3		2
	The tube flow resistance and Moody's diagram. Liqu	nd losses. Nikuradze's exp	perimen	ts	3		2

	diameters and under	r pressu	re.						
	The concept of dime	nsional	analysis				3		2
	Criteria similarity: Ne Mach's number.			•					
		Introduction to the working principle and elements of 3 turbomachinery. The occurrence of water hammer.							2
	List of laboratory or design exercises								E or DE
	Properties of fluids								hours 2
	Leaking								2
	Calculation of hydroc	lynamic	boundar	y layer					2
	Air flow measuremer								2
	Demonstration (field)	work) - v	vind pow	er, hydro	pelectric	c power pla	nts		7
	☑ lectures			□ inde	nender	it assignme	nte		
	$\Box$ seminars and wo	rkshops		⊠ mult		it assignme	113		
Format of instruction	⊠ exercises			⊠ labo					
	□ on line in entirety				•	entor			
	□ partial e-learning				(othe				
	⊠ field work		_		•	•			
Student responsibilities	The presence on lect Performed all require				least 7	0 % of the t	mes so	chedu	iled.
Screening student work (name the	Class attendance	3,5	Researc	ch		Practical training			
proportion of ECTS credits for each	Experimental work		Report			Individual work			
activity so that the total number of	Essay		Semina essay	r		Laboratory exercises			1,5
ECTS credits is	Tests	1	Oral exa	am		Preparation for laboratory exercises			
equal to the ECTS value of the course)	Written exam		Project			(Other)			
Grading and evaluating student work in class and at the final exam	lecturing and the ser of three numerical students that did n carried out as wri requirement for pas theoretical grade. Gr	There are two midterms and final exams. The first midterm exam is after 7 weeks of lecturing and the second one is after the next 6 weeks. Each midterm test consist of three numerical problems and five theoretical questions. In the final exam students that did not pass the midterm exams take part. The final exams are carried out as written tests, both numerical and theoretical questions. The requirement for passing grade is the positive grade of numerical (obligatory) and theoretical grade. Grade (in percentage) is formed according to the formula: Grade(%) = 0,5 (M1 + M2) where in percentage:						consists exams ms are is. The	
						Number		ailab	ility via
		Title	•			copies i the libra	n   o		media
Required literature	B. Klarin: Mehanika FESB	fluida, a	utorizirar	na preda	vanja,			e-leai por	-
(available in the library and via other	Lj. Pilić-Rabadan, M 1992.	ehanika	fluida, F	ESB Spl	lit,	10			
media)		M. Pečornik, Tehnička mehanika fluida, Sveučilište							

Optional literature (at the time of	- Kuethe, A.M.; Chow, C-Y.: Foundations of Aerodynamics, Wiley, 1986.
submission of study programme proposal)	- Fox, R.W.; McDonald, A.T. Introducing to Fluid Mechanics, Wiley, 1994.
Quality assurance methods that ensure the acquisition of exit competences	<ul> <li>Evaluation of results in accordance with the above learning outcomes</li> <li>Feedback from students via surveys</li> <li>Self-evaluation of teachers</li> <li>Institutional and non-institutional evaluations</li> </ul>
Other (as the proposer wishes to add)	- Feedback from graduate students about the course relevance

NAME OF THE COURSE	FUNDAMENTALS OF MI	CROECONOMICS							
Code	FEEE05	Year of study	2						
Course teacher	Ivan Pavić, Full Professor Maja Pervan, Full Professor	Credits (ECTS)	6						
Associate teachers	Josipa Višić, Assistant Professor	Type of instruction (number of hours)	S	AE	LE	DE			
Status of the course	Obligatory Percentage of application of e-learning 5%								
	COURSE	E DESCRIPTION							
Course objectives	Acquiring knowledge and s of supply and demand, ela costs, as well as making de structures.	sticity assessment, analys	is of fir	m's pr	oductio	on and			
Course enrolment requirements and entry competences required for the course	-								
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	Students will be able to: 1. Identify the determinants 2. Analyze the way in which 3. Analyze the influence of 4. Ensure adequate pricing 5. Examine the influence of marginal productivity 6. Identify a combination of production 7. Calculate the break-even 8. Classify criteria for distin 9. Define quantities and pri- structures	h market mechanisms affe different types of elasticity policy based on the price f changes in production fa f production inputs which r n point in changing market nguishing between market	/ on de elastic ctors o ninimiz t condit structu	mand tity n the t es the tions res	for pro	ducts verage	e and		
	Course content				_ or S hours		\E ours		
	<b>Demand.</b> The concept and market demand. Determina		dual ar		2		2		
	Supply. The concept and the law of supply. Changes in supply and quantity supplied. Determinants of supply.         2						2		
Course content broken down in	Market Equilibrium. Changes in supply and demand. Market           Equilibrium. The equilibrium in real life. Market equilibrium and 2         2           taxes.         2						2		
detail by weekly class schedule	Elasticity. The concept of elasticity. Price elasticity of demand. Price elasticity of demand and total revenue.22						2		
(syllabus)	The income elasticity of de demand. Price elasticity of	supply.			2		2		
	Production. Basic concepts of production. Production in the short term. Total, average and marginal productivity. Increasing, constant and diminishing marginal returns. The stages of production functions.22								
	Production in the long run. production area.	The production isoquant.	Rationa	al	2		2		

	The optimal combina			ansion pat	h. The	2	2
	production of multiple Costs. The basic co					2	2
	Costs in the short ru short run. The cost of between production	n. Total urve in	, average ar the short ru	n. Relation		2	2
	Costs in the long run run. Economies and analysis.	n. Avera	ge and mar	ginal cost		2	2
	Perfect competition competition. The equ long run.		2	2			
	<b>Monopoly.</b> Concept discrimination. The e and long run.		2	2			
	And long run. Monopolistic competition. The equilibrium of the company in the short and long run. Measurement of monopoly power. Comparison of monopolistic competition with other market structures.					2	2
		<b>Oligopoly.</b> Behavior of companies in oligopoly. Models of price stability in the oligopolistic markets. Models with					2
	List of laboratory or o	design e	exercises				LE or DE hours
Format of instruction	<ul> <li>☑ lectures</li> <li>□ seminars and wore</li> <li>☑ exercises</li> <li>□ on line in entirety</li> <li>□ partial e-learning</li> <li>□ field work</li> </ul>	rkshops		multimed   laborator   work with	у	nts	
Student responsibilities	A student must atten exam.	nd min. t	50% of lectu	ires and e	xercises in ord	ler to acce	ess final
Screening student work (name the	Class attendance		Research		Practical tra	aining	
proportion of ECTS credits for each	Experimental work		Report		(Oth	er)	
activity so that the total number of	Essay		Seminar essay		(Oth	er)	
ECTS credits is equal to the ECTS	Tests 5* Oral exam (Othe					,	
value of the course)	Written exam	5*	Project		(Oth	·	
Grading and evaluating student work in class and at the final exam	exams, on each coll studies as well as t derived as an arith colloquium. Students who do no	*During the semester there will be two colloquiums. To obtain a final grade withou exams, on each colloquium a student must solve at least 55% of the tasks / case studies as well as two out of the three theoretical questions. The final grade i derived as an arithmetic mean of the score achieved in the first and second					

	accurately and completely solve 55% of the tasks / case studies. Positive mark achieved in the first part of the exam also represents a condition of access to the second (theoretical) part of exam, where the student has to solve minimally two out of the three theoretical questions						
	Title	Number of copies in the library	Availability via other media				
Required literature	Pavić, I.,"Mikroekonomija - teorija i praksa",						
(available in the	Ekonomski fakultet Split, 2015.						
library and via other	Pervan, M., "Mikroekonomija - zbirka zadataka",						
media)	treće izdanje, Ekonomski fakultet Split, 2013.						
Optional literature	-						
(at the time of							
submission of study							
programme proposal)							
Quality assurance	-						
methods that ensure							
the acquisition of							
exit competences							
Other (as the							
proposer wishes to							
add)							

NAME OF THE COURSE	INDUSTRIAL PROPERTY									
Code	FETE12	Year of study	3							
Course teacher	Jozo Čizmić, Ph.D., Full Professor	Credits (ECTS)	4							
		Type of instruction	L	S	AE	LE	DE			
Associate teachers		(number of hours)	45	15	0	0	0			
Status of the course	Elective	Percentage of application of e-learning								
COURSE DESCRIPTION										
Course objectives	insights into the industrial rights of those who create	Upon completion of lectures, students will have gained theoretical and practical insights into the industrial property, the area of law that deals with protecting the rights of those who create original works. This subject introduces students to the conceptual framework of industrial property law.								
Course enrolment requirements and entry competences required for the course										
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ol> <li>students will identify bas</li> <li>students will analyze t rights</li> <li>students will be able to the operation and reform of</li> <li>students will examine t regulation in Croatia, incl protection, the tort of pass and the equitable doctrine</li> <li>students will analyse t international standards and</li> </ol>	he law applicable to infri identify, use and appraise if industrial property law he theories, policies and p uding the statutory regim sing off, the action for mis of breach of confidence. he interrelationships betw	ngeme e resea principl nes of leading veen th	nt of i arch m es of i paten g and o nese la	ateria ndust t and decep	l releva rial pro trade tive co	ant to operty mark nduct			
	Course content			,iu.	1		S			
					hours		ours			
	Industrial property and Pat	ents			6		2			
	Trademarks				6		2			
	Trade secret				3		1			
	Industrial design				5		1			
Course content	Mask works				2		1			
broken down in	Geographical indication				3		1			
detail by weekly	Licensing and Know-How				3		1			
class schedule	Croatian Industrial property	y law			3		1			
(syllabus)	International convention				3		1			
	Patent and Trademarks Attorney				3		1			
	Judicial protection of industrial properta				3		1			
	The State Intellectual Property Office				2		1			
	Inventive activity and technical improvements						1			
	List of laboratory or design	exercises		1			or DE ours			

	□x lectures							
Format of instruction	Image: X rectares       Image: I				nentor			
Student responsibilities			·					
Screening student work (name the	Class attendance	1,5	Research			Practical traini	ng	
proportion of ECTS credits for each	Experimental work		Report			(Other)		
activity so that the total number of	Essay		Seminar essay		1,0	(Other)		
ECTS credits is	Tests		Oral exan	า	1,5	(Other)		
equal to the ECTS value of the course)	Written exam		Project			(Other)		
Grading and evaluating student work in class and at the final exam	Seminars Oral exam							
Required literature		Title				Number of copies in the library	Availability via other media	
(available in the library and via other media)	Čizmić-Boban intelektualno vlasniš Split, 2016.			-	-		×	
Optional literature (at the time of submission of study programme proposal)	-					•		
Quality assurance methods that ensure the acquisition of exit competences	conducted after lector	opinion of students on the quality of teaching through questionnaire survey conducted after lectures. consultations with students who are attending this course, the worthiness of this subject in their practical work and possible improvements.						
Other (as the proposer wishes to add)								

NAME OF THE COURSE	INTRODUCTION TO INFORMATION SYSTEMS								
Code	FESE06	Year of study	3						
Course teacher	Damir Vučina, Ph. D. Full Professor	Credits (ECTS)	4						
Associate teachers	Igor Pehnec, Ph. D. Teaching assistant Ivo Marinić- Kragić, Teaching assistant Milan Ćurković, Ph. D., Teaching assistant	eaching assistant ro Marinić- Kragić, eaching assistant lilan Ćurković, Ph. D.,				LE 15	DE 0		
Status of the course	Obligatory								
	COURSE	application of e-learning DESCRIPTION							
Course objectives Course enrolment requirements and entry competences required for the course	Capability of applying com Acquiring knowledge and databases, basics of SQ Completed pre-graduate st aided analysis. Competend development in MATLAB	d application skills: HTM L, script languages, acti tudies which include course	IL, bas ive web es equi	ic ter p pag valent	es, IS to Co	S ompute			
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul> <li>After completing the course, students will be able to:</li> <li>Describe information systems, specify architecture and functionality, elements, technologies</li> <li>Develop sets of HTML files for the IS</li> <li>Develop simple client scripts in Vbscript</li> <li>Create simple databases</li> <li>Develop simple SQL queries</li> <li>Build simple dynamic web pages using ASP</li> </ul>								
	Course content				L hours		\E ours		
	Introduction. systems, be processing	usiness processes, infor	mation		2		ui c		
	Information systems IS,	MIS, elements of IS			2				
	Information systems IS, architecture of IS	functional specifications	of IS,		2				
	Infrastructure and devices	for the IS, protocols			2				
Course content	Internet, services, www				2				
broken down in	Development of content for	r the web			2				
detail by weekly class schedule	Basics of HTML				2				
(syllabus)	Basics of programming, ba				2				
	Script languages, Vbscript				2				
	Databases: basic terms an	d elements of design			2				
	First midterm exam				2				
	Databases: basics of SQL, IS and databases								
	Simple active pages, ASP. Basic concepts of web applications								
	Integration of IS elements				2				
	Second midterm exam					·			
	List of laboratory exercises	6					nours		

	Information system	is IS mo	odeling, functi	onal spe	ecifications of	IS	1	
	Develop sets of HTM	Develop sets of HTML files for the IS						
	Scripting and Vbscrip	ot exam	oles				2	
	Databases, modelling	g, norma	alization				2	
	SQL						2	
	Active pages, ASP, a	applicati	ons				2	
	Integration of IS						2	
Format of instruction	<ul> <li>☑ lectures</li> <li>☑ seminars and workshops</li> <li>☑ exercises</li> <li>☑ on line in entirety</li> <li>☑ partial e-learning</li> <li>☑ field work</li> <li>□ independen</li> <li>□ multimedia</li> <li>☑ laboratory</li> <li>□ work with m</li> <li>□ (othermolectrony)</li> </ul>				nentor			
Student responsibilities	The presence on lect Performed all require				70 % of the time	es sched	uled.	
Screening student work (name the	Class attendance	3	Research		Practical traini	ng		
proportion of ECTS credits for each	Experimental work		Report		Individual work	<	1	
activity so that the	Essay		Seminar essay		Laboratory exe	ercises		
total number of ECTS credits is equal to the ECTS	Tests		Oral exam		Preparation fo laboratory exe			
value of the course)	Written exam		Project		(Other)			
	There are two midterms and final exams. The first midterm exam is after 7 weeks of lecturing and the second one is after the next 6 weeks. Each midterm test consists of respective theoretical questions and numerical problems. The final tests consist of overall theoretical questions and numerical problems. In the final exams, students that did not pass the midterm exams take part. The midterm and final exams are carried out as written tests. The requirement for passing grade is the positive assessment of laboratory exercises and 50 % points on each midterm exam or the final exam. Grade (in percentage) is formed according to the formula: Grade(%) = 0,5 (M1 + M2) the activities in percentage: <ul> <li>M1, M2 – test results.</li> </ul>							
Grading and evaluating student work in class and at the final exam	of respective theore of overall theoretic students that did no exams are carried of positive assessmen exam or the final exa the activities in perce	tical que al ques ot pass out as v t of lab am. Gra entage:	estions and nu tions and nu the midterm e vritten tests. T oratory exercis de (in percenta Grade(%) = 0,	merical p merical p exams ta ne requir ses and ge) is for	roblems. The f problems. In the ke part. The m ement for pass 50 % points o med according	inal tests he final hidterm a sing grad n each	consist exams, and final le is the midterm	
evaluating student work in class and at	of respective theore of overall theoretic students that did no exams are carried of positive assessmen exam or the final exa the activities in perce	tical que al ques ot pass out as v t of lab am. Gra entage:	estions and nu tions and nu the midterm e vritten tests. T oratory exercis de (in percenta Grade(%) = 0, s.	merical p merical p exams ta ne requir ses and ge) is for	roblems. The f problems. In the ke part. The m ement for pass 50 % points o med according	inal tests he final nidterm a sing grad n each to the fo	consist exams, and final le is the midterm	
evaluating student work in class and at the final exam	of respective theore of overall theoretic students that did no exams are carried of positive assessmen exam or the final exa the activities in perco • M1, M2 – te D. Vučina, M. Šušnja	tical que al ques ot pass out as v t of lab am. Gra entage: st result <b>Title</b> ar, M. U	estions and nu tions and nu the midterm e vritten tests. T oratory exercis de (in percenta Grade(%) = 0, s.	merical p merical p exams ta ne requir ses and ge) is for	Number of copies in	inal tests he final nidterm a sing grad n each to the fo	s consist exams, and final le is the midterm rmula:	
evaluating student work in class and at the final exam Required literature	of respective theore of overall theoretic students that did no exams are carried of positive assessmen exam or the final exa the activities in perco • M1, M2 – te D. Vučina, M. Šušnja informacijske sustav	tical que al ques ot pass out as v t of lab am. Gra entage: st result <b>Title</b> ar, M. U re', inter	estions and nu tions and nu the midterm e vritten tests. T oratory exercis de (in percenta Grade(%) = 0, s.	merical p merical   exams ta ne requir ses and ge) is for 5 (M1 +	Number of copies in	inal tests he final nidterm a sing grad n each to the fo	s consist exams, and final le is the midterm rmula:	
evaluating student work in class and at the final exam Required literature (available in the library and via other	of respective theore of overall theoretic students that did no exams are carried of positive assessmen exam or the final exa the activities in perco • M1, M2 – te D. Vučina, M. Šušnja informacijske sustav Steven Alter, 'Inform	tical que al ques ot pass out as v t of lab am. Gra entage: st result <b>Title</b> ar, M. U re', inter	estions and nu tions and nu the midterm e vritten tests. T oratory exercis de (in percenta Grade(%) = 0, s.	merical p merical   exams ta ne requir ses and ge) is for 5 (M1 +	Number of copies in	inal tests he final nidterm a sing grad n each to the fo	s consist exams, and final le is the midterm rmula:	
evaluating student work in class and at the final exam Required literature (available in the	of respective theore of overall theoretic students that did no exams are carried of positive assessmen exam or the final exa the activities in perco • M1, M2 – te D. Vučina, M. Šušnja informacijske sustav	tical que al ques ot pass out as v t of lab am. Gra entage: st result <b>Title</b> ar, M. U re', inter	estions and nu tions and nu the midterm e vritten tests. T oratory exercis de (in percenta Grade(%) = 0, s.	merical p merical   exams ta ne requir ses and ge) is for 5 (M1 +	Number of copies in	inal tests he final nidterm a sing grad n each to the fo	s consist exams, and final le is the midterm rmula:	
evaluating student work in class and at the final exam Required literature (available in the library and via other	of respective theore of overall theoretic students that did no exams are carried of positive assessmen exam or the final exa the activities in perco • M1, M2 – te D. Vučina, M. Šušnja informacijske sustav Steven Alter, 'Inform E-Business Ch J. A. O'Brien, 'Ma	tical que al ques ot pass out as v t of lab am. Gra entage: st result <b>Title</b> ar, M. U re', intern lation Sy	estions and nu the midterm e vritten tests. To oratory exercise de (in percenta Grade(%) = 0, s. vodić 'Uvod u nal material vstems: Founda	merical p merical p exams ta ne requir ses and ge) is for 5 (M1 + 1 (M1 + 1)	Number of copies in	inal tests he final nidterm a sing grad n each to the fo	s consist exams, and final le is the midterm rmula:	
evaluating student work in class and at the final exam Required literature (available in the library and via other	of respective theore of overall theoretic students that did no exams are carried of positive assessmen exam or the final exa the activities in perco • M1, M2 – te D. Vučina, M. Šušnja informacijske sustav Steven Alter, 'Inform E-Business Ch J. A. O'Brien, 'Ma Systems', Irwin Inc.	tical que al ques ot pass out as v t of lab am. Gra entage: st result <b>Title</b> ar, M. U re', intern ation Sy anagem	estions and nu the midterm e vritten tests. To oratory exercis de (in percenta Grade(%) = 0, s. vodić 'Uvod u nal material vstems: Founda ent Information	merical p merical   exams ta ne requir ses and ge) is for 5 (M1 + I	Number of copies in	inal tests he final nidterm a sing grad n each to the fo	s consist exams, and final le is the midterm rmula:	
evaluating student work in class and at the final exam Required literature (available in the library and via other	of respective theore of overall theoretic students that did no exams are carried of positive assessmen exam or the final exa the activities in perco • M1, M2 – te D. Vučina, M. Šušnja informacijske sustav Steven Alter, 'Inform E-Business Ch J. A. O'Brien, 'Ma	tical que al ques ot pass out as v t of lab am. Gra entage: st result <b>Title</b> ar, M. U re', intern ation Sy anagem	estions and nu the midterm e vritten tests. To oratory exercis de (in percenta Grade(%) = 0, s. vodić 'Uvod u nal material vstems: Founda ent Information	merical p merical   exams ta ne requir ses and ge) is for 5 (M1 + I	Number of copies in	inal tests he final nidterm a sing grad n each to the fo	s consist exams, and final le is the midterm rmula:	
evaluating student work in class and at the final exam Required literature (available in the library and via other	of respective theore of overall theoretic students that did no exams are carried of positive assessmen exam or the final exa the activities in perco • M1, M2 – te D. Vučina, M. Šušnja informacijske sustav Steven Alter, 'Inform E-Business Ch J. A. O'Brien, 'Ma Systems', Irwin Inc. Online skripts: w3sc 'ASP', 'SQL' • NCSA, 'A Beginn	tical que al ques ot pass out as v t of lab am. Gra entage: st result <b>Title</b> ar, M. U re', intern lation Sy anagem hools - '	estions and nu the midterm e vritten tests. To oratory exercis de (in percenta Grade(%) = 0, s. vodić 'Uvod u nal material /stems: Founda ent Information HTML', 'VBScr de to HTML', il	merical p merical   exams ta ne requir ses and ge) is for 5 (M1 + I ation of	Number of copies in	inal tests he final nidterm a sing grad n each to the fo	s consist exams, and final le is the midterm rmula:	
evaluating student work in class and at the final exam Required literature (available in the library and via other media) Optional literature (at the time of	of respective theore of overall theoretic students that did no exams are carried of positive assessmen exam or the final exa the activities in perco • M1, M2 – te M1, M2 – te M1, M2 – te M1, M2 – te Ch J. A. O'Brien, 'Ma Systems', Irwin Inc. Online skripts: w3sc 'ASP', 'SQL' • NCSA, 'A Beginn • HTML - An Intera	tical que al ques ot pass out as v t of lab am. Gra entage: st result <b>Title</b> ar, M. U re', intern ation Sy anagem hools - ' er's Gui active Tu	estions and nu the midterm e vritten tests. To oratory exercis de (in percenta Grade(%) = 0, s. vodić 'Uvod u nal material /stems: Founda ent Information HTML', 'VBScr de to HTML', il	merical p merical   exams ta ne requir ses and ge) is for 5 (M1 + I ation of	Number of copies in	inal tests he final nidterm a sing grad n each to the fo	s consist exams, and final le is the midterm rmula:	
evaluating student work in class and at the final exam Required literature (available in the library and via other media) Optional literature (at the time of submission of study	of respective theore of overall theoretic students that did no exams are carried of positive assessmen exam or the final exa the activities in perco • M1, M2 – te M1, M2 – te M2, M2 – te	tical que al ques ot pass out as v t of lab am. Gra entage: st result <b>Title</b> ar, M. U re', intern ation Sy anagem hools - ' er's Gui active Tu	estions and nu the midterm e vritten tests. To oratory exercis de (in percenta Grade(%) = 0, s. vodić 'Uvod u nal material /stems: Founda ent Information HTML', 'VBScr de to HTML', il	merical p merical   exams ta ne requir ses and ge) is for 5 (M1 + I ation of	Number of copies in	inal tests he final nidterm a sing grad n each to the fo	s consist exams, and final le is the midterm rmula:	
evaluating student work in class and at the final exam Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme	of respective theore of overall theoretic students that did no exams are carried of positive assessmen exam or the final exa the activities in perco • M1, M2 – te M1, M2 – te M2, M2, M2, M2, M2, M2, M2, M2, M2, M2,	tical que al ques ot pass out as v t of lab am. Gra entage: st result <b>Title</b> ar, M. U re', intern ation Sy anagem hools - ' er's Gui active Tu urial	estions and nu the midterm e vritten tests. To oratory exercis de (in percenta Grade(%) = 0, s. vodić 'Uvod u nal material vstems: Founda ent Information HTML', 'VBScr de to HTML', il utorial for Begin	merical p merical   exams ta ne requir ses and ge) is for 5 (M1 + I ation of	Number of copies in	inal tests he final nidterm a sing grad n each to the fo	s consist exams, and final le is the midterm rmula:	
evaluating student work in class and at the final exam Required literature (available in the library and via other media) Optional literature (at the time of submission of study	of respective theore of overall theoretic students that did no exams are carried of positive assessmen exam or the final exa the activities in perco • M1, M2 – te M1, M2 – te M2, M2 – te	tical que al ques ot pass out as v t of lab am. Gra entage: st result <b>Title</b> ar, M. U re', internation Sy anagem hools - ' er's Gui active Tu urial ASP.ne	estions and nu the midterm e vritten tests. To oratory exercis de (in percenta Grade(%) = 0, s. vodić 'Uvod u nal material vstems: Founda ent Information HTML', 'VBScr de to HTML', il utorial for Begin	merical p merical   exams ta ne requir ses and ge) is for 5 (M1 + I ation of	Number of copies in the library	inal tests he final hidterm a sing grad n each to the fo	s consist exams, and final le is the midterm rmula:	

methods that ensure the acquisition of exit competences	<ul> <li>Feedback from students via surveys</li> <li>Self-evaluation of teachers</li> <li>Institutional and non-institutional evaluations</li> </ul>
Other (as the proposer wishes to add)	

NAME OF THE COURSE	INTRODUCTIO	ON TO PL	IBLIC SPEA	KING						
Code	FEOC04		Year of s	tudy	3					
Course teacher	Mirjana M. Kova Ph.D., Assistant		or Credits (	ECTS)	4					
Associate teachers				nstruction of hours)	L 0	S 30	E 0	F 0		
Status of the course	Elective		Percenta application	ge of on of e-learning	-					
	COURSE DESCRIPTION									
Course objectives	<ul><li>as well as the develop the presentation</li></ul>	understand the basic concepts related to verbal and nonverbal communication as well as the factors that influence these concepts; develop the skills of presentation planning, presentation structure, and presentation performance in the Croatian language; organize speech information in a chronological order.								
Course enrolment requirements and entry competences required for the course	None.									
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ol> <li>organiz</li> <li>use difference</li> <li>give a presentation</li> </ol>	<ol> <li>use different types of public speaking;</li> <li>give a persuasive presentation of ideas in front of an audience;</li> </ol>								
Course content broken down in detail by weekly class schedule (syllabus)	Course content Definitions of co Cross-cultural c Verbal and nom Questioning as Active listening Speech prepara Standard langua Presentation sk Rhetorical figure Public speaking Interpretative re Taking notes Speech disfluer Pronunciation s	ommunic verbal co a commu and Barri ation age and r ills es of spee fear eading	ation mmunication inication skill ers to active nodal expres	listening	of comm		n;	L/S 0/2 0/2 0/2 0/2 0/2 0/2 0/2 0/2 0/2 0/2		
Format of instruction	Pronunciation speech exercises         Iectures         seminars and workshops         exercises         on line in entirety         partial e-learning         field work				1					
Student responsibilities	Active participation in all activities: lectures, consultations, searching the literature, individual work.						ture,			
Screening student work (name the	Class attendance	1,6	Research		Practica	l training				

proportion of ECTS credits for each	Experimental work		Report		Individual work	< 1,6			
activity so that the total number of	Essay		Seminar essay	0,5	(Other)				
ECTS credits is equal to the ECTS	Midterm exam	0,2	Oral exam		(Other)				
value of the course)	Written exam	0,1	Project		(Other)				
Grading and evaluating student work in class and at the final exam	<ul> <li>assessmer written and</li> <li>assessmer written and</li> <li>There are two r</li> <li>is after 7 weeks</li> <li>lowest passing the midterm ex.</li> <li>a percentage o</li> <li>ECTS grading s</li> <li>University of Sp At the end of the according to the</li> <li>50% - 61% - su 62% - 74% - go</li> <li>75% - 87% - ve</li> <li>88% - 100% - e</li> <li>Students who fe</li> <li>autumn final ex</li> </ul>	The final grade is determined as the average of: assessment of oral presentation and peer assessment of oral presentation;							
Required literature (available in the			Title		Number of copies in the library	Availability via other media			
library and via other media)	lvo Škarić. Zagreb: Šk	•	suvremenog g ga.2000.	ovorništva,					
Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the acquisition of exit competences	<ul> <li>Evaluation of results in accordance with the above learning outcomes</li> <li>Feedback from students via surveys</li> <li>Self-evaluation of teachers</li> <li>Institutional and non-institutional evaluations</li> </ul>								
Other (as the proposer wishes to add)									

NAME OF THE COURSE	MACHINE ELEMENTS									
Code	FESE03	Year of study	3							
Course teacher	Srdjan Podrug, Ph.D., Associate Professor	Credits (ECTS)	6							
Associate teachers	Vjekoslav Tvrdić, Teaching assistant	Type of instruction (number of hours)	L 45	S 0	AE 0	LE 0	DE 30			
Status of the course	Obligatory Percentage of application of e-learning 0									
COURSE DESCRIPTION										
Course objectives Training students for: - understanding of machine elements operation principles and design basis.										
Course enrolment requirements and entry competences required for the course	Engineering graphics 1 and	Engineering graphics 1 and Engineering graphics 2								
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul> <li>Evaluate and apply the</li> <li>Select the criteria for s</li> <li>Select machine element</li> </ul>	<ul> <li>Identify the loads imposed on the machine elements.</li> <li>Evaluate and apply the necessary safety factor.</li> <li>Select the criteria for sizing and design of machine elements.</li> <li>Select machine elements based on the criteria.</li> <li>Compare fasteners, springs and shafts.</li> </ul>								
Course content broken down in detail by weekly class schedule (syllabus)	Course content									
(),,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Conception and classification of machine elements. Load, stress and strain. Safety factor and allowable stress. Static strength.						3			
	Fatigue strength. S-N (Wo		-	agram.			3			
	Welded joints: conception, procedures, types, labeling, quality, design, calculation						3			
	Threaded fasteners: conception and classification, Standard thread forms, materials. Design of the threaded fasteners. Forces and torque acting in bolted joints.						3			
Course content	Strength calculation of the threaded fasteners. Pin bolts and dowel pins. Spline shaft connections. Cylindrical and tapered shaft connections.						3			
broken down in	Springs: classification, stiff	ness, work and calculation	۱.				3			
detail by weekly class schedule (syllabus)	Shafts: conception, materia calculation.	als, design, dimensioning,	streng	th			3			
(0)	Bearings. The theory of hy bearings. Design and calcubearings. Thrust slider bea	ulation of journal slider bea			als for	,	3			
	Roller bearings. Types and labels. Dynamic and static load rating. Couplings and clutches. Classification. Rigid couplings. Flexible couplings. Friction clutches.						3			
	Power transmissions and mechanical drives. Classification. Features and classification of gear drives.						3			
	Main rule of toothing. Geor	metry of cylindrical gears.					3			

	Gear loadings. Pittin	g load c	apacity.	Tooth ro	oot load	capacity.		3
	Bevel gears. Worm	gear driv	ves. Belt f	transmi	ssions.	Chain		3
	transmissions.							
	List of laboratory or Design of the tapered			n and o	f the we	Ided joint		DE hours 13
	Design of the shaft							13
	⊠ lectures							
	□ seminars and workshops □ independent assignments □ multimedia							
	⊠ exercises							
Format of instruction	□ on line in entirety							
	□ partial e-learning							
	☐ field work				(Oure	<i>,</i>		
Student	Course attendance a	and activ	vity (lectu	res, exe	ercises)	, machine elem	ents de	esign,
responsibilities	studying.		1					
Screening student work (name the	Class attendance	3	Researc	h		Practical traini	ng	
proportion of ECTS credits for each	Experimental work		Report			Individual work	ĸ	3
activity so that the total number of	Essay		Seminar essay			(Other)		
ECTS credits is equal to the ECTS	Tests		Oral exa	ım		(Other)		
value of the course)	Written exam		Project			(Other)		
Grading and evaluating student work in class and at the final exam	after 7 weeks of class exams students that Grade (%) = 0,3K + K - rating from desig M1, M2 - points of fil consist of theoretica The requirement for exercises K >= 45% >= 45%. The final grade is de Percentage - Rating 50% to 61% - Suffici 62% to 74% - Good 75% to 87% - Very g 88% 100% - Excelle	The final grade is determined as follows:						
						Number of	Availa	ability via
		Title	•			copies in		r media
						the library	othe	media
Required literature (available in the	Podrug, S.: Machine (in Croatian)	Elemer	nts – cour	rse mat	erials			earning ortal
library and via other	Jelaska, D., Podrug,	S: Des	ign of the	Tapere	ed	1	مادم	earning
media)	Press Connection ar (Directions), FESB,							ortal
	Jelaska, D., Piršić, T				gn		e-le	earning
	(Directions), FESB,				-		р	ortal
Optional literature (at the time of submission of study programme	<ul> <li>Jelaska, D: Machine Elements, I part, University of Split, 2007. (in Croatian)</li> <li>Jelaska, D: Gears and Gear Drives, University of Split, 2011. (in Croatian)</li> <li>Decker, K.H.: Machine Elements, Tehnička knjiga, Zagreb, 2006. (in Croatian)</li> </ul>							

proposal)	
Quality assurance methods that ensure the acquisition of exit competences	<ul> <li>Evaluation of results in accordance with the above learning outcomes</li> <li>Feedback from students via surveys</li> <li>Self-evaluation of teachers</li> <li>Institutional and non-institutional evaluations</li> </ul>
Other (as the proposer wishes to add)	

NAME OF THE COURSE	MACROECONOMICS								
Code	FEEE04	Year of study	2						
Course teacher	Petar Filipić, Ph.D., Full Professor	Credits (ECTS)	6						
	Lena Malešević Perović, Ph.D., Associate Professor,	Type of instruction	L	S	AE	LE	DE		
Associate teachers	Bruno Ćorić, Ph.D., Assistant Professor	30	0	30	0	0			
Status of the course	obligatory								
	COURSE DE	SCRIPTION	-						
Course objectives	To enable students to use bas model), and apply them in the a GDP and prices, as well as exchange rates.	analysis of the impact	of a ce	rtain e	conor	nic poli	icy on		
Course enrolment requirements and entry competences required for the course	~								
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ol> <li>To identify key elements of the System of national accounts</li> <li>To analyse direct production interrelationships, import dependence and the impact of final consumption on GDP within input-output model</li> <li>To calculate the impact of a change in each of the aggregate demand components on GDP and prices in the short run using AS-AD model</li> <li>To identify key theories of consumption and investment</li> <li>To identify causes, costs and consequences of inflation and unemployment.</li> </ol>								
	Course content						ours		
	1. Introduction to macroeconomics: What do macroeconomists study?								
	<ol> <li>Macroeconomic statistics: System of national accounts: The income account</li> </ol>								
	3. System of national account		2						
	4. System of national accounts: Input-output tables						2		
Course content broken down in	<ol> <li>Measuring economic activity: GDP, price indices, unemployment and trade balance</li> </ol>						2		
detail by weekly	6. Determinants of the supply of goods and services								
class schedule (syllabus)	7. Determinants of the deman	d of goods and service	es			2			
	8. Goods market equilibrium:	AS-AD model				2			
	9. Consumption theories: Keynes, Fisher, Modigliani, Friedman.						2		
	10.Introduction to fiscal policy: government expenditures and revenues; budget multiplier						2		
	11.Investment: types, determinants, motives, theories								
	12.Inflation: types, causes and	l costs				2			

	12 Unomploy	of upomploymont	2						
	13.0nempioyn	ient. type	s and causes.	Natural fate (	of unemployment.	2			
	14.Exchange r	ates: type	es. Croatian ku	una exchange	rate.				
	15.Introduction	n to grow	th theories			2			
	Course content					E hours			
	1. Introduction	n to this c	ourse: student	obligations, li	terature, exams.	2			
	2. Economic r	nodels in	general. Intro	duction to inpu	ut-output model.	2			
	3. Structure of	f the inpu	t-output mode	l.		2			
	coefficient,	<ol> <li>An analysis of direct production interrelationships, technical coefficient, matrix multiplier, the impact of final consumption on production. Exercises.</li> </ol>							
	<ul> <li>5. An analysis of the impact of certain components of final consumption on GDP within input-output model. An analysis of import dependence. Exercises.</li> <li>6. An analysis of the impact of certain components of final consumption on production, GDP and imports within input-output model. Exercises.</li> </ul>								
	7. Four main g	goals of e	conomic polic rade balance.	y: an analysis	of GDP, inflation,	2			
				sis: formalisat	tion of the AS-AD	2			
	9. Consumption		es: implications t and long run		propensity to	2			
	10.An analysis	of the m	ain types of go	overnment exp	penditures and	2			
	11.Investment	: volatility	mpact on the , investment th		ods to choose	2			
			s, benefits. Ph	illips curve in t	the short and long	2			
	run. 13.Unemployn to reduce u			rictional and c	yclical), measures	2			
	14.An analysis examples.			change rates	– real life	2			
	15.Key factors	of long-r	un growth.			2			
Format of instruction	x lectures       independent assignments         seminars and workshops       multimedia         x exercises       laboratory         on line in entirety       work with mentor         field work       (other)								
Student responsibilities	Students are ob being able to ta	-		of 15 lectures.	This is the prerequi	site for			
Screening student	Class		Research		Practical training				
work (name the proportion of ECTS credits for each	attendance Experimental		Report		(Other)				
	work			1					
activity so that the total number of	Essay		Seminar essay		(Other)				
---	---	--	---------------------------------------	------------------------------	---------	--	--	--	--
ECTS credits is equal to the ECTS	Tests	2*	Oral exam	2	(Other)				
value of the course)	Written exam	2*	Project		(Other)				
Grading and evaluating student work in class and at the final exam	organized durir condition that the exam. After pas <b>Grades (1-5):</b> pass (2) 50–64 good (3) 65-74 very good (4) 7	ss (2) 50–64% od (3) 65-74% ry good (4) 75-89% cellent (5) 90-100%.							
			Number of copies in the library	Availability via other media					
	Blanchard, O. ( Jersey, Prentic		2						
Required literature (available in the library and via other	Mankiw, G. (20 Worth Publishe	,	4						
media)									
Optional literature (at the time of submission of study programme proposal)									
Quality assurance methods that ensure the									
acquisition of exit competences									
Other (as the proposer wishes to add)									

NAME OF THE COURSE	MANAGEMENT	MANAGEMENT							
Code	FEEE12	Year of study	3						
Course teacher	Nikša Alfirević, Ph.D., Full Professor	Credits (ECTS)	5						
	Željko Mateljak, Ph. D,		L	S	AE	LE	DE		
Associate teachers	Teaching assistant Anita Talaja, Ph. D.,	Type of instruction (number of hours)							
	Teaching assistant		30	0	30	0	0		
Status of the course	Obligatory	Percentage of application of e-learning	0%						
	COURSE	E DESCRIPTION							
Course objectives	After completing this course and functions of manageme and control). None								
requirements and entry competences required for the course									
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	Specific learning outcomest 1. Interpret the concepts of skills, external and internal organization and its environ 2. Apply managerial ethics 3. Differentiate between fun definition and scope of mar planning, time frames and p 4. Identify strategy and stra management, recognize the techniques, as well as under 5. Distinguish and use the c as develop organizational s 6. Use the concepts of emp and development. 7. Evaluate employee perfor 8. Explain the concepts of le theories, job redesign, and 9. Understand the interpers groups, interpersonal and g	<ul> <li>7. Evaluate employee performance and understand compensation management.</li> <li>3. Explain the concepts of leadership and its models, motivation, motivation theories, job redesign, and empowerment.</li> <li>9. Understand the interpersonal processes, including the formation and behaviour in groups, interpersonal and group conflict, communication in organizations.</li> <li>10. Use the concepts of managerial control and control process, control systems</li> </ul>							
	Course content Introduction to managemen	and	L Hours						
Course content broken down in	roles. Managerial skills. Ma	nagement as a skill and so	cience			2			
detail by weekly class schedule (syllabus)	Environment of an organiza environment. Relationship t environment.					2			
(Syllabus)	Ethics and social responsib					2			
	Fundamental determinants	of managerial planning. D	efinitic	n		2			

	and agona of ma	nonorial	planning DI	opping lovels C	tagaa of	
	and scope of ma					
	managerial planr Organizational st					
	U U	lialegy a	ind strategic	planning. Strate	gic	2
	management. Managerial decis	ion-mak	ring Definitio	ne modele eta	des and	
	tools for decision					2
	Support Systems				. Decision	2
	Fundamentals of			tional structure	Internal	
	economic relatio					2
	governance.	nanipa. i	unuamentai			2
	Forms of organiz	ational	structure Ea	store affecting t	na choice	
	of organizational					2
	selection.	Siluciui		organizational	Siluciule	2
	Human resource	and				
	selection of hum	anu	2			
	Performance rev			paracteristics of	different	
	forms of compen					2
	Leadership. Defi					
	leadership.	muon, m			shiporary	2
	Motivation: defini	ition and	I theoretical c	nnroaches Po	designing	
	individual jobs fo					2
	contemporary m					2
	Interpersonal pro			rnersonal and	roup	
	conflict. Commu				Jioup	2
	Fundamentals of		0		nd startes	
	of controlling. Le					2
	managerial contr				/1	2
	Tools and metho				control	
	Control of operat					2
			anceing and			AE
	Course content		hours			
	Managerial activities, functions, skills and roles.					2
	External and internal organizational environment.					2
	Ethics and social responsibility of the management.					2
	Managerial plan			managomona		2
	Strategy and stra		anagement			2
	Quantitative tools			sion-making		2
	Division of labou			sion making.		2
	Organizational cl					2
						2
	Planning human Employee comp					2
	Leadership style		•			2
	Employee motiva		empowerm	ant		2
						2
	Communication a			128110115.		2
	Controlling in ma					2
	Budget as a cont	uoning to				۷
	<u>x lectures</u> <u>x seminars and</u>	worksh	one	x independen	<u>t assignments</u>	
-	x exercises	WUL731	000	multimedia		
Format of	on line in enti	otv		□ laboratory		
instruction		•		work with m	entor	
	□ partial e-learn	ing				
	□ field work □ (other)					
Student	Student has to pa	articipat	e in classes a	and individual a	ssignments. Red	uirement for
responsibilities	taking the exam	is 70% c	of class atten	dance.		
Screening student	Class		<u> </u>		<b>–</b>	
work (name the	attendance	ECTS	Research		Practical trainin	g
			l	1		1

proportion of ECTS credits for each	Experimental work		Report		Individual assignments	2 ECTS*		
activity so that the total number of	Essay		Seminar essay		(Other)			
ECTS credits is equal to the ECTS	Tests	3 ECTS**	Oral exam	3 ECTS**	(Other)			
value of the course)	Written exam	2 ECTS*	Project		(Other)			
Grading and evaluating student work in class and at the final exam	* Individual ass can be substitu ** There will be student has to	te for the two tests	written exam. during the ser	nester. To pa	rticipate in the s	second test,		
		-	Number of copies in the library	Availability via other media				
Required literature (available in the library and via other media)	ble in the Education. Harlow							
Optional literature (at the time of submission of study programme proposal)								
Quality assurance methods that ensure the acquisition of exit competences	<ul> <li>Class quality</li> <li>Analysis of str</li> <li>Student surver</li> <li>for Quality Import</li> <li>Final exam is</li> </ul>	Monitoring student's class attendance (teacher) Class quality supervisions (Vice-Dean) Analysis of student success (Vice-Dean) Student survey on the quality of teachers and teaching (University of Split, Centre or Quality Improvement) Final exam is relevant for the assessment of course outcomes. The content of exam is reassessed periodically in order to assure fit with course outcomes.						
Other (as the proposer wishes to add)								

NAME OF THE COURSE	MATERIALS 1								
Code	FETE 04	Year of study	1						
Course teacher	Nedjelko Mišina, Ph. D., Full Professor Dražen Živković, Ph. D., Full Professor	Credits (ECTS)	4						
Associate teachers	Nikša Čatipović, Teaching assistant Zvonimir Dadić, Teaching	Type of instruction (number of hours)	L	S	AE	LE	DE		
	assistant	· · ·	30	0	0	30	0		
Status of the course	Obligatory	Percentage of application of e-learning	0						
	COURSE	E DESCRIPTION							
Course objectives	Present basic knowledge about material structures, Introduce students with mechanical properties and their relationship to the structure of the material. Explain the mechanical properties testing, both to materials and completed construction, Provide knowledge about basic methods of detection of errors in materials and metal structures. Present basic alloys phase diagrams, especially Fe - C alloys phase diagrams, as well as the properties of iron alloys								
Course enrolment requirements and entry competences required for the course	None								
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)		e-C alloy procedures basic mechanic d composite materials areas of application of stee	cal prop I, casti	perties	of ma I non-i	iterials ferrous	3		
	Course content				L or S		٩E		
	The types of materials, rec structures, atomic bonds	ognition of materials, atom	nic		hours 2		ours 0		
	Crystal lattice, crystalline la	attice inperfections			2		0		
Course content	The crystallization process crystal growth, resolution (i modification, Curie point	, the rate of crystal formati			2		0		
broken down in detail by weekly class schedule	The deformation (elastic, p process, speed and degree and cold condition, isotrop	e of deformation, deformat			2		0		
(syllabus)	Alloy cooling curves, Solub		iagram		2		0		
	Eutectic phase diagram, Po	eritectic phase diagram			2		0		
	Fe- C alloy phase diagram	S			2		0		
	First midterm exam			<u> </u>					
	Mechanical properties, Ter	nsile strength test			2		0		
	Dynamic strength, Hardnes	ss test methods			2		0		

	Toughnoon Orrest			motor!-!!	action / low-l		1
	Toughness, Creep, I penetrating liquids)				esting (visual,	2	0
	Magnetic method tes	sting, U	ltrasound	testing		2	0
	X and Y-ray testing,	Chemic	cal compo	sition ex	amination	2	0
	Steels, Fe casts					2	0
	Second midterm ex	am					-
	List of laboratory or o		exercises				LE or DE hours
	The types of material	ls. reco	anition of	material	S.		2
	Pure metal heating a				- ,		2
	Complete solubility d				ation		2
	Eutectic phase diagra		I				2
		le Fe-C phase diagram					
		astable Fe-Fe <sub>3</sub> C phase diagram, Curie point					
	Comparison Fe-C – F					allovs	2
	First midterm exam						
	Mechanical propertie	s. Tens	ile strend	th test			2
	Dynamic strength tes				Sparks testing		2
	Hardness testing (Bri						2
	Hardness testing (Po						2
	Magnetic method tes				stina		2
		trasonic testing, X and Y ray testing					
	Second midterm ex						2
	⊠ lectures						
Format of instruction	<ul> <li>□ independent assignments</li> <li>□ seminars and workshops</li> <li>□ exercises</li> <li>□ on line in entirety</li> <li>□ partial e-learning</li> <li>□ field work</li> <li>□ independent assignments</li> <li>□ multimedia</li> <li>□ aboratory</li> <li>□ work with mentor</li> <li>□ (other)</li> </ul>						
Otividant				a a lia tha a		+ 700/ D-	
Student	The presence in lect			es in the	amount of at leas	t 70%. Pe	rrormed
responsibilities	all required laborator	ry exerc	ises.				
Screening student work (name the	Class attendance	1,0	Researc	h	Practical tra	aining	
proportion of ECTS credits for each	Experimental work		Report		Self-directe	ed learning	g 2,0
activity so that the total number of	Essay		Semina essay	r	Laboratory	exercises	1,0
ECTS credits is equal to the ECTS	Tests		Oral exa	am	(Oth	ner)	
value of the course)	Written exam		Project		(Oth	ner)	
Grading and evaluating student work in class and at the final exam	During the semester there will be two mid-term exams (tests). The first mid-term after 7 weeks of classes and the second after the next 6 weeks of classes. At the final exam students have to take part material that did not pass the mid-term. Eac test is carried out as written exam lasting 45 minutes. Usually it consists of 10 test questions and the two tasks. The requirements for a positive evaluation are positive assessment of laboratory exercises and 50% points on each test. The final grade is based on the resulting percentage on mid-term exams. Percentage - Rating 50% to 61% - sufficient (2) 62% to 74% - good (3) 75% to 87% - very good (4) 88% to 100% - excellent (5) Examinations according to the Faculty schedule!						
	The final grade is o	determir	ned after	the sec	ond final exam, a	applying th	ne relative

	ECTS grading system in accordance with the study rules and study system of the Jniversity of Split. A group of students who passed the exam is divided into four sub-groups: 15% of the best students are graded excellent, 35% following very good, the next 35% a good grade and the last 15% positive grade. Students who lid not pass the exam after two final exams have the last chance to pass exam in he autumn period where they can get a positive grade. Overall material has to be bassed at last possible exam. The written exam consists of test with 20 questions and three tasks. The exam lasts 90 minutes.						
	Title	Number of copies in the library	Availability via other media				
Required literature (available in the library and via other media)	N. Mišina, the author's lecture, FESB D. Živković, the author's lecture, FESB		E-learning portal				
	R. Deželić, Meterijali (I dio), FESB Split, 1998.	10					
	F. Kovačiček, Đ. Španiček, Materijali – osnove znanosti o mmaterijaliam, FSB Zagreb, 2000.	2					
	M. Franz, Svojstav materijala 2005.	5					
	B. Anzulović, Materijali, Split, 1993.	3					
Optional literature (at the time of submission of study programme proposal)	T.Filetin, F.Kovačiček, J. Indof, Svojstva i primijena n	naterijala, FSB	Zagreb, 2002.				
Quality assurance methods that ensure the acquisition of exit competences	<ul> <li>Evaluation of results in accordance with the above learning outcomes</li> <li>Feedback from students via surveys</li> <li>Self-evaluation of teachers</li> <li>Institutional and non-institutional evaluations</li> </ul>						
Other (as the proposer wishes to add)							

NAME OF THE COURSE	MATERIALS 2							
Code	FETE 05	Year of study	1					
Course teachers	Nedjeljko Mišina, Ph. D., Full Professor Dražen Živković, Ph. D., Full Professor	Credits (ECTS)	4					
	Nikša Čatipović, Teaching	Type of instruction	L	S	AE	LE	DE	
Associate teachers	assistant Zvonimir Dadić, Teaching assistant	Type of instruction (number of hours)	30	0	0	30	0	
Status of the course	Obligatory	Percentage of application of e-learning						
	COURSE	E DESCRIPTION						
Course objectives	<ul> <li>Provide an overview and e</li> <li>Basic principles of heat ti</li> <li>Chemical diffusion surfac coating,</li> <li>Presents the basic methodical diffusion service of the basic methodical d</li></ul>	reatment processing, e treatment and applicatio			orotec	tive		
Course enrolment	Basic knowledge about str				nis kno	wledg	e can	
requirements and	be obtained in the prereq					-		
entry competences required for the course	news within this area stude							
	Students will be able to:							
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul> <li>Select the appropriate surface heat treatment,</li> <li>Combine heat treatment procedures,</li> <li>Compare the surface heat treatment,</li> <li>Analyze to the basic features of surface heat treatment,</li> <li>Set priorities to protect the surface,</li> </ul>							
	- Propose possible chemic		t for sur	face p	orotec	tion		
	Course content				L	A	١E	
	Later Latin The second				hours	hc	ours	
	Introduction; The purpose of treatment		2		0			
	Phase transformations duri diagrams for isothermal an	Г	2		0			
	Heating devices, Cooling m				2		0	
	Heat treatment; Heat treatr Hardening procedures (typ		ection;		2		0	
Course content	Influential parameters on the Tempering of martensite; T	ne results of quenching; Te		g;	2		0	
broken down in	Annealing procedures; Rec		-		2		0	
detail by weekly class schedule	Normalization; Softened by relaxation		tension		2		0	
(syllabus)	First midterm exam							
	High temperature annealin Aging		2		0			
	Heat treatment of the surfa Induction hardening and fla		ardenir	ıg;	2		0	
	Thermo-chemical heat treatment20							
	Ntriding; Boroning; Diffusion metallization 2 0							
	Hardening by annealing an aluminium alloys, Steel har		f		2		0	
	Heat Treatment of High-Sp				2		0	

	Second midterm ex	kam						
	List of laboratory or							LE hours
	Iron alloy metallograp							2
	Non-ferrous metals N		raphy, No	on-ferro	us meta	als by HR no	orms	2
	Hardness after quene							2
	Testing of hardenabi	lity by th	e Grossr	nan me	thod			2
	Grossman task							2
	Testing by the Jomin	y metho	od of harc	lenabilit	у			2
	Jominy task							2
	First midterm exam					×		
	TTT - diagram verific	ation, T	TT - diag	ram of t	the stee	I C4731		2
	Tempering	. P						2
	Normalization, Annea							2
	Hardening of alumini							2
	Heat-treated steel mo	etallogra	apny					2
	Exam preparation Second midterm ex	am						
	⊠ lectures	am						
		rkahana		🗆 inde	epender	nt assignme	nts	
Format of instruction	□ seminars and wor	rksnops		🛛 mul	timedia			
	⊠ exercises			⊠ labo	oratory			
	□ on line in entirety			□ wor	k with n	nentor		
	□ partial e-learning			(othe	er)			
	□ field work				``	,		
Student responsibilities								
Screening student work (name the	Class attendance	1,0	Researc	Research Laboratory exercises			exercises	1,0
proportion of ECTS credits for each	Experimental work	Repor				Self-directe	ed learning	g 2,0
activity so that the total number of	Essay		Semina essay	•		(Oth	ner)	
ECTS credits is	Tests		Oral exa	am	(Other)			
equal to the ECTS value of the course)	Written exam		Project			(Oth	ner)	
Grading and evaluating student work in class and at the final exam	after 7 weeks of cla final exam students test is carried out as questions and the positive assessment grade is based on the Percentage - Rating 50% to 61% - sufficie 62% to 74% - good 75% to 87% - very g 88% to 100% - exce Examinations accord The final grade is of ECTS grading syste University of Split. A sub-groups: 15% of	During the semester there will be two mid-term exams (tests). The first mid- after 7 weeks of classes and the second after the next 6 weeks of classes. A inal exam students have to take part material that did not pass the mid-term. est is carried out as written exam lasting 45 minutes. Usually it consists of 1 questions and the two tasks. The requirements for a positive evaluation positive assessment of laboratory exercises and 50% points on each test. The grade is based on the resulting percentage on mid-term exams.						

	passed at last possible exam. The written exam cor and three tasks. The exam lasts 90 minutes.	nsists of test v	vith 20 questions
	Title	Number of copies in the library	Availability via other media
Required literature (available in the	D. Živković, Autorizirana predavanja,		E-learning portal
library and via other	R. Deželić, Metali 2, FESB Split, 1998.	10	
media)	F. Kovačiček, Đ. Španiček, Materijali – osnove znanosti o materijaliam, FSB Zagreb, 2000.	2	
	M. Stupnišek, F.Cajner: Osnove toplinske obrade metala, Sveučilište u zagrebu, FSB, 1996.	5	
Optional literature (at the time of submission of study programme proposal)	G.E. Totten, Steal heat treatment – metallurgy and te USA, 2006	echnologies, F	Portland, Oregon,
Quality assurance methods that ensure the acquisition of exit competences	<ul> <li>Evaluation of results in accordance with the a</li> <li>Feedback from students via surveys</li> <li>Self-evaluation of teachers</li> <li>Institutional and non-institutional evaluations</li> </ul>	above learning	outcomes
Other (as the proposer wishes to add)			

NAME OF THE COURSE	MATHEMATICS 1						
Code	FEME03	Year of study	1				
Course teacher	Ivan Slapničar, Ph.D., Full Professor, Anita Matković, Ph.D., Associate Professor, Josipa Barić, Ph.D., Assistant Professor	Credits (ECTS)	7				
	Ph.D. Nevena Jakovčević Stor,		L	S	AE	LE	DE
Associate teachers	mr. sc. Ivančica Mirošević, Irena Bego, Anita Carević, Marija Čatipović, Lea Dujić, Ivana Grgić, Lana Periša, Marina Mandić, Dajana Radišić, Mirjana Strukan, Stjepan Vedran Vukasović, Vanja Županović	Type of instruction (number of hours)	45	0	45	0	0
Status of the course	obligatory	Percentage of application of e- learning	10				
	COURSE DESC	<u> </u>	<u>.</u>				
Course objectives	Training students for: application of mathematical concepts and tools from the area of linear algebra, vector calculus, analytic geometry, diferential calculus, analysis of real functions of real variable, sequences and series of numbers and functions, to analyze and solve engineering and economy problems.						
Course enrolment requirements and entry competences required for the course	Good knowledge of High School mathematics and passed State Exam in Mathematics.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	Students will be able to:         -       state definitions and theorems from the enitre course,         -       reproduce proofs of basic theorems,         -       illustrate theorems with examples,         -       solve systems of linear equations,         -       apply vector calculus to analytical geometry of space,         -       interpret derivatives mathematically, geometrically and physically,         -       analyse functions of one variable,         -       test convergence of sequences and series of numbers and functions.         -       approximate function values by use of Taylor's series.						
	Course content				L or S hours		AE ours
	1. Introduction. Relations. Functio complex numbers, trigonometric f Moivre formulas.				3		3
Course content broken down in detail by weekly class schedule (cyllabus)	2. Matrices. Basic operations with matrices. Matrix formulation of system of linear equations. Gaussian elimination. Linear independence and rank of a matrix. Kronecker-Capelli theorem.						
(syllabus)	<ol> <li>Inverse matrix. Determinants. S subdeterminants. Laplace expans Cramer's rule.</li> </ol>	3		3			
	4. Vectors. Basic operations with Unit vector and cosines of direction				3		3

	vectors and basis of product and mixed p		e. Scalar	(dot) pr	oduct, vector			
	5. Equations of a line analytic geometry.		tions of a	plane.	Applications of	:	3	3
	6. Functions of a rea of functions. Limits a elementary functions	and cont				tion	3	3
	7. Derivatives. Tang approximate comput	ent and	normal. I	Differen	tial and		3	3
	8. Higher derivatives parametric function. Rolle, Cauchy, Lagra undetermined forms	and dif Theore ange). L	ms of diff	erential	calculus (Fern	nat,	3	3
	9. Monotonicity. Nec extrema. Geometrica	essary		cient co	nditions for		3	3
	10. Curvature. Suffic Necessary and suffic Examining functions	cient cor	ndition foi nditions f	or inflec		vity.	3	3
	<ol> <li>Sequences of real numbers. Basic inequality of convergence. Accumulation point and sub-sequence.</li> <li>Boundedness, monotonicity and convergence. Properties of limits. Cauchy series. Some important limits.</li> <li>Series of real numbers. Sufficient condition for</li> </ol>						3	3
	convergence. Convergence criteria. Absolute convergence. Alternating series.						3	3
	13. Sequences of functions. Series of functions. Power series and convergence radius. Differentiating series of functions. Taylor series and applications.						3	3
	List of laboratory or o						1	E or DE hours
Format of instruction	<ul> <li>☑ lectures</li> <li>☑ seminars and workshops</li> <li>☑ exercises</li> <li>☑ on line in entirety</li> <li>☑ partial e-learning</li> <li>☑ field work</li> <li>☑ laboratory</li> <li>☑ work with mentor</li> <li>☑ (other)</li> </ul>				nments	<b>I</b>		
Student responsibilities	Regular attendence	to and a	active par	ticipatio	on in lectures a	nd exce	ercises.	
Screening student work (name the	Class attendance	3	Researc	h	Practio	cal train	ing	
proportion of ECTS credits for each	Experimental work		Report		Self st	udy		3.6
activity so that the total number of	Essay		Seminai essay			(Other)		
ECTS credits is equal to the ECTS	Tests	0.2	Oral exa	ım		(Other)		
value of the course)	Written exam	0.2	Project			(Other)		
Grading and evaluating student work in class and at the final exam	weeks of lectures, a term exam students through assignemer the course is minimu points. After semester, two	During semester two mid-term exams are held. The first exam is scheduled veeks of lectures, and the second in the week following the lectures. At each erm exam students can get 40 points, while the remaining 20 points are a brough assignements during lectures and excercises. The condition for proceeding is minimum 20 points on each mid-term exams and a total of at levionts.					ach mid- attained passing least 50	

	Student which did not pass any mid-term exar comprehensive course content. In that case, maximu is 80. The condition for passing the course is minim and a total of at least 50 points. The grade is formed according to article 75 of the Statute of FESB: 15% of the best students get the mark excellent (5), next 35% students get the mark very good (4), next 35% students get the mark good (3), and the last 15% students get thet mark sufficient (2). Students who did not pass the course after final exar at least 10 points, can attend the correction exam. O number of points is 100, and the minimum requiren points. Mid-term exams, final exams and correction exams a schedule.	um numbers o um 40 points i ed after the se ms, and have n the correctionent for a pas	f available points in the final exam econd final exam obtained total of on exam maximal ssing grade is 50
	Title	Number of copies in the library	Availability via other media
	I. Slapničar, Matematika 1, skripta, FESB, Split		http://www.fesb. unist.hr/mat1
Required literature	Babić, Z., Tomić-Plazibat, N., Aljinović Z.,		unist.m/mati
(available in the library and via other media)	Matematika u ekonomiji, Ekonomski fakultet, Split, 2004.	3	
mediay	Babić, Z., Tomić-Plazibat, N., Poslovna matematika, Ekonomski fakultet, Split, 2004.	3	
	Lecture materials on FESB e-learning portal.		https://elearnin g.fesb.unist.hr/
Optional literature (at the time of submission of study programme proposal)	Petar Javor, Matematička analiza 1, Element, Zagreb Luka Krnić i Zvonimir Šikić, Račun diferencijalni i inte Zagreb, 1993. Šego, B., Matematika za ekonomiste, Narodne novin Chiang, A. C., Osnovne metode matematičke ekonor 1994.	gralni, I. dio, ذ e, Zagreb, 200	05.
Quality assurance methods that ensure the acquisition of exit competences Other (as the	<ul> <li>homework</li> <li>short tests</li> <li>quizzes</li> <li>mid-term exams</li> <li>final exam</li> <li>student questionnaires</li> </ul>		
proposer wishes to add)			

NAME OF THE COURSE	MATHEMATICS 2						
Code	FEME04	Year of study	1				
Course teacher	Ivan Slapničar, Ph.D., Full Professor, Anita Matković, Ph.D., Associate Professor, Josipa Barić, Ph.D., Assistant Professor	Credits (ECTS)	7				
Associate teachers	Ph.D. Nevena Jakovčević Stor, mr. sc. Ivančica Mirošević, Irena Bego, Anita Carević, Marija Čatipović, Lea Dujić, Ivana Grgić, Lana Periša, Marina Mandić, Dajana Radišić, Mirjana Strukan, Stjepan Vedran Vukasović, Vanja Županović	AE 45	LE 0	DE 0			
Status of the course	obligatory	Percentage of application of e- learning	10				
	COURSE DESC	CRIPTION					
Course objectives Course enrolment requirements and entry competences required for the course	Training students for: application of mathematical concepts and tools from the area of integral calculus, ordinary differential equations, functions of several variables and financial mathematics, to analyze and solve engineering and economy problems. Good knowledge of High School mathematics and passed State Exam in Mathematics.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul> <li>reproduce proofs of basic theory</li> <li>illustrate theorems with example solve elementary indefinite intrintegrals.</li> <li>solve ordinary first order difference population growth.</li> <li>analyze the extrema of real further solve simple optimization protection protec</li></ul>	<ul> <li>state definitions and theorems from the enitre course,</li> <li>reproduce proofs of basic theorems,</li> <li>illustrate theorems with examples,</li> <li>solve elementary indefinite integrals and calculate areas by use of definite integrals.</li> <li>solve ordinary first order differential equations and apply them to model population growth.</li> <li>analyze the extrema of real functions of two, and three variables.</li> <li>solve simple optimization problem.</li> <li>calculate final and initially values of one amount, and several periodic</li> </ul>					
	Course content  1. Indefinite integrals. Definition a	nd basic properties	. Table (		L or S <u>hours</u> 3		AE ours 3
0	basic integrals. Supstitution. 2. Partial integration. Integration c	of rational functions					3
Course content broken down in detail by weekly	3. Definite integrals. Definition, ba applications. Improper integrals.		•		3 3		3
class schedule (syllabus)	4. Definite integrals. Definition and Leibnitz formulae. Techniques of i integrals.	integration. Imprope	ər		3		3
	5 Extrema of functions of two, and extrema.		ondition	al	3		3
	6. Optimization by use of Lagrang	e multiplier.			3		3

	7 0 1 11 11	- 1			· • • • • • •	1	1	
	7. Ordinary differenti economy.	ial equa	tions of f	rst orde	r. Applications in	3	3	
		8. Financial mathematics. Compound interest calculation.						
	9. Final and initially values of one amount. Sorts of interest.						3	
	10. Final and initially					3	3	
	11. Eternal rent. Cor with constant annuit	y. Loan	reprogra	mming.		3	3	
	12. Incomplete annu with constant share.				_oan repayment	3	3	
	13. Consumer's loar	۱.	•			3	3	
	List of laboratory or	design e	exercises				LE or DE hours	
Format of instruction	<ul> <li>☑ lectures</li> <li>□ seminars and wor</li> <li>☑ exercises</li> <li>□ on line in entirety</li> <li>□ partial e-learning</li> <li>□ field work</li> </ul>	<ul> <li>□ seminars and workshops</li> <li>□ seminars and workshops</li> <li>□ multimedia</li> <li>□ laboratory</li> <li>□ partial e-learning</li> <li>□ work with mentor</li> <li>□ (other)</li> </ul>						
Student responsibilities	Regular attendence	to and a	active par	ticipatic	on in lectures and e	xcercises.		
Screening student work (name the	Class attendance	3	Researc	h	Practical tr	aining		
proportion of ECTS credits for each	Experimental work		Report		Self study	Self study		
activity so that the total number of	Essay		Semina essay	r	(Oth	(Other)		
ECTS credits is	Tests	0.2	Oral exa	am	(Oth	ner)		
equal to the ECTS value of the course)	Written exam	0.2	Project		(Oth	ner)		
Grading and evaluating student work in class and at the final exam	Written exam0.2Project(Other)During semester two mid-term exams are held. The first exam is scheduled after 7weeks of lectures, and the second in the week following the lectures. At each mid- term exam students can get 40 points, while the remaining 20 points are attained through assignements during lectures and excercises. The condition for passing the course is minimum 20 points on each mid-term exams and a total of at least 50 points.After semester, two final exams and a correction exam are held.Students which did not pass one mid-term exam, can take only this part of the exam during final exams.Student which did not pass any mid-term exam, take the final exam with comprehensive course content. In that case, maximum numbers of available points is 80. The condition for passing the course is minimum 40 points in the final exam and a total of at least 50 points. The grade is formed after the second final exam according to article 75 of the Statute of FESB: 15% of the best students get the mark excellent (5),							
	next 35% students g next 35% students g the last 15% student	jet the n	nark good	d (3), an	d			

	Students who did not pass the course after final exams, and have obtained total of at least 10 points, can attend the correction exam. On the correction exam maximal number of points is 100, and the minimum requirement for a passing grade is 50 points. Mid-term exams, final exams and correction exams are held according to the exam schedule.					
	Title	Number of copies in the library	Availability via other media			
	I. Slapničar, Matematika 2, skripta, FESB, Split		http://www.fesb. unist.hr/mat2			
Required literature (available in the library and via other media)	Babić, Z., Tomić-Plazibat, N., Aljinović Z., Matematika u ekonomiji, Ekonomski fakultet, Split, 2004.	3				
	Babić, Z., Tomić-Plazibat, N., Poslovna matematika, Ekonomski fakultet, Split, 2004.	3				
	Lecture materials on FESB e-learning portal.		https://elearnin g.fesb.unist.hr/			
Optional literature (at the time of submission of study programme proposal)	Šego, B., Matematika za ekonomiste, Narodne novin Chiang, A. C., Osnovne metode matematičke ekonor 1994. Dowling, E. T., Introduction to mathematical economi Mc Graw -Hill, New York, 1996.	mije, MATE, d	.o.o., Zagreb,			
Quality assurance methods that ensure the acquisition of exit competences	<ul> <li>homework</li> <li>short tests</li> <li>quizzes</li> <li>mid-term exams</li> <li>final exam</li> <li>student questionnaires</li> </ul>					
Other (as the proposer wishes to add)						

NAME OF THE COURSE	MECHANICS 1								
Code	FESE10	Year of study	1.						
Course teacher	Frane Vlak, Ph. D., Associate Professor	Credits (ECTS)	7						
Associate teachers	Branka Bužančić- Primorac, Ph. D., Teaching assistant	Type of instruction (number of hours)	L 45	S 0	AE 30	LE 0	DE 0		
Status of the course	Obligatory	Percentage of application of e-learning	0						
	COURSE	DESCRIPTION							
Course objectives	<ul> <li>at state of rest,</li> <li>understanding basic concerning basic concerning</li></ul>	Dication of basic knowledg oncepts in mechanics such orces (from system of con es), body and equilibrium of s lysis of internal forces for h	n as ford current ystem c	ce, mo force: f bodi	oment s to sp es,	of forc			
Course enrolment requirements and entry competences required for the course	None								
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul> <li>force, couple, moment connection, external fo</li> <li>perform composition of spatial system of paral</li> <li>apply equilibrium cond</li> <li>compute reactions of c</li> <li>consider and apply cal flexible belt friction,</li> <li>compute internal force frames, arcs and truss</li> </ul>	<ul> <li>explain fundamental quantities and concepts in mechanics (force, moment of force, couple, moment of couple, system of forces, connection, reaction of connection, external forces, internal forces),</li> <li>perform composition of system of forces (from system of concurrent forces to spatial system of parallel forces),</li> <li>apply equilibrium conditions for body and for system of bodies,</li> <li>compute reactions of connections for statically determined plane structures,</li> <li>consider and apply calculation of rough surface reaction as well as calculation of</li> </ul>							
	Course content				L		١E		
	Mission of statics. Force		nnectio		hours	hc 1	ours		
Course content broken down in detail by weekly class schedule (syllabus)	Reactions of connections. System of concurrent for concurrent forces. Resul force. Force projection of Analytical defining of force. Equilibrium conditions of s	orces. Composition of s tant. Determining component n axis. Force projection ystem of concurrent forces	onents on plan s. Mome	of ne. ent 3		1			
	of force about point. Va resultant of planar system of equilibrium conditions of Coplanar system of parall	of concurrent forces. Spe planar system of concurre	cial fori ent force	ms es.	k	1			

	of two manual factors		A Marrie	at of courts	Faulticles	, г		
		of two parallel forces. Couple. Moment of couple. Equivalence						
	of couples.				<b>–</b>			
	Composition of co	•	•		Equilibrium			
	conditions of coplana	-				_	_	
	Coplanar force syst					3	2	
	point. Reduction			•	•			
	Representing copla	Representing coplanar force system by simplier form. Equilibrium conditions of coplanar force system.						
	Equilibrium conditior							
	Equilibrium condition	ns of c	oplanar s	system of pa	arallel forces.	3	3	
	Equilibrium of syster	n of bod	lies.					
	Friction. Sliding frict	tion. Re	action of	f rough surfa	ace. Friction			
	angle and friction co	ne.						
	Equilibrium under fr	riction c	onditions	. Friction of	flexible belt.	3	3	
	Rolling friction.							
	Plane beams. Inter	nal for	ce comp	onents of p	lane beams.	3	2	
	Relations between			-				
	loading.							
	Examples of plane b	eams				3	3	
	Plane trusses. Plane					3	2	
			roop and		mont of force		2	
	Spatial system of pa			•		3	1	
	about axis. Equivale		•	• ·				
	Composition of spatial		•	•	•			
	conditions of spatial	•		•	•			
	system of parallel		-	enting spatia	al system of			
	parallel forces by sin					_	_	
	Equilibrium conditio		-			3	2	
	Varignon theorem al			resultant of s	patial system			
	of parallel forces abo							
	Spatial-plane beam			•	ts of spatial-			
	plane beams. Exam	ples of s	spatial-pla	ane beams.				
	Centorid. Centre of s	-	-					
	Centroid of rigid	body.	Centorid	of homog	enous body.	3	2	
	Centorid of homog	genous	bodies	with comp	osed shape.			
	Experimental determ	nination	of body	centroid. P	appus-Guldin			
	rules.							
	List of laboratory exe	ercises					LE hours	
	⊠ lectures			□ indonona	lent accignmo	nte		
	□ seminars and wor	rkshops		$\square$ independ	lent assignme	1115		
Format of instruction	⊠ exercises			□ laborator				
Format of instruction	□ on line in entirety			$\square$ work with	•			
	□ partial e-learning				ther)			
	□ field work							
Student	The presence on lec	tures ar	nd exerci	ses in the arr	nount of at leas	st 70 % of	the times	
responsibilities	scheduled.							
Screening student	Class attendance	2,6	Researc	ch	Practical tr	aining		
work (name the						-		
		rk Report Individual we						
proportion of ECTS	Experimental work				Individual v	work	4,1	
	Experimental work Essay		Report Seminal essay	r	Laboratory		4,1	

Tosts	0.2	Oral oxam		Preparation fo	r	
Tesis	0,2	Orarexam		laboratory exe	rcises	
Written exam	0,1	Project		(Other)		
final exam terms ar midterm exam is aft weeks of lecturing. questions and num points on each midt midterm exams take Final number of poin Points(%)= (M1 + M2	nd one er 7 we Each m erical p term ex part. In nts is for 2)/2	corrective exam tecks of lecturing hidterm exam is problems. The re- cam. In the final the corrective e med according to	term a and the written equirem exams xam stu	according to sc second one is and test consi- ent for passin students that idents take who	hedule. T after the sts of the g grade did not pa	he first next 6 oretical is 50%
Final grade is detern according to Regula on the achived nu distributed into four following 35% stude	nined a tions of mber of groups nts get	fter the second f studies and stu of points studer s: 15% of the b grade very good	dy systents that best stu d (4), fo	em of Universit have passed idents get grad llowing 35% st	y of Split. I the exa de excelle	Based am are ent (5),
If the total number of students that have passed the exam at midterms and final exams is lower than 30, the final grade is determined by absolute system of grading. In this case, the final grade is determed by the achived final number of points in the following manner: from 50% to 61% - grade sufficient (2), from 62% to 74% - grade good (3), from 75% to 87% - grade very good (4) and from 88% to 100% - grade excellent (5).						
			erm if t	hey have achiv	ed at lea	st 10%
education activities	and to	attend at least	70% of	f lecture and e	exercise le	
	Title	9		Number of copies in the library	Availabi other r	•
		,				
Plazibat, B., Matokov	vić, A.,	"Mehanika 1 – zł	oirka			
			<u>(a 1"</u>			ning
FESB.	anja 12		λαΙ,		e-lear por	-
Alfirević, I.; Saucha, krutih tijela", "Uvod u mehaniku Zagreb, 2010. Brnić, J., "Statika", S	u – II. Pi Sveučiliš	rimjenjena statika ste u Rijeci, Tehr	a", Gold nički faki	en marketing - ultet, Rijeka, 20	aniku - I. Tehnička 04.	Statika knjiga,
	There are two midte final exam terms ar midterm exam is aft weeks of lecturing. questions and num points on each mid midterm exams take Final number of poin Points(%)= (M1 + M. M1, M2 – points on n Final grade is deterr according to Regula on the achived nud distributed into four following 35% stude good (3) and last 15 If the total number exams is lower tha grading. In this case points in the followin 74% - grade good ( 100% - grade excelle Students can access points on midterm es According to Article education activities Above conditions are According to Article education activities Above conditions are Pavazza, R., "Tehnič Sveučilište u Splitu, Plazibat, B., Matoko zadataka", FESB, Sj Cvitanić, V., "Predav FESB. Alfirević, I.; Saucha krutih tijela", "Uvod u mehaniku Zagreb, 2010. Brnić, J., "Statika", S	Written exam       0,1         There are two midterm examinal exam terms and one midterm exam is after 7 were weeks of lecturing. Each midterm exams and numerical points on each midterm examinater mexams take part. In Final number of points is for Points(%)= (M1 + M2)/2 M1, M2 – points on midexar         Final number of points is for Points(%)= (M1 + M2)/2 M1, M2 – points on midexar         Final grade is determined a according to Regulations of on the achived number of distributed into four groups following 35% students get good (3) and last 15% stude         If the total number of stude exams is lower than 30, grading. In this case, the f points in the following mann 74% - grade good (3), from 100% - grade excellent (5).         Students can access the cr points on midterm exams or According to Article 71 of Feducation activities and to Above conditions are necess         Title         Pavazza, R., "Tehnička meh Sveučilište u Splitu, FESB, Split, 199         Cvitanić, V., "Predavanja iz FESB.         Alfirević, I.; Saucha, J.; To krutih tijela", "Uvod u mehaniku – II. Prezagreb, 2010.         Brnić, J., "Statika", Sveučilište	Written exam       0,1       Project         There are two midterm exams during the sfinal exam terms and one corrective exam midterm exam is after 7 weeks of lecturing weeks of lecturing. Each midterm exam is questions and numerical problems. The repoints on each midterm exam. In the final midterm exams take part. In the corrective e         Final number of points is formed according to Points(%)= (M1 + M2)/2         M1, M2 – points on midexams.         Final grade is determined after the second f according to Regulations of studies and studies on the achived number of points studeed distributed into four groups: 15% of the tofolowing 35% students get grade very good good (3) and last 15% students get grade sulf the total number of students that have p exams is lower than 30, the final grade is determined after inal grade is determined after the second f according to Article 71 of Faculty Statue, seducation activities and to attend at least Above conditions are necessary to access mediate a second to attend at least Above conditions are necessary to access mediate a second to attend at least Above conditions are necessary to access mediate and to attend at least Above conditions are necessary to access mediate and to attend at least Above conditions are necessary to access mediate and to attend at least Above conditions are necessary to access mediate and to attend at least Above conditions are necessary to access mediate and to attend at least Above conditions are necessary to access mediate and to attend at least Above conditions are necessary to access mediate and the set and to attend at least Above conditions are necessary to access mediate and the attend at least Above conditions are necessary to access mediate and the attend at least Above conditions are necessary to access mediate and the attend at least Above conditions are necessary to access mediate	Written exam       0,1       Project         There are two midterm exams during the semester final exam terms and one corrective exam term are midterm exam is after 7 weeks of lecturing and the weeks of lecturing. Each midterm exam is written questions and numerical problems. The requirem points on each midterm exam. In the final exams midterm exams take part. In the corrective exam stut         Final number of points is formed according to the for Points(%)= (M1 + M2)/2         M1, M2 – points on midexams.         Final grade is determined after the second final exa according to Regulations of studies and study syste on the achived number of points students that distributed into four groups: 15% of the best stufollowing 35% students get grade very good (4), for good (3) and last 15% students get grade sufficient         If the total number of students that have passed t exams is lower than 30, the final grade is determed points in the following manner: from 50% to 61% - Gr4% - grade good (3), from 75% to 87% - grade 100% - grade excellent (5).         Students can access the corrective exam term if t points on midterm exams or final exams.         According to Article 71 of Faculty Statue, students education activities and to attend at least 70% of Above conditions are necessary to access midterm         Pavazza, R., "Tehnička mehanika - Statika", Sveučilište u Split, FESB, Split, 2007.         Plazibat, B., Matoković, A., "Mehanika 1 – zbirka zadataka", FESB, Split, 1999.         Cvitanić, V., "predavanja iz kolegija Mehanika 1", FESB.         Alfirević, I.; Saucha, J.; Tonković, Z., Kodvanj, J., Krutih tijela", "Uvod u mehaniku – II. Primjenjena statika", Gold Zagreb, 2010.	Tests         0.2         Oral exam         taboratory exe           Written exam         0.1         Project         (Other)           There are two midterm exams during the semester. After semest final exam terms and one corrective exam term according to sc midterm exam is after 7 weeks of lecturing. Each midterm exam is written and test consist questions and numerical problems. The requirement for passin points on each midterm exam. In the final exams students that who           Final number of points is formed according to the formula:         Points(%)= (M1 + M2)/2           M1, M2 – points on midexams.         Final grade is determined after the second final exam by relative s according to Regulations of studies and study system of Universit on the achived number of points students that have passed distributed into four groups: 15% of the best students get grade following 35% students get grade very good (4), following 35% students get grade very good (4), following 35% students get grade sufficient (2).           If the total number of students that have passed the exam at mi exams is lower than 30, the final grade is determined by abs grading. In this case, the final grade is determed by the achived points in the following manner: from 50% to 61% - grade sufficient 74% - grade good (3), from 75% to 87% - grade very good (4) a 100% - grade excellent (5).           Students can access the corrective exam term if they have achive points on midterm exams or final exams.           According to Article 71 of Faculty Statue, students are obligate to education activities and to attend at least 70% of lecture and e Above conditions are necessary to access midterm and final exams.           According to Article 71 o	Written exam         0,1         Project         (Other)           There are two midterm exams during the semester. After semester there i final exam terms and one corrective exam term according to schedule. T midterm exam is after 7 weeks of lecturing and the second one is after the questions and numerical problems. The requirement for passing grade points on each midterm exam. In the final exams students take whole exam.           Final number of points is formed according to the formula:         Points(%)= (M1 + M2)/2           M1, M2 – points on midexams.         Final grade is determined after the second final exam by relative system of according to Regulations of studies and study system of University of Split. on the achived number of points students that have passed the exidistributed into four groups: 15% of the best students get grade excells following 35% students get grade very good (4), following 35% students get grade very good (4), following 35% students get grade is determined by absolute sys grading. In this case, the final grade is determed by the achived final number of students that have passed the exam at midterms a exams is lower than 30, the final grade is determed by the achived final nur points in the following manner: from 50% to 61% - grade sufficient (2), from 75% to 87% - grade very good (4) and from 100% - grade excellent (5).           Students can access the corrective exam term if they have achived at lead points on midterm exams or final exams.           According to Article 71 of Faculty Statue, students are obligate to contribut education activities and to attend at least 70% of lecture and exercise leadove conditions are necessary to access midterm and final exams.           According to Article 71 of Faculty Statue, students are obligate to contribut edu

	2003.
Quality assurance methods that ensure the acquisition of exit competences	<ul> <li>recording student's presence on lessons</li> <li>evaluation of results in accordance with the above learning outcomes</li> <li>feedback from students via surveys</li> <li>self-evaluation of teachers</li> <li>institutional and non-institutional evaluations</li> </ul>
Other (as the proposer wishes to add)	

NAME OF THE COURSE	MECHANICS 2							
Code	FESE08	Year of study	1					
Course teacher	Željan Lozina, Ph. D., Full Professor Damir Sedlar, Ph. D., Assistant Professor	Credits (ECTS)	7	7				
Associate teachers	Tomac Ivan, Ph. D., Teaching assistant	Type of instruction (number of hours)	L 45	S 0	AE 45	LE 0	DE 0	
Status of the course	Obligatory	Percentage of application of e-learning	0					
	COURSE	E DESCRIPTION						
Course objectives	Training students for: This dynamics. It will develop th particles and rigid bodies a systems. This fundamental understand how machines and communicate work in a	e skills in how to model ar s a foundation for dynamic course will also help deve work, and develop an eng	nd analy c analys elop eng ineering	/ses tl sis of i gineer g mino	ne mo mecha s eyes	tion of inical s to	-	
Course enrolment requirements and entry competences required for the course	None							
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul> <li>systems: Cartesian, na</li> <li>Explain the concepts of how to determine them</li> <li>Explain the notion of a</li> <li>Explain concepts of kir of a conservative force</li> <li>Explain concepts of po</li> <li>Apply particle dynamic</li> <li>Ability to make a rig whose motion is to</li> <li>Ability to make a rig whose motion is to</li> <li>Ability to correctly of Ability to vrite and</li> <li>Ability to use princi &amp; Energy, and Mor</li> <li>Apply the kinematics of Ability to use conce angular acceleration</li> <li>Ability to determine</li> <li>Ability to use princi &amp; Energy, and Mor</li> <li>Ability to use princi</li> <li>Ability to use princi</li> <li>Ability to use princi</li> <li>Ability to use SEI of un displacement, velocity power, momentum, ma</li> </ul>	f displacement, velocity ar force as a vector. hetic, potential and mechan wer and mechanical efficients ght decision related to a ch be studied. draw the free-body diagrar solve Newton equations of ples derived from Newton mentum. f two-dimensional (planar) epts of angular displacements on. 3D for a system of rigid bo a mass moment of inertia f ples derived from Newton mentum, to derive equation to a mass moment of a finertia f ples derived from Newton mentum, to derive equation to a mass for a system of rigid bo	nd acce nical en ency. noice of f motion f motion f s secor rigid-bo ent, ang dies. or body s secor ns of mo ities (lin	leration ergies the s ) for the n for the n for the n for the n for the n for the n for the n for the n for the n for the n for the n for the n fo	ystem he sys he sys , inclu otion. elocity , inclu or a g nd ang	vectors the cor of par tem. tem. ding V v and ding V v and ding V eneral gular energy,	s and ncept ticles Vork Vork rigid-	
Course content	Course content				L or S		λE	
broken down in detail by weekly	Kinematics of Rectilinear m	notion			hours 2		ours 2	
class schedule	Kinematics of Curvilinear n				2		2	

(syllabus)	Bounded motion of p		2. Newton law			2	2	
	Principle of kinetic e		2	2				
	Work –energy theorem.						2	
	Principles of linear a		ular momentum	۱.		2	2	
		Kinematics of Relative motion of particle, Coriolis acceleration.						
	A non-inertial reference frame.						22	
		Dynamics of a system of particles						
	Planar kinematics of					2	2 2	
	Body inertia.	bouy.				2	2	
	Planar kinetics of bo	dv				2	2	
	Planar kinetics of bo					2	2	
	Work and energy of		onconvotion la	NC		2	2	
	Principles of linear a				Impact of	2	2	
	bodies.	-		-				
	Kinetics of body in (3 motion.	3D) spa	ce (Euler equa	tions). Gyi	roscopic	2	2	
	Introduction in analy	tical me	chanics. Hami	ton princip	ole	1	1	
	Lagrangian equation				-	2	2	
	Free vibration. Natur		iencv.			2	2	
	Forced vibration. Re					2	2	
							LE or DE	
	List of laboratory or	design e	exercises				hours	
		ul colo o o o	□ in	dependen	t assignmer	nts		
	□ seminars and workshops							
Format of instruction								
	□ on line in entirety							
	□ partial e-learning			othe)				
	☐ field work			(Othe	, , , , , , , , , , , , , , , , , , ,			
Student	The presence on lec	tures in	the amount of	at least 7	0 % of the ti	mes sch	eduled.	
responsibilities	Performed all require							
Screening student work (name the	Class attendance	3	Research		Practical tra	ining		
proportion of ECTS credits for each	Experimental work		Report		Individual w	ork	4	
activity so that the	Essay		Seminar essay		(Oth	er)		
total number of ECTS credits is	Tests		Oral exam		(Oth	er)		
equal to the ECTS value of the course)	Written exam		Project		(Oth	er)		
	There are two midte	rme and	l final evame	he first m	idterm even	n is aftar	7 weeks of	
	lecturing and the se							
	that did not pass the							
Grading and	carried out as writte							
evaluating student	each midterm exam							
work in class and at	the formula:					onnea a	coording to	
the final exam			Grade(%) = 0	5 (M1 + N	12)			
	<ul> <li>M1, M2 – te</li> </ul>	st result	. ,					
						-		
Demoire Life of					Number of	ΙΔναι	lability via	
Required literature		Title	)		copies in	1	er media	
(available in the					the librar	y Un		
library and via other	Ž. Lozina: Lectures,	FESB				-	ning portal	
media)	Ž. Lozina: Kinematik		čilište u Solitu				0 - 5.101	
		a, oveu	ioniste u opiitu					

	Ž. Lozina: Dinamika, Sveučilište u Splitu		
Optional literature (at the time of submission of study programme proposal)	Gross, D., Hauger, W., Schröder, J., Wall, W.A., Bo 3, Springer, 2011.	net, J.: Enginee	ering mechanics
Quality assurance methods that ensure the acquisition of exit competences	<ul> <li>Evaluation of results in accordance with the</li> <li>Feedback from students via surveys</li> <li>Self-evaluation of teachers</li> <li>Institutional and non-institutional evaluation</li> </ul>		outcomes
Other (as the proposer wishes to add)			

NAME OF THE COURSE	MECHANICS OF MATER	IALS					
Code	FESE02	Year of study	2.				
Course teacher	Frane Vlak, Ph. D., Associate Professor	Credits (ECTS)	7				
Associate teachers	Marko Vukasović, Ph. D., Teaching assistant	Type of instruction (number of hours)	L 45	S 0	AE 30	LE 0	DE 0
Status of the course	Obligatory	Percentage of application of e-learning	0				
	COURS	E DESCRIPTION					
Course objectives	- introducing to stress a	blication of basic laws of so nd strain distribution in the n, bending, shear and con	beams	unde	r diffe		oes
Course enrolment requirements and entry competences required for the course	Statics (Mechanics 1)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			<u></u>		
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul> <li>analyse plane stress u</li> <li>calculate geometrical p</li> <li>determine stress and c</li> <li>torsion and bending,</li> <li>apply developed proce</li> <li>stress and strain desig</li> <li>solve statically indeterming</li> <li>deflection curve and th</li> <li>analyse beams under the</li> </ul>	properties of cross sections displacements of beams un odures to analyse and desi	s, nder ter gn simp metho placeme	nsion/o ole str d of in ents ,	compr ucture tegrat	ession s (allo <sup>,</sup>	, wable
	Course content	er waeren ig er oeranner			L	ŀ	١E
					hours		ours
	Introduction to mechanics of of mechanics of materials. vector, normal and shear s transformation.	Modelling of structures. S	tress	ods	3		2
	Principal stresses. Mohr's on normal strain, shear strain transformation. Mohr's circ	and dilatation. Strain tense		in	3		2
Course content broken down in detail by weekly class schedule	Stress-strain relationship. Experimental data for technical materials.Hooke's law for uniaxial stress state. Plane stress state. Relationship between elasticity constants. Relationship32between internal force components and stress components.32					2	
(syllabus)	General approach to problems of mechanics of materials. Geometrical properties of plane areas, first and second moment of area. Parallel axis theorem. Transformation of second moments of area under rotation of coordinate system. Mohr's circle for second moments of area. Radius of gyration.				3		2
	Tension/compression. Pris varying cross sectional are concentration.	matic beams and beams v	with		3		2
	Torsion of circular beams. Shear stress and strain. Al Assumptions and constrair	lowable stress design. Bei			3		2

	Pure bending. Trans Unsymmetric bendin		ending. A	llowabl	e stress	s design.	3 2			
	First midterm exam	.9.								
	Differential equation	of the d	leflection	curve.	Momen	t-area				
	method. Stresses ar	nd strain	s of bear	ns with	nonunif	orm cross	3	2	2	
	sections.									
	Shear. Statically inde				o ond n	rootroino	3	2	2	
	tension/compression Statically indetermin									
	indeterminate proble			0101011.	Olalioal	'y	3	2	2	
		Strain energy. Failure theories.							2	
	Failure theories for c		3	2	2					
	Buckling of columns		and inel	astic bu	ckling. I	Design	3		2	
		ormulas for columns.							-	
	Second midterm exa	am								
		independent assignme								
	□ seminars and wo	rkshops			timedia	<b>J</b>				
Format of instruction	⊠ exercises			🗆 labo	oratory					
	□ on line in entirety									
	□ partial e-learning □ field work (other)									
Student		turoo in	the emo	unt of a	t looot 7	$^{\prime}$ 0.0/ of the t	imoo oob	odulor		
responsibilities	The presence on lect Performed all require						lines sch	equiec	J.	
Screening student work (name the	Class attendance	2,6	Researc	:h		Practical tra	Practical training			
proportion of ECTS credits for each	Experimental work		Report			Individual v	Individual work		4,1	
activity so that the	Essay		Seminal essay			Laboratory	Laboratory exercises			
total number of ECTS credits is	Tests	0,2	Oral exa	m		Preparation for				
equal to the ECTS	10010	0,2				laboratory	exercises	;		
value of the course)	Written exam	0,1	Project			(Oth	,			
Grading and evaluating student work in class and at the final exam	There are two midte lecturing and the set that did not pass the carried out as writt formula: the activities in perce • M1, M2 – tes	cond on e midte en tests entage:	e is after rm exam s. Grade Grade(%	the ne s take j (in pe	xt 6 we part. Th rcentag	eks. In the f e midterm a e) is forme	inal exan and final	ns stud exams	dents s are	
		Title				Number copies i the libra	n Avai	labilit er me	-	
Required literature (available in the	Alfirević, I: Nauka o Zagreb, 1989.	čvrstoći	I, Tehnič	ka knjig	ja,	5			_	
library and via other media)	Zagreb, 1989. F. Vlak: Autorizirana predavanja, FESB						e-	learnir portal	-	
		_	_							
Optional literature (at the time of submission of study programme	Craig, R., R.: Mecha	inics of I	Materals,	John V	Viley & S	Sons, New `	York, 200	0.		

proposal)	
Quality assurance methods that ensure the acquisition of exit competences	<ul> <li>Evaluation of results in accordance with the above learning outcomes</li> <li>Feedback from students via surveys</li> <li>Self-evaluation of teachers</li> <li>Institutional and non-institutional evaluations</li> </ul>
Other (as the proposer wishes to add)	

Želj Course teacher	SC24 jko Domazet, Ph.D.,	Year of study		2				
Course teacher Full	iko Domazet, Ph.D.,			3				
Ful	Full Professor, Lovre Krstulović-Opara, Ph.D., Full ProfessorCredits (ECTS)4							
	o Bugarin, D.,Teaching assistant	Type of instruc (number of hou		L 30	S 0	AE 0	LE 0	DE 30
Status of the course Ele	ctive	Percentage of application of e	e-learning	40%				
	COURSE DESCRIPTION							
<ul> <li>Training students for:         <ul> <li>Designing and maintaining of simple metal structures. Acquiring know from types of structural materials, optimal designing, typical joints, co and testing (control) of metal structures.</li> <li>Design and project documentation based on CAD software SolidWorl</li> <li>Numerical modelling of metal structure based on finite element simula software ADINA.</li> </ul> </li> </ul>						orrosio orks.	on	
Course enrolment Nor requirements and entry competences required for the course	None							
Learning outcomes - expected at the level - of the course (4 to - 10 learning - outcomes) -	- Carry out anti-corrosive protection.						5	
Со	urse content			0		L or S		٩E
	oduction to metal structunt		ıral design.			hours 4	hc	ours
	terials for metal structure		alloys and s	steel)		4		
Act	ions on structures accor	rding to HRN, D	IN, EURO	CODE	3	4		
Met	tal structures optimal de	sign.				2		
	t connections with dime	-				4		
	Idments with dimension	-				4		
class schedule fatig	sign of weldments and b gue.	oolt connections	with respe	ect to		2		
	i-corrosive protection.	·				2		
	ntracting and renewal of		protection.			2		
	t of laboratory or design			0.0000	ont in	S14/		hours
Den	oduction to SolidWorks a nonstration of NDT meth gnetic particles inspectio	nods (visual test	ting, peneti			500.		8 4
				INA				8
Intro								
	ulation of structure load							8

	<ul> <li>seminars and wor</li> <li>exercises</li> <li>on line in entirety</li> <li>partial e-learning</li> <li>field work</li> </ul>	nentor er)					
Student responsibilities							
Screening student work (name the	Class attendance	2	Research		Practical traini	ng	
proportion of ECTS credits for each	Experimental work		Report		Individual worl	κ	1
activity so that the total number of	Essay		Seminar essay	1	(Other)		
ECTS credits is	Tests		Oral exam		(Other)		
equal to the ECTS value of the course)	Written exam		Project		(Other)		
Grading and evaluating student work in class and at the final exam	Maximal score is 100 Exam: individual, the	Evaluation of gained knowledge in form of two colloquiums. Aaximal score is 100 points, while minimum is passing of exam is with 50 points. Exam: individual, theoretical. Aode of exam: written form.					
		Title	9		Number of copies in the library	Availabi other r	-
Required literature (available in the	Ž. Domazet, L. Krstu konstrukcija (in Croa		para, Skripta iz l	Metalnih		E-lea	rning
library and via other media)	Additional course ma					E-learning	
,							
Optional literature (at the time of submission of study programme proposal)	građevinarst	E 3 D. Dumo tva Hrva vod u m	ović, I. Džeba, M atske, Zagreb 19 letalne konstruk Split 1998.	94.	•		sti
Quality assurance methods that ensure the acquisition of	<ul> <li>Student evaluation</li> <li>Registering student</li> </ul>	ns	·				

NAME OF THE COURSE	MODERN MATERIAL PR	OCESSING TECHNOLOGI	ES				
Code	FETE06	Year of study	3.				
Course teacher	PhD Nikša Krnić, Associated professor	Credits (ECTS)	4				
Associate teachers	Domagoj Kojundžić, Teaching Assistant	Type of instruction (number of hours)	LE 15	DE			
Status of the course	Elective	Percentage of application of e-learning			8		
	COURSE	E DESCRIPTION					
Course objectives	order to prepare them for n manufacturing solutions. A processing, as well as fricti applications will be depicte processing and interactions To acquire essential and s applications for engineering	contemporary materials pro nodern industries, technolog n overview of advanced and ion stir processing and lates ad as the fundamentals for u s of these technologies with pecialistic knowledge about g materials and to obtain ins	jical c l key t indu nders vario laser	challen techno istrial standin us typ and ro	iges a plogy - robotio ig of n es of i pbotic	nd - laser c nateria materia	ls
Course enrolment requirements and entry competences required for the course	technological properties. No special prerequisites are foreseen but it would be advisable that students have accomplished subjects of engineering materials and technologies from previous semesters and to be familiar with basics of physics.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ol> <li>to classify and to m construction and ba material processing</li> <li>to classify and to re processing and the</li> <li>to analyse and to e on the structure and</li> <li>to critically evaluate various structural m</li> <li>to select and to rec industrial applicatio</li> <li>to know the possibi</li> <li>to be able to genera cutting or additive la</li> <li>to be aware of dang laser and robotic te environment.</li> </ol>	<ul> <li>construction and basic features as well as the different optical systems for material processing,</li> <li>to classify and to recognize different robotic systems for materials processing and their basic features,</li> <li>to analyse and to evaluate laser beam – material interaction and influence on the structure and properties of engineering materials,</li> <li>to critically evaluate combined effect of laser and electric arc impact on various structural metals,</li> <li>to select and to recommend suitable laser processing method for specific industrial application,</li> <li>to know the possibilities, limitations and applications of friction stir welding,</li> <li>to be able to generally compose a welding robotic cell or robotic cell for cutting or additive layer manufacturing,</li> </ul>					
	Course content					Lh	ours
	materials. Evolution and fu	ng technologies and moder ndamentals of a laser as a r g. Laser beam properties. La	manu	facturi			3
Course content broken down in detail by weekly class schedule	low power lasers. Optical s Laser – material interactior Thermal and athermal mat	ns with metallic and non-me erial processing. Laser proc	tallic i essin	materi g map	als. s.		4
(syllabus)	Macro laser processing – v spraying and surface modi	domain - microwelding, drilli velding, hybrid laser welding fication. d laser system components	g, cutt	ing,	Ū		4

						· · · · · · · · · · · · · · · · · · ·		
	Examples of laser in sensitive metals, in r shipbuilding, photove steels lightweight m	medical oltaics i	devices t ndustry	technolo . (refra	ogy; in a ctive me	automotive and etals, high-strength	2	
	steels, lightweight m Friction Stir Welding of microstructure, su channels. Robotic F	. Frictio	n Stir Pro	cessing	g for sel	ective modification	3	
	Introduction to robot features of robots. S their typical modern manufacturing, brazi	ics and ensors. applicat	Industria tions (we	Il roboti Iding, ci	c systen utting, a	ns and cells and ditive layer	2	
		n-line and off-line programming.						
	Principles and featur welding processes ( friction stir welding), industrial robotic app Examples of adaptiv	GMAW; robotic plication	GTAW; cutting, t s.	PAŴ; S hermal	SAW, las spraying	ser hybrid welding,	6	
	List of exercises						LE hours	
	Health hazards, prec technologies.	ealth hazards, precautions and safety by laser and robotic						
	Experimentation on in	xperimentation on interaction of laser beam with different metallic and on-metallic materials. Practical laser melting and laser micro welding.						
	Demonstration of fric		0				1	
		Characterization of robotic cell for Gas Metal Arc welding.						
	robot jogging.							
	alloys.	Practical presentation of robotic GMA welding on selected structural alloys.						
	An educational and p dealing with laser or learning opportunity f	robotic	technolog				(3)	
Format of instruction	<ul> <li>☑ lectures</li> <li>□ seminars and wor</li> <li>☑ exercises</li> <li>□ on line in entirety</li> <li>□ partial e-learning</li> <li>□ field work</li> </ul>			⊠ mul ⊠ labo □ wor	epender Itimedia oratory k with n (othe			
Student responsibilities	Mandatory minimum	attenda	ance: 70	% for th	ne lectur	es and 85 % for lab e	exercises.	
Screening student work (name the	Class attendance	1,5	Researc	ch		Practical training		
proportion of ECTS	Experimental work		Report			Individual work	1,5	
credits for each activity so that the total number of	Essay		Semina essay	r	1	(Other)		
ECTS credits is	Tests		Oral exa	am		(Other)		
equal to the ECTS value of the course)	Written exam		Project			(Other)		
Grading and evaluating student work in class and at	semester or by the examination) after minimum level which	e regula comple n studer	ar writter ete exec nts have t	n exam ution o o satisf	n (in ar of lectu y is 50 9		short oral Required	
the final exam	61 % successfully ar	nd satis	factorily a	adopted	l knowle	(2) or sufficient requi dge, grade (3) or goo ⁄6 and grade (5) or e	od for 62 %	

	administered for 88 % and more. Seminar can improve	the final grad	le.			
	Title	Number of copies in the library	Availability via other media			
Required literature (available in the library and via other media)	<ul> <li>Selected chapters in:</li> <li>1. Ion, J. C.: Laser Processing of Engineering Materials - principles, procedure and industrial application, Elsevier Butterworth-Heinemann, 2005.</li> <li>Handbook of laser welding technologies, Katayama, S., Editor, Woodhead Publishing, 2013.</li> <li>Pires, J. N.; Loureiro A.; Bölmsjo G.: Welding Robots - Technology, System Issues and Applications, Springer-Verlag, 2006.</li> <li>Siciliano, B.; Khatib, O.: Springer Handbook of Robotics, Springer-Verlag, 2008.</li> <li>Weber, M. J.: Handbook of Lasers, CRC Press LLC, 2001.</li> <li>Duplančić, I., Krnić, N.: "Materijali 3", e-book, FESB, Split 2011.</li> <li>Krnić, N.: Laserska obrada materijala, handouts, unpublished, FESB, 2010.</li> </ul>		eLearning portal			
Optional literature (at the time of submission of study programme proposal)	<ol> <li>Steen, W. M., Mazumder, J.: Laser Material Processing, IV Ed., Springer 2010.,</li> <li>Dowden, J.: The Theory of Laser Materials Processing - Heat and Mass Transfe in Modern Technology, Springer, 2008.,</li> <li>Callister, W. D. Jr.: Fundamentals of Materials Science and Engineering, An Integrated Approach, II. Ed., John Wiley and Sons, Inc. 2005.</li> <li>Conference proceedings, manuals, journals, manufacturer information and distinguished web documents dealing with course topics in Croatian and English</li> </ol>					
Quality assurance methods that ensure the acquisition of exit competences	<ul> <li>Evaluation of results in accordance with the lea</li> <li>Feedback from students via surveys</li> <li>Self-evaluation of teachers</li> <li>Institutional and non-institutional evaluations</li> </ul>	arning outcom	es			
Other (as the proposer wishes to add)						

NAME OF THE COURSE	NOISE AND VIBRATION	CONTROL					
Code	FESR16	Year of study	3				
Course teacher	Željan Lozina, Ph.D., Full Professor Damir Sedlar, Ph.D., Assistant Professor	Credits (ECTS)	5				
Associate teachers	Tomac Ivan, Ph.D., Assistant Professor	Type of instruction (number of hours)	L :	S AE 15	LE 15	DE	
Status of the course	Elective	Percentage of	0	15	15		
COURSE DESCRIPTION							
	Training students for:						
Course objectives	<ul> <li>introduce students for</li> <li>introduce students to the vibration control;</li> <li>provide basic knowledge</li> <li>provide the application o</li> </ul>	and understanding of nois	se and vib	ration cor			
Course enrolment requirements and entry competences required for the course	None						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul> <li>Students will be able to:</li> <li>Explain free and forced vibrations,</li> <li>Determine the natural frequency of the mechanical system with single degree of freedom,</li> <li>Explain the concepts and phenomena: transferability, excitation imbalance, vibration isolation,</li> <li>Explain the principles of noise isolation,</li> <li>Apply the basic techniques of vibration isolation,</li> <li>Handle with manual measuring instruments and operate with sensors to measure acceleration (accelerometer).</li> </ul>						
	Course content	· · ·		L or S	A	١E	
		<u> </u>		hours	-	ours	
	Single degree of freedom	,		2		1	
	Single degree of freedom					1	
	Single degree of freedom solutions Single degree of freedom solutions			2		1 1	
	Transmissibility	system – torceu uampeu v	IDIALION	2		1	
<b>a</b>	Base and imbalance excita	ation vibration isolation		2		1	
Course content broken down in	Two degree of freedom sys			2		1	
detail by weekly	Wave equation			2		1	
class schedule	Fundamentals of noise			2		1	
(syllabus)	Humane response to soun	d		2		1	
	Sound source, outdoor sou			2		1	
	Indoor sound			2		1	
	Sound isolation			2		1	
	List of laboratory or design	exercises			ho	or DE ours	
	Introduction to Labview					2	
	Single degree of freedom s	ystem – free damped vibra	ation			1	

	Frequency response	functior	n SDOF -	- shaker			1	
	Frequency response	functior	SDOF -	- unbalance			1	
	Single plane balancir	וg					1	
	Frequency response	functior	MDOF -	- shaker			2	
	Sound pressure mea						1	
	Sound pressure mea						1	
	Sound isolation						1	
	Reverberation time						1	
	Kundt tube						1	
	⊠ lectures							
	□ seminars and wor	rkshons			nt assignments			
	$\boxtimes$ exercises	Ronopo		multimedia				
Format of instruction	$\Box$ on line in entirety			☑ laboratory				
				work with n	nentor			
	$\Box$ partial e-learning			□ (oth	er)			
	☐ field work			,	•			
Student	The presence on lec				'0 % of the time	es schedu	iled.	
responsibilities	Performed all require	ed labor	atory exe	ercises.				
Screening student	Class attendance	2	Researc	h	Practical traini	ng		
work (name the proportion of ECTS	Experimental work		Report		Individual worl	<	3	
credits for each			Seminal	r		•	0	
activity so that the total number of	Essay		essay		(Other)	(Other)		
ECTS credits is	Tests	ests Oral exam		(Other)				
equal to the ECTS value of the course)	Written exam		Project		(Other)			
Grading and evaluating student work in class and at the final exam	that did not pass the carried out as writte each midterm exam the formula:	e midte en tests. or the fi	rm exam The req nal exam Grade(%	lecturing and the second one is after the next 6 weeks. In the final exams students that did not pass the midterm exams take part. The midterm and final exams are carried out as written tests. The requirement for passing grade is 50 % points of each midterm exam or the final exam. Grade (in percentage) is formed according to the formula: Grade(%) = 0,5 (M1 + M2)				
	• $M1, M2 - tes$	st result	• M1, M2 – test results.					
	litie copies in							
Required literature		Title				Availab other	-	
Required literature (available in the	Ž. Lozina: Lectures,				copies in		media	
(available in the	Ž. Lozina: Lectures, D. Sedlar: Lectures,	FESB			copies in	other	media	
	D. Sedlar: Lectures,	FESB FESB	•	Oxford	copies in	other	media	
(available in the library and via other	D. Sedlar: Lectures, B.H. Tongue: Princip	FESB FESB ples of v	•	Oxford	copies in	other	media	
(available in the library and via other	D. Sedlar: Lectures,	FESB FESB ples of v	•	Oxford	copies in	other	media	
(available in the library and via other media)	D. Sedlar: Lectures, B.H. Tongue: Princip University press, 199	FESB FESB bles of v 96	ibration,		copies in the library	other Elearnin	media	
(available in the library and via other media) Optional literature	D. Sedlar: Lectures, B.H. Tongue: Princip University press, 199 M. Norton, D. Karczu	FESB FESB bles of v 96 ub: Fund	ibration,		copies in the library	other Elearnin	media	
(available in the library and via other media) Optional literature (at the time of	D. Sedlar: Lectures, B.H. Tongue: Princip University press, 199	FESB FESB bles of v 96 ub: Fund	ibration,		copies in the library	other Elearnin	media	
(available in the library and via other media) Optional literature (at the time of submission of study	D. Sedlar: Lectures, B.H. Tongue: Princip University press, 199 M. Norton, D. Karczu	FESB FESB bles of v 96 ub: Fund	ibration,		copies in the library	other Elearnin	media	
(available in the library and via other media) Optional literature (at the time of submission of study programme	D. Sedlar: Lectures, B.H. Tongue: Princip University press, 199 M. Norton, D. Karczu	FESB FESB bles of v 96 ub: Fund	ibration,		copies in the library	other Elearnin	media	
(available in the library and via other media) Optional literature (at the time of submission of study programme proposal)	D. Sedlar: Lectures, B.H. Tongue: Princip University press, 199 M. Norton, D. Karczu Engineers, Cambridg	FESB FESB bles of v 96 ub: Fund ge, 2003	ibration, damental 3.	s of Noise and	copies in the library	other Elearnin	g portal	
(available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance	D. Sedlar: Lectures, B.H. Tongue: Princip University press, 199 M. Norton, D. Karczu Engineers, Cambridg - Evaluation o	FESB FESB oles of v 96 ub: Fund ge, 2003	ibration, damental	s of Noise and	copies in the library	other Elearnin	g portal	
(available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure	D. Sedlar: Lectures, B.H. Tongue: Princip University press, 199 M. Norton, D. Karczu Engineers, Cambridg - Evaluation o - Feedback fro	FESB FESB oles of v 96 ub: Fund ge, 2003	ibration, damental damental 3.	s of Noise and	copies in the library	other Elearnin	g portal	
(available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the acquisition of	D. Sedlar: Lectures, B.H. Tongue: Princip University press, 199 M. Norton, D. Karczu Engineers, Cambridg - Evaluation o - Feedback fro - Self-evaluation	FESB FESB oles of v 96 ub: Fund ge, 2003 of results om stud ion of te	ibration, damental damental 3. s in accor ents via s achers	s of Noise and dance with the surveys	copies in the library	other Elearnin	g portal	
(available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the acquisition of exit competences	D. Sedlar: Lectures, B.H. Tongue: Princip University press, 199 M. Norton, D. Karczu Engineers, Cambridg - Evaluation o - Feedback fro - Self-evaluation	FESB FESB oles of v 96 ub: Fund ge, 2003 of results om stud ion of te	ibration, damental damental 3. s in accor ents via s achers	s of Noise and	copies in the library	other Elearnin	g portal	
(available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the acquisition of	D. Sedlar: Lectures, B.H. Tongue: Princip University press, 199 M. Norton, D. Karczu Engineers, Cambridg - Evaluation o - Feedback fro - Self-evaluation	FESB FESB oles of v 96 ub: Fund ge, 2003 of results om stud ion of te	ibration, damental damental 3. s in accor ents via s achers	s of Noise and dance with the surveys	copies in the library	other Elearnin	g portal	

NAME OF THE COURSE	PHYSICS						
Code	FEMC01	Year of study	1.				
Course teacher	Ivica Puljak, Ph.D., Full Professor, Nikola Godinović, Ph.D., Associate Professor,Ilja Doršner, Ph.D., Associate Professor, Damir Lelas, Ph.D., Assistant Professor	Credits (ECTS)					
<b>A C C C</b>		Type of instruction	L	S	AE	LE	DE
Associate teachers		(number of hours)	45	0	0	0	0
Status of the course	Obligatory	Percentage of application of e-learning	0				
	COURSE	E DESCRIPTION					
	Training students for:						
Course objectives	<ul> <li>understanding of b</li> </ul>	asic laws of classical phys s of classical physics to re		orobler	ns.		
Course enrolment requirements and entry competences required for the course	None						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul> <li>thermodynamics, oscill structure of atoms.</li> <li>to demonstrate probler</li> <li>to perform more completing the mentioned units.</li> <li>to analyse real physical to present physical corrareas.</li> <li>to interpret physical pro-</li> </ul>	<ul> <li>to demonstrate problem solving in the area of these physical units.</li> <li>to perform more complex conclusions from fundamental physical principles in the mentioned units.</li> <li>to analyse real physical problems in these units.</li> <li>to present physical concepts and solutions of real problems in the mentioned</li> </ul>					
	Course content				L		٩E
					hours	ho	ours
	Physical quantities and uni introduction to the calculus		asic		3		0
	Particle kinematics.				3		0
Course content	Newton's laws, friction forc				3		0
broken down in detail by weekly	Work, power, energy. The and rigid bodies.	movement of system of pa	articles		3		0
class schedule	Gravity, gravitational poten	tial energy.			3		0
(syllabus)	Fluid statics and dynamics	·			3		0
	Heat and thermodynamics.	·			3		0
	Harmonic oscillations.				3		0
	Mechanical waves, sound	waves, ultrasound.			3		0
	Electromagnetic waves.				3		0
	Geometrical and physical of	optics.			3		0

	The quantum nature	The quantum nature of light. 3 0						0
	The structure of ator	ns.					3	0
Format of instruction	<ul> <li>☑ lectures</li> <li>☑ seminars and workshops</li> <li>☑ exercises</li> <li>☑ on line in entirety</li> <li>☑ partial e-learning</li> <li>☑ field work</li> <li>□ independen</li> <li>□ multimedia</li> <li>□ laboratory</li> <li>□ work with m</li> <li>□ (other</li> </ul>				entor	ts		
Student responsibilities								
Screening student work (name the	Class attendance	1,5 Research P		Practical tra				
proportion of ECTS credits for each	Experimental work		Report			Individual w	ork	3,1
activity so that the total number of	Essay		Semina essay			(Othe	er)	
ECTS credits is equal to the ECTS	Tests	0,2	Oral exa	am		(Othe	er)	
value of the course)	Written exam	0,2	Project			,	,	
Grading and evaluating student work in class and at the final exam	midterm exam is aft weeks. Each midterr - 2 obligatory que - 4 additional que The requirement for from each obligato questions. Students the final exams. Fina - 4 obligatory que - 8 additional que The requirement for each of obligatory que Final grade is determ mean of the per cent not enter the arithmetic final exams are grou arithmetic means are next best arithmetic with the next to next of the students with (satisfactory). Students who fail to	here are two midterm exams, two final exams and one make-up exam. The first indterm exam is after 7 weeks of lectures and the second one is after the next 6 yeeks. Each midterm test consists of the following 6 questions: 2 obligatory questions (basic course questions); 4 additional questions that test the theory and problem solving knowledge. The requirement for passing grade at the midterm exams is to have at least 90% oom each obligatory question and at least 50% from each of remaining 4 uestions. Students that do not pass one of the midterm exams can retake it during the final exams. Final exams lasts consist out of the following 12 questions: 4 obligatory questions that test the theory and problem solving knowledge. the requirement for passing grade at the final exam is to have at least 90% from ach of obligatory questions (basic course questions); 8 additional questions that test the theory and problem solving knowledge. The requirement for passing grade at the final exam is to have at least 90% from ach of obligatory questions and at least 50% from each of remaining 8 questions. In all grade is determined using the relative grading system based on the arithmetic the of other the arithmetic mean. Students that have passed both midterm exams or nal exams are grouped in four categories: 15% of the students with the highest rithmetic means are assigned grade A (excellent), 35% of the students with the ext best arithmetic means are assigned grade B (very good), 35% of the students with the first the the next to next best arithmetic means are assigned grade B (very good), and 15% f the students with the lowest passing arithmetic means are assigned grade D						
		Title	)			Number of copies in the library		ilability via her media
Required literature (available in the	D. Lelas: Online mat FESB							
library and via other	Kulišić, P.: Mehanika		a, Školsk	a knjiga	a,			
media)	Zagreb, 1995. (in Cr V. Henč-Bartolić, Ku			ontika Č	Skoleka			
	knjiga, Zagreb, 1995			οριικά, σ	JNUISNO			
			,					

Optional literature (at the time of submission of study programme proposal)	<ul> <li>D. Halliday, R. Resnick, J. Walker: Fundamental of Physics, 7th Edition, John Wiley &amp; Sons, Inc., 2005; N. Cindro: Fizika 1, Školska knjiga, Zagreb, 1991; C. Kittel, W. D. Knight, M. A. Ruderman: Udžbenik Sveučilišta u Berkeleyu, Svezak 1, Mehanika, Tehnička knjiga, Zagreb, 1992.</li> </ul>								
Quality assurance methods that ensure the acquisition of exit competences Other (as the	<ul> <li>Student evaluation surveys</li> <li>Teacher self-evaluation</li> <li>Institutional and non-institutional evaluations</li> </ul>								
proposer wishes to add)									
NAME OF THE COURSE	PRINCIPLES OF ECONOMICS								
--	--	---	-----------	----	-----------------	----	------------	--	--
Code	FEEE02	Year of study	1						
Course teacher	Zlatan Reić, Ph. D., Full Professsor Maja Mihaljević Kosor, Ph. D., Assistant Professor	Credits (ECTS) 5							
	Maja Mihaljević Kosor,		L	S	AE	LE	DE		
Associate teachers	PhD Vladimir Šimić, PhD, Teaching assistant	Type of instruction (number of hours)	0	30	0	0			
Status of the course	obligatory								
	COURS	E DESCRIPTION							
Course objectives Course enrolment requirements and entry competences required for the course	understand main ecor	course is to ensure students nomic relationships and pro			ility to				
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul> <li>Students will be able to:</li> <li>1. To identify and describe main economic terms.</li> <li>2. To discuss and compare main economic theories in the history of economic thought.</li> <li>3. To outline the construction of individual and general market equilibrium.</li> <li>4. To interpret the role of the state in the economy.</li> <li>5. To analyse the main elements of the market society.</li> </ul>								
	Course content				_ or S hours		AE ours		
	Organization of the class. economic thought.	Economics as a science. H	listory o		2		Juis		
	History of economic thoug	ht – part 2.			2				
	Production: technical and function.		2						
	performance.	tion. Measures of business			2				
Course content	Distribution and its role in				2				
broken down in		the reproduction process.			2				
detail by weekly class schedule (syllabus)		ms in the efficiency of the sumption and its role in the			2				
(oynabuo)	Equilibrium in macroecor				2				
	The aggregate expenditures model. Economic policy. 2								
	Economics in life. Production and technological structure of		2						
	the modern society. Different types of owners	hip.							
	the modern society. Different types of owners	hip. Capital markets. Corporate			2				

	Money, credit and	banking	system.				2	
	Economic and polit		-	vernm	ent in a		2	
	modern society.		Ū					
	International relation	ons and	open issu	les.			2	
	List of laboratory or	design e	exercises					LE or DE hours
	Introduction to the m	ain topio	cs and ter	minolo	gy			2
	Main events, individ					of economic		2
	thought.							
	Graphical and num							2
		aphical representation of costs and examples.						2
		amples for distribution. nstructing supply and demand curves.						2
								2
	Graphical represent	tation of	the mon	opoly. I	Example	es from		2
		nsumption. ain topics in macroeconomic analysis.						2
		ain topics in macroeconomic analysis. raphical and numerical examples for macroeconomics.						2
		raphical and numerical examples for macroeconomics.						
	development.	an topic				gioai		2
	Examples and disc	ussion.						2
	The role of entrepre		p in busir	ness pe	rforman	ce.		2
								2
	The role of the state	Noney and the financial system: main topics and definitions. The role of the state: liberal and keynesian ideology						2
	Discussion of the role	e of inte	rnational	trade, f	inance a	and policy		2
Format of instruction	<ul> <li>✓ lectures</li> <li>□ seminars and wo</li> <li>✓ exercises</li> <li>□ on line in entirety</li> <li>□ partial e-learning</li> <li>□ field work</li> </ul>			□ mu □ lab	epender Itimedia oratory rk with n (othe		;	
Student responsibilities	Students are obliged being able to take early able		nd 70% o	f total I	ectures.	This is the pre	erequisi	ite for
Screening student work (name the	Class attendance		Researc	h		Practical train	ing	
proportion of ECTS credits for each	Experimental work		Report			(Other	)	
activity so that the total number of	Essay		Seminar essay	•		(Other	)	
ECTS credits is equal to the ECTS	Tests	6*	Oral exa	ım	3	(Other	)	
value of the course)	Written exam	3	Project			(Other	)	
Grading and evaluating student work in class and at the final exam	Two tests are organ The second test car (60% on the written equivalent to the fina student will receive	n be take part and al exam.	en only ur d a pass g . After pas	nder the grade o	e conditi n the or	on that the firs al part of test). tests or the fir	t one is Two te	passed ests are
Required literature (available in the		Title				Number of copies in the library		ability via er media
	Reić, Z., Mihaljević I	eić, Z., Mihaljević Kosor, M., "Ekonomija", 20 konomski fakultet Split, 2011. (III. izmijenjeno					1	
library and via other media)	Ekonomski fakultet s izdanje)	Split, 20	11. (III. iz	mijenje	no			

	Harcourt College Publishers, 2nd edition						
	Ekelund, R. B. Jr. and R. F. Hebert: A History of	4					
	Economic Theory and Method, Third Edition,						
	McGrawHill,						
	Inc., 1990.						
Optional literature (at the time of submission of study programme proposal)	Galbraith, J.K.: Economics in Perspective- A Critical History, Houghton Mifflin Company, 1987 Keynes, J.M.: The General Theory of Employment, Interest and Money, Palgrave Macmillan, UK, 1936						
Quality assurance	- Evaluation of results in accordance with the above	e learning out	comes				
methods that ensure	<ul> <li>Feedback from students via surveys</li> </ul>						
the acquisition of	<ul> <li>Self-evaluation of teachers</li> </ul>						
exit competences	- Institutional and non-institutional evaluations						
Other (as the proposer wishes to add)							

NAME OF THE COURSE	PROFESSIONAL T	PROFESSIONAL TRAINING								
Code	FEXX06		Year of st	tudy		3				
Course teacher	Head of the profession training from the Fac		Credits (E	ECTS)		5				
Associate teachers	Head of the profession training from the privinstitution	ato	Type of ir (number o			L	S	AE	LE	DE
Status of the course	Elective	Elective Percentage of application of e-learning								
	CC	DURSE	DESCRI	PTION						
Course objectives	Training students for - consolidating complex eng - acquaintanc institution, - solving pract - inclusion in t - writing techr	g theore gineerin e with tl tical pro the labo	g problen he organi oblems, our marke	ns zation, v						
Course enrolment requirements and entry competences required for the course	Acquired 120 ECTS									
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul> <li>consolidate theo</li> <li>use literature, da</li> <li>select appropriat</li> </ul>	<ul> <li>Students will be able to:</li> <li>consolidate theoretical knowledge and practical skills in solving problems</li> <li>use literature, databases and other sources of information</li> <li>select appropriate methods and procedures for solving practical problems</li> <li>apply technical knowledge and skills to effectively solve engineering problems</li> </ul>							ems	
Course content broken down in detail by weekly class schedule (syllabus)	Professional training receiving institution i the head of the profe professional training	is the i n accor essional	ndepende dance wit I training f	ent work the pl rom the	c of the lan and	program	nme a	greed	betwe	
Format of instruction	<ul> <li>lectures</li> <li>seminars and wor</li> <li>exercises</li> <li>on line in entirety</li> <li>partial e-learning</li> <li>field work</li> </ul>	kshops	;	□ muli □ labo	epender timedia pratory k with m (othe	nentor	nment	5		
Student responsibilities	Independent work									
Screening student work <i>(name the</i>	Class attendance		Researc	h		Practic	al trair	ning		4
proportion of ECTS	Experimental work		Report			Indepe	ndent	work		
credits for each activity so that the total number of	Essay		Seminar essay			Report	writing	9		1
ECTS credits is equal to the ECTS	Tests		Oral exa	ım			(Other	.)	$-\top$	
value of the course)	Written exam		Project				(Other	,		
Grading and evaluating student work in class and at	professional training	Professional training is not evaluated. Students are obliged to complete professional training in accordance with the Regulation on professional training and p write a Professional training report. Professional training report is validated by								g anc

the final exam	the head of professional training from the receivir professional training from the Faculty.	ng institution a	and the head of
Required literature (available in the library and via other	Title	Number of copies in the library	Availability via other media
media)			
Optional literature (at the time of submission of study programme proposal)			
Quality assurance methods that ensure the acquisition of exit competences	<ul> <li>Questionnaire on professional training</li> <li>Self-evaluation of the head of professional training</li> <li>Student survey of the whole study programme</li> </ul>	9	
Other (as the proposer wishes to add)			

NAME OF THE COURSE	STATISTICS							
Code	FEEE03	Year of study	2					
Course teacher	Ante Rozga, Ph. D., Full Professor	Credits (ECTS)	7					
Associate teachers		Type of instruction (number of hours)	L 30	S 0	AE	LE	DE	
Status of the course	Obligatory	Percentage of	0	30	0	0		
	COURS	application of e-learning E DESCRIPTION						
Course objectives	Getting to know the imp scientific work. Independent statistical surveys. Statist	ortance of statistical met ent analysis and interpreta ical way of thinking with lent reasoning with statisti	ation of the he	<sup>i</sup> data lp of p	obtaii orobat	ned th bility th	rough neory.	
Course enrolment requirements and entry competences required for the course	None.							
Learning outcomes	<ul> <li>After completing the course, students will be able to:</li> <li>Choose and apply methods of descriptive and inferential statistics.</li> <li>Calculate and interpret indicators of descriptive statistics.</li> <li>Estimate parameters, point estimate and interval estimate.</li> <li>Calculate the accuracy and reliability of statistical estimates.</li> <li>Set up and test the statistical hypothesis.</li> <li>Connect variable correlation analysis and regression analysis.</li> </ul>							
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul> <li>Calculate and inte</li> <li>Estimate parameter</li> <li>Calculate the accurate</li> <li>Set up and test the</li> <li>Connect variable</li> </ul>	rpret indicators of descripti ers, point estimate and inte uracy and reliability of statis e statistical hypothesis. correlation analysis and reg	ive stati erval es stical es gressio	istics. timate stimate	ƏS.			
expected at the level of the course (4 to 10 learning	<ul> <li>Calculate and inte</li> <li>Estimate parameter</li> <li>Calculate the accurate</li> <li>Set up and test the</li> <li>Connect variable</li> </ul>	rpret indicators of descripti ers, point estimate and inte uracy and reliability of statis e statistical hypothesis.	ive stati erval es stical es gressio	istics. timate stimate n analy /s.	ƏS.	ŀ	AE ours	
expected at the level of the course (4 to 10 learning	<ul> <li>Calculate and inter</li> <li>Estimate parameter</li> <li>Calculate the accurst of the content</li> <li>Set up and test the content</li> <li>Connect variable of Analyze and interpreter</li> </ul>	rpret indicators of descripti ers, point estimate and inte uracy and reliability of statis e statistical hypothesis. correlation analysis and reg	ive stat erval es stical es gressio I survey	istics. timate stimate n analy /s.	es. ysis.	/ hc	AE burs 2	
expected at the level of the course (4 to 10 learning	<ul> <li>Calculate and interestimate parameters</li> <li>Estimate parameters</li> <li>Calculate the acculate the acculate the acculate the acculate the acculate the acculate and test the connect variable of a Analyze and interparameters</li> <li>Course content</li> </ul>	rpret indicators of descripti ers, point estimate and inte- uracy and reliability of statis e statistical hypothesis. correlation analysis and regoret the results of statistical ent. Grouping and Presenta ency. Measures of Variabil	ive stat erval es stical es gressio l survey	istics. timate stimate n analy /s.	es. ysis. L hours	/ hc	ours	
expected at the level of the course (4 to 10 learning	<ul> <li>Calculate and interperturbative</li> <li>Estimate parameter</li> <li>Calculate the accurst of the accurst</li></ul>	rpret indicators of descripti ers, point estimate and inte- uracy and reliability of statis e statistical hypothesis. correlation analysis and regoret the results of statistical ent. Grouping and Presenta ency. Measures of Variabil ad Kurtosis. fultiplication law. Condition	ive stat erval es stical es gressio I survey ation of lity.	istics. timate stimate n analy /s.	es. ysis. L hours 2		ours 2	
expected at the level of the course (4 to 10 learning	<ul> <li>Calculate and interestimate parameters</li> <li>Estimate parameters</li> <li>Calculate the accurs</li> <li>Set up and test the connect variable of analyze and interperson</li> <li>Course content</li> </ul> The Scales of Measurement data. Measures of Central Tenders Measures of Skewness and Probability. Addition and Measurement of the set	rpret indicators of descripti ers, point estimate and inte- uracy and reliability of statis e statistical hypothesis. correlation analysis and regoret the results of statistical ent. Grouping and Presenta ency. Measures of Variabil ad Kurtosis. fultiplication law. Condition	ive stat erval es stical es gressio I survey ation of lity.	istics. timate stimate n analy /s.	ysis. L hours 2 2	/ hc	ours 2 2	
expected at the level of the course (4 to 10 learning outcomes)	<ul> <li>Calculate and interposed</li> <li>Estimate parameter</li> <li>Calculate the accurst of the</li></ul>	rpret indicators of descripti ers, point estimate and inte uracy and reliability of statis e statistical hypothesis. correlation analysis and regoret the results of statistical ent. Grouping and Presenta ency. Measures of Variabil ad Kurtosis. fultiplication law. Condition	ive stat erval es stical es gressio <u>I survey</u> ation of lity. nal	istics. timate stimate n analy /s.	es. ysis. L hours 2 2 2		2 2 2 2	
expected at the level of the course (4 to 10 learning outcomes) Course content broken down in detail by weekly	<ul> <li>Calculate and interpole</li> <li>Estimate parameter</li> <li>Calculate the accurst of the</li></ul>	rpret indicators of descripti ers, point estimate and inte- uracy and reliability of statistical e statistical hypothesis. correlation analysis and regoret the results of statistical ent. Grouping and Presenta ency. Measures of Variabil ad Kurtosis. Aultiplication law. Condition a. s. Discrete Probability Dist	ive stat erval es stical es gressio I survey ation of lity. nal	istics. timate stimate n analy /s.	ysis. <u>L</u> hours 2 2 2 2		2 2 2 2 2 2	
expected at the level of the course (4 to 10 learning outcomes) Course content broken down in	<ul> <li>Calculate and inter- Estimate parameter</li> <li>Calculate the accurst Calculate the accurst Connect variable of Analyze and interprocession</li> <li>Course content</li> </ul> The Scales of Measurement data. The Scales of Measurement data. Measures of Central Tend Measures of Skewness and Probability. Addition and M probability. Bayes theorement Discrete Random Variable Continuous Random Variable Continuous Random Variable Continuous Random Variable Continuous Random	rpret indicators of descripti ers, point estimate and inte- uracy and reliability of statistical e statistical hypothesis. correlation analysis and regoret the results of statistical ent. Grouping and Presentation ency. Measures of Variability d Kurtosis. Aultiplication law. Condition h. s. Discrete Probability Dist able. Continuous Probability	ive stat erval es stical es gressio I survey ation of lity. nal tribution y ulation	istics. timate stimate n analy ys.	ysis. hours 2 2 2 2 2 2		2 2 2 2 2 2 2 2	
expected at the level of the course (4 to 10 learning outcomes) Course content broken down in detail by weekly class schedule	<ul> <li>Calculate and interpolytical content of the content o</li></ul>	rpret indicators of descripti ers, point estimate and inte- uracy and reliability of statistical e statistical hypothesis. correlation analysis and regoret the results of statistical ent. Grouping and Presentation ency. Measures of Variabil ad Kurtosis. fultiplication law. Condition h. is. Discrete Probability Dist able. Continuous Probability Interval Estimation of Pop	ive stat erval es stical es gressio I survey ation of lity. nal tribution y ulation	istics. timate stimate n analy ys.	ysis. hours 2 2 2 2 2 2 2 2 2		2 2 2 2 2 2 2 2 2 2	
expected at the level of the course (4 to 10 learning outcomes) Course content broken down in detail by weekly class schedule	<ul> <li>Calculate and interpolytical content of the content o</li></ul>	rpret indicators of descripti ers, point estimate and inte- uracy and reliability of statistical e statistical hypothesis. correlation analysis and regoret the results of statistical ent. Grouping and Presentation ency. Measures of Variabil ad Kurtosis. Aultiplication law. Condition h. is. Discrete Probability Dist able. Continuous Probability Interval Estimation of Pop e Mean. Hypothesis Testing ing. Sample Size Design.	ive stat erval es stical es gressio I survey ation of lity. nal ulation g of On	istics. timate stimate n analy ys.	ysis. hours 2 2 2 2 2 2 2 2 2		2 2 2 2 2 2 2 2 2 2	
expected at the level of the course (4 to 10 learning outcomes) Course content broken down in detail by weekly class schedule	<ul> <li>Calculate and interpolytical equations in the second second equation of the second equation equation of the second equation equatis equation equation equation equation equation equation equa</li></ul>	rpret indicators of descripti ers, point estimate and inte- uracy and reliability of statistical e statistical hypothesis. correlation analysis and regoret the results of statistical ent. Grouping and Presenta ency. Measures of Variabil id Kurtosis. Aultiplication law. Condition h. s. Discrete Probability Dist able. Continuous Probability Interval Estimation of Pop e Mean. Hypothesis Testing	ive statierval es stical es stical es gressio l survey ation of lity. nal tributior y ulation g of On lation wo	istics. timate stimate n analy ys.	ysis. hours 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
expected at the level of the course (4 to 10 learning outcomes) Course content broken down in detail by weekly class schedule	<ul> <li>Calculate and interpolytical content of the content o</li></ul>	rpret indicators of descripti ers, point estimate and inte- uracy and reliability of statistical estatistical hypothesis. correlation analysis and regoret the results of statistical ent. Grouping and Presenta ency. Measures of Variabil id Kurtosis. Aultiplication law. Condition h. is. Discrete Probability Dist ible. Continuous Probability Interval Estimation of Pop e Mean. Hypothesis Testing ing. Sample Size Design. erence between Two Popu g of Difference between Two ependent and Independent	ive statierval es stical es stical es gressio l survey ation of lity. nal tributior y ulation g of On lation wo	istics. timate stimate n analy ys.	ysis. hours 2 2 2 2 2 2 2 2 2 2 2 2 2		2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2	
expected at the level of the course (4 to 10 learning outcomes) Course content broken down in detail by weekly class schedule	<ul> <li>Calculate and interpolytical equations of the experimentation of the experimen</li></ul>	rpret indicators of descripti ers, point estimate and inte- uracy and reliability of statistical estatistical hypothesis. correlation analysis and regoret the results of statistical ent. Grouping and Presenta ency. Measures of Variabil id Kurtosis. Aultiplication law. Condition h. is. Discrete Probability Dist ible. Continuous Probability Interval Estimation of Pop e Mean. Hypothesis Testing ing. Sample Size Design. erence between Two Popu g of Difference between Two ependent and Independent	ive statierval es stical es stical es gressio l survey ation of lity. nal tributior y ulation g of On lation wo	istics. timate stimate n analy ys.	ysis. <u>L</u> 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2       2	

	Measures of Central	easures of Central Tendency in Time Series.					2	2	
	Second midterm exa	am		1					
Format of instruction	<ul> <li>lectures</li> <li>seminars and work</li> <li>exercises</li> <li>on line in entirety</li> <li>partial e-learning</li> <li>field work</li> </ul>	<ul> <li>seminars and workshops</li> <li>exercises</li> <li>on line in entirety</li> <li>partial e-learning</li> <li>field work</li> <li>independential</li> <li>multimedia</li> <li>aboratory</li> <li>work with n</li> <li>(oth</li> </ul>				ý			
Student responsibilities	The presence on lec	e presence on lectures in the amount of at least 70 % of the times scheduled.							
Screening student work (name the	Class attendance	2,5	Researc	:h	Pr	actical traini	ng		
proportion of ECTS	Experimental work		Report		Inc	dividual worl	٢	2,5	
credits for each activity so that the	Essay		Seminai essay		La	aboratory exe	ercises		
total number of ECTS credits is equal to the ECTS	Tests	2	Oral exa	am		eparation fo			
value of the course)	Written exam		Project			(Other)			
Grading and evaluating student work in class and at the final exam	of 2 theoretical que theoretical questions 50% - 61% sufficien 62% - 74% good, 75% - 87% very goo 88% - 100% exceller In the final exams	There are two midterms and final exams. The first midterm exam is after 7 weeks of ecturing and the second one is after the next 6 weeks. Each midterm test consists of 2 theoretical questions and 8 numerical problems and final tests consist of 4 heoretical questions and 10 numerical problems. Final grade is as follows: 50% - 61% sufficient 52% - 74% good, 75% - 87% very good, 38% - 100% excellent. n the final exams students that did not pass the midterm exams take part. The nidterm and final exams are carried out as written tests.							
		Title	)			Number of copies in the library		ability via er media	
Required literature (available in the	A.Rozga: Statistika z fakultet 2009.	za ekon	omiste. E	konom	ski	2			
library and via other media)	I.Pavlić: Statistička t knjiga. Zagreb. 1985		orimjena.	Tehnič	ka	5			
						5			
Optional literature (at the time of submission of study programme proposal)	V.Vranić: Vjerojatno:	st i stati	stika. Teł	nnička k	njiga 1971				
Quality assurance methods that ensure the acquisition of exit competences	<ul> <li>Feedback from s</li> <li>Self-evaluation c</li> </ul>	<ul> <li>Evaluation of results in accordance with the above learning outcomes</li> <li>Feedback from students via surveys</li> <li>Self-evaluation of teachers</li> <li>Institutional and non-institutional evaluations</li> </ul>							
Other (as the proposer wishes to add)									

NAME OF THE COURSE	TECHNOLOGY 1								
Code	FETE01	Year of study	2						
Course teacher	Nedjeljko Mišina, Ph.d. full professor Dražen Živković, Ph.d. full professor	Credits (ECTS)	6						
	Nikša Čatipović, Teaching	Type of instruction	L	S	AE	LE	DE		
Associate teachers	assistant, Zvonimir Dadić, Teaching assistant	(number of hours)	0	0	30	0			
Status of the course	Obligatory Percentage of application of e-learning 0								
	COURSE	E DESCRIPTION							
Course objectives	<ul> <li>Training students to:</li> <li>Understand the physical changes in welding, brazing and soldering, bonding,metallisation and thermal cutting of metal.</li> <li>Explain of the basic welding processes and their application.</li> <li>Accept the standards in welding, certification of the welding procedures and</li> </ul>								
Course enrolment requirements and entry competences required for the course	- Overview of casting defects Passed exams form: Materials 1 and Materials 2								
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	Students will be able to: - Select the appropriate we - Develop welding technolo - Calculate the preheating - Propose measures to red - Recognise the process of - Distinguish casting mould - Analyse the quality of cast - Explain the fundamental	ogy, temperature of the welded uce deformations and resi metal casting, I type, stings based on foundry de	joint, dual str	resses					
	Course content				L	ŀ	١E		
					hours	hc	ours		
	Introduction. Basic terms. A of welded joints. Power sou	urces for welding.	-		3		0		
Osumo e sentent	Deformations and residual arc. Metal transfer in the el	ectric arc.		;	3		0		
Course content broken down in	SMAW welding process. T		na.		3		0		
detail by weekly	MIG / MAG welding proces				3		0		
class schedule (syllabus)									
	Welding defects. Brazing a cutting. Oxyarc. Arcair.				3		0		
	Certification of the welding Regulations in welding. We welds. Weldability of: carbo stainless steels.	elding technology. Preheat	ing		3		0		

	First midterm exam	<u> </u>					
	Introduction to castir			astina m	odels	3	2
	Casting moulds. Dis	-		-		3	2
	Mould cores, design					3	2
	Multiple purposes m				-	3	2
	casting		01				
	Casting procedures the disposable moul moulds					3	2
	Castability. Casting t solidification process Metal foam casting.					3	2
	Second midterm ex	kam				I	
	List of laboratory or	desian e	exercises				LE
	Basic concepts of we			on of we	Iding processes.		3
	The impact of coated welding process. MIC	l electro	des on th	e stabili	ity of the electric arc	. SMAW	3
	EPP welding process						3
	TIG welding process						3
	Gas and plasma cutt						3
	First midterm exam						
	Second midterm ex	am					
Format of instruction	<ul> <li>☑ lectures</li> <li>☑ seminars and workshops</li> <li>☑ exercises</li> <li>☑ on line in entirety</li> <li>☑ partial e-learning</li> <li>□ independent assignments</li> <li>☑ multimedia</li> <li>☑ laboratory</li> <li>☑ work with mentor</li> <li>☑ (other)</li> </ul>					nts	
Student responsibilities	☐ field work The presence in lect all required laborato			es in the	e amount of at least	70%. Perfo	ormed
Screening student work (name the	Class attendance	1,5	Researc	:h	Practical tra	aining	
proportion of ECTS	Experimental work		Report		Self-directe	d learning	3,5
credits for each activity so that the total number of	Essay		Seminai essay		Laboratory e	exercises	1,0
ECTS credits is	Tests		Oral exa	ım	(Oth	er)	
equal to the ECTS value of the course)	Written exam		Project		(Oth	er)	
Grading and evaluating student work in class and at the final exam	During the semeste after 7 weeks of cla final exam students test is carried out a positive evaluation points on each test. term exams. Percentage - Rating 50% to 61% - suffici 62% to 74% - good 75% to 87% - very g 88% to 100% - exce Examinations accord	sses an have to as writte are: po The fin (3) ood (4) llent (5) ding to t	d the sed take par en exam ositive as al grade he Facult	cond aft materia lasting ssessme is base y sched	er the next 6 week al that did not pass 45 minutes. The ent of laboratory e d on the resulting p ule!	s of classes the mid-ter requiremer exercises a percentage	s. At the m. Each tts for a nd 50% on mid-

	University of Split. Students who did not pass the exam after two final exams have the last chance to pass exam in the autumn period. Overall material has to be passed at last possible exam.The exam lasts 90 minutes.							
Required literature (available in the	Title	Number of copies in the library	Availability via other media					
	N. Mišina: the author's lecture, FESB		E-learning					
library and via other media)	D. Živković, the author's lecture, FESB		E-learning					
Optional literature (at the time of submission of study programme proposal)	<ul> <li>S. Kralj, Š. Andrić: Zavarivanje i srodni postupci, FS</li> <li>M. Gojić: Tehnika spajanja i razdvajanja mater Sisak, 2003.</li> <li>D.Živković, Lijevanje metala, Interna skripta, 2006.</li> <li>Z.Bonačić, I. Budić, Osnove tehnologije kalupljenja Strojarski fakultet u Slavonskom brodu, 2001.</li> </ul>	ijala, Metalurs	ški fakultet ,					
Quality assurance methods that ensure the acquisition of exit competences	<ul> <li>Evaluation of results in accordance with the above</li> <li>Feedback from students via surveys</li> <li>Self-evaluation of teachers</li> <li>Institutional and non-institutional evaluations</li> </ul>	learning outco	omes					
Other (as the proposer wishes to add)								

NAME OF THE COURSE	TECHNOLOGY 2							
Code	FETE02	Year of study	2					
Course teacher	Dražen Bajić, Ph. D., Full Professor Branimir Lela, Ph. D., Assistant Professor	Credits (ECTS)	6					
Associate teachers	Sonja Jozić, Ph.D., Assistant Professor, Jure Krolo, Teaching assistant Mario Veić, Teaching assistant	Type of instruction (number of hours)	L 45	S 0	AE 0	LE 30	DE 0	
Status of the course	Obligatory	Percentage of application of e-learning	10%					
	COURSI	E DESCRIPTION						
Course objectives	<ul> <li>forming processes and understanding basic fe of the product without</li> </ul>	owledge of manufacturing d metal removal processes eatures of various processe and with chip removals.	,					
Course enrolment requirements and entry competences required for the course	None.							
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul> <li>Students will be able to:</li> <li>categorize metal forming processes and metal removal processes</li> <li>discuss the use of machining and metal forming technologies</li> <li>outline procedures and machines used in metal forming processing</li> <li>comment conditions of flow and flow rules</li> <li>derive expressions to calculate forces, stresses, strains and strain rates in metal forming processes</li> <li>analyse the flow of materials, friction factor, flow stress, work and power in metal forming processes</li> <li>discuss expressions to calculate the cutting speed, material removal volume, cutting force, torque, power, theoretical roughness and the main machine time for particular machining operations</li> <li>analyze the mechanics of orthogonal and oblique cutting</li> <li>discuss the mechanisms and forms of tool wear in machining</li> </ul>							
	Course content				L		٩E	
	Introduction. Classification features particular machini		es. Bas		hours 3	hc	ours /	
Course content broken down in	features particular machining procedures.     3       Parameters of cutting. Basic principles, tool and workpiece motion.     3							
detail by weekly class schedule (syllabus)	Basic tool geometry. Models of chip formation, shape and size of chip. Chips compression, compression rate. Conditions of 3 occurrence of build up edge.						/	
,	Cutting forces, power, vibra phenomena in cutting.		herma		3		/	
	Tribology of machining pro				3		/	
	Integrity of machined surfa	ce.			3		/	

	Cutting to all material	مالاهم		a a la ina ina i	~		0	1
	Cutting-tool material First midterm exam	s. High	speed ma	achinin	g.		3	/
		action of	fdoform	ation pr		Concept		
	Introduction; Classifi of plastic deformatio			alion pr	ocesses,	Concept	3	/
	Material plasticity inc		Change	s in the	material	caused	-	1
	by deformation; Anis		, enange	0 111 1110	matorial	caucca	3	/
	Deformation strain a	nd strai	n rate; Fl	ow stre	ss and flo	WC	3	/
	curves; Yield criteria							/
	Upsetting processes	; Forgin	g proces	ses; Dra	awing pro	ocesses	3	/
	Extrusion processes	; Rolling	g process	es;			3	/
		eet metal bending; Deep drawing and spinning processes;						/
		amping processes;						
		cond midterm exam						
	List of laboratory exe		acomotr	v Chin	ahanaa	Cutting to		LE hours
	Turning, Tool and wo	rkpiece	geomet	y, Chip	snapes,	Cutting-tot	JIS	2
		iterials, 1st part rning, Tool and workpiece geometry, Chip shapes, Cutting-too					ols	-
	materials, 2nd part							2
		ning and slotting, compression rate measurement						2
	Drilling, sinking, and	reaming	g. Measu	ring the	e axial foi	rce and tor	que for	2
	drilling					()		-
	Sawing, broaching. N power consumption.	/ieasurir	ng the ma	un cutti	ng force	for turning	using the	2
	Milling. Measuring th	e surfac	e roughn	ess in r	elation w	ith cutting		
	parametars.	oounae	o rougini	000 111		and outling		2
	Grinding, honing, su	perfinish	ing. Mea	suring t	he cuttin	g forces us	sing	2
	three component dyr							
	Deformation influence		aterial me	echanic	al proper	ties		2
	Material flow investig		otion hur	ing ond		uppotting		2
	Friction coefficient d Flow stress determine							2
	Testing of material fe							2
	Investigation of mate						back	
	effect determination	during b	ending					2
	☑ lectures			🗆 inde	enendent	assignme	nts	
	$\Box$ seminars and wo	rkshops			-	abbiginne	into	
Format of instruction	<ul> <li>Seminars and workshops</li> <li>⊠ multimedia</li> <li>⊠ laboratory</li> </ul>							
	□ on line in entirety				k with m	entor		
	<ul> <li>□ partial e-learning</li> <li>□ field work</li> </ul>				(othe	r)		
Chudont		4	the even	unt of o	+ la a a t 7(			ماريا م ما
Student responsibilities	The presence on lect Performed all require				t least 70	) % of the t	imes sche	equied.
Screening student								
work (name the	Class attendance	2,5	Researc	n		Practical tra	aining	
proportion of ECTS	Experimental work	0,5	Report			Individual v	vork	3
credits for each	_		Seminal	-		(2.1		
activity so that the	Essay (Oth						ner)	
total number of ECTS credits is	Tests Oral exam (Other)						ner)	
equal to the ECTS						•	•	
value of the course)	Written exam   Project   (Other)							
Grading and	There are two midte							
evaluating student	lecturing and the se							
work in class and at the final exam	that did not pass the							
	the entire exam. Th		nn, mai	anu ma	ivenh ex	anis ale Ca		as written

	Grade (in percentage) is formed according to the form Grade(%) = 0,5 (M1 + M2)	<ul> <li>2. 50 % points on each midterm exam or the final exam.</li> <li>rade (in percentage) is formed according to the formula: Grade(%) = 0,5 (M1 + M2)</li> <li>1, M2 – test results of first and second midterm exam.</li> <li>nal grade is determined according to: ercentage Grade</li> <li>0% do 61% sufficient (2)</li> <li>1% do 74% good (3)</li> <li>1% do 74% good (4)</li> <li>1% do 100% excellent (5)</li> </ul> Title Number of copies in						
			Availability via other media					
Required literature (available in the	Duplančić, I.: "Obrada deformiranjem", Sveučilište u Splitu, FESB, Split 2007.	5						
library and via other media)	Bajić, D. "Obrada odvajanjem", autorizirana predavanja.		e-learning portal					
	Ekinović S.: "Postupci obrade rezanjem", Univerzitet u Sarajevu, Mašinski fakultet u Zenici, 2003.							
Optional literature (at the time of submission of study programme proposal)	<ul> <li>Povrzanović, A. "Obrada metala deformiranjem – Sveučilište u Zagrebu, Fakultet strojarstva i brodo</li> <li>Math M., "Uvod u tehnologiju oblikovanja deformi Zagrebu, Fakultet strojarstva i brodogradnje, Zag</li> <li>Lange K.: "Lehrbuch der Umformtechnik I, II, III", Heidelberg, New York, 1974.</li> <li>Kalpakjian, S., Schmid S.R., "Manufacturing Prentice Hall, 2013.</li> <li>Grote, K.H., Antonsson, G., "Handbook of Mecha 2008.</li> </ul>	ogradnje, Zagi iranjem", Svet ireb, 1999. Springer - Ve Engineering	reb, 1996. ıčilište u rlag Berlin, & Technology",					
Quality assurance methods that ensure the acquisition of exit competences	<ul> <li>Keeping records of class attendance</li> <li>Evaluation of results in accordance with the abov</li> <li>Feedback from students via surveys</li> <li>Self-evaluation of teachers</li> <li>Feedback information from graduated students</li> </ul>	Evaluation of results in accordance with the above learning outcomes Feedback from students via surveys Self-evaluation of teachers						
Other (as the proposer wishes to add)								

NAME OF THE COURSE	TESTING OF MATERIAL	ESTING OF MATERIALS								
Code	FETE10	Year of study	3.	3.						
Course teacher	Nikša Krnić, PhD, Associate professor	Credits (ECTS)	4							
Associate teachers	Domagoj Kojundžić, Teaching Assistant	Type of instruction (number of hours)	L 30	S	AE	LE 30	DE			
Status of the course	Elective	Percentage of application of e-learning	10%							
	COURSE	E DESCRIPTION								
Course objectives	Indicate on the importance of interconnection of material type and chemical composition, structure and processing with material properties. Introduce and characterise the typical discontinuities and defects in materials as the consequence of manufacturing and service conditions. Teach the students how to obtain the information about chemical composition and about the fundamentals of metallography as an tool for structure analysis. Present the information about effective detection of surface, sub.surface and volumetric defects in materials by suitable non-destructive testing methods. Enable students to be capable of thorough understanding of NDT principles and to properly select and apply adequate method for required material and structure.									
Course enrolment requirements and entry competences required for the course	No special requirements but it is recommended that students accomplished Physics and courses dealing with materials and technology during study.									
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul> <li>classify and distinguish and products produced conditions,</li> <li>understand macro- and select the suitable met</li> <li>distinguish and charact</li> <li>know metallographic tee</li> <li>analyse and interpret m</li> <li>analyse the possibilitie</li> </ul>	<ul> <li>Successful completion of the course should prepare students to be able to:</li> <li>classify and distinguish main types of discontinuities and defects in materials and products produced as the consequence of manufacturing and service conditions,</li> <li>understand macro- and microstructure of materials</li> <li>select the suitable method and equipment for chemical composition testing,</li> <li>distinguish and characterise fracture surfaces,</li> <li>know metallographic techniques,</li> <li>analyse and interpret microstructure of basic structural alloys,</li> <li>analyse the possibilities of suitable NDT method and select among them for appropriate industrial need,</li> </ul>								
	Course content		uniqu			Lho	ours			
Course content	Introduction – dinstinct mat processing relationship. Im conditions on discontinuitie castings, parts produced by defect features and causes	pact of materials processing and defects in weldmen y plastic forming Discor	ng and ts, forg	servic ings,			4			
broken down in detail by weekly class schedule (syllabus)	Energies used in material t magnetic radiation (EM), p material interaction – atten difraction, scattering, interf Fundamentals of qualitative analysis. Equipment and m spot and spark testing, ato spectroscopy. Brief info ab surface chemical analysis classical chemical analysis	articles, mechanical vibrat uation, absorption, emissio erence e and quantitative chemica nethods for chemical comp mic and absorptive and en out other spectroscopic m (XPS, AES, PIXE, XRF)	ions. E on, ion al comp osition nission ethods and al	onergy isation oosition analy of bul bout	, sis – k or		4			

	and quality control of material chamic	composition						
	and quality control of material chemic Materialography – material structure							
	Metallographic sample preparation –							
	preparation, macro- and micro etchar							
	structural alloys. Metallographic equi							
	Basic types and features of light, elec		0					
	(SEM, TEM, HRTEM, AFM). Short		6					
	micro hardness measurements and s							
	composition.							
	Quantitative metallography and softw	ares for grain size determination.						
	X-ray diffraction.	_						
	Fractography – broken surfaces anal	yse and features of main fracture	2					
	types.		2					
	Principles and methods of non-destru							
	reliability of NDT. Main industrial and							
	Features of and execution of naked e	eye and instrumented visual						
	testing. Equipment for VT.							
	Principles, features, execution and equipment for penetrant dye and penetrant fluorescent testing.							
	penetrant nuorescent testing.		4					
	Physical background and characteristics of magnetic and electro-							
	magnetic testing – magnetic particle, magnetic leakage, Barkhausen							
		method and eddy current testing. Magnetisation equipment and						
	inspection systems.	gnetisation equipment and						
	Physical background, features, method	ods and techniques of ultrasonic						
	material testing – echo, TR, TOFD, "							
	technique. Application of ultrasonics							
	properties. Equipment for UT and inspection systems.							
	Physical background, features, method							
	radiographic x-ray and gamma-ray te	sting. Microfocus x-ray and						
	computer tomography. Equipment for							
	Other NDT methods – thermal metho	ods, acoustic emission, leak testing	2					
	NDT rules and specifications.							
	List of laboratory exercises		LE hours					
	Practical demonstration of metallic sa	mple preparation for metallography	4					
	and light optical microscopy.							
	Practical analysis of microstructure or		2					
	Practical preparation of weld metallog		3					
	affected zone evaluation by LOM and		Ũ					
	Characterisation of fatigue, brittle and	ductile fracture on stereo light	2					
	microscope.							
	Analysis and determination of grain si		2					
	Practical demonstration of dye and flu		3					
	Practical demonstration of wet and dr	y magnetic particle testing. Colored	3					
	and fluorescent MP inspection. Practical ultrasonic inspection by echo	and TP mothod Motal thickness						
	measurement by ultrasound.		4					
	Demonstration od radiograšhic testing	a outcome Analysis of weld defects						
	by aid of radiograms.	y outcome. Analysis of weld deletts	3					
	An educational and professional excu	rsion and visit to a company						
			(3)					
	dealing with NDT or chemical composition analysis (an additional but nonmandatory learning opportunity for students).							
	$\boxtimes$ lectures	□ independent assignments						
		⊠ multimedia						
Format of instruction								
Format of instruction		-						
Format of instruction	<ul> <li>☑ exercises</li> <li>□ on line in entirety</li> <li>□ partial e-learning</li> </ul>	$\square$ work with mentor $\square$ (other)						

	□ field work								
Student responsibilities	Mandatory minimum	attenda	ance: 70 9	% for th	e lectur	es and 85 % fo	or lab exe	rcises.	
Screening student work (name the	Class attendance	1,5	Research P			Practical traini	Practical training		
proportion of ECTS	Experimental work	0,5	Report			Individual wor	k	1	
credits for each activity so that the total number of	Essay		Seminar essay 1 La		Laboratory ex	ercises			
ECTS credits is	Tests		Oral exa	m		(Other)			
equal to the ECTS value of the course)					(Other)				
Grading and evaluating student work in class and at the final exam	oral examination) a minimum level of ad Following grading so 61 % successfully an to 74 %, grade (4)	mester (plus short oral examination) or by the regular written exam (and a short al examination) after complete execution of lectures and exercises. Required nimum level of adopted knowledge which students have to satisfy is 50 %. Ilowing grading scheme is to be applied: grade (2) or sufficient require 50 % to % successfully and satisfactorily adopted knowledge, grade (3) or good for 62 % 74 %, grade (4) or very good for 75 % to 87 % and grade (5) or excellent is ministered for 88 % and more. Seminar can improve the final grade.							
	Title					Number of copies in the library	Availab other i	•	
Required literature (available in the library and via other media)	ASM Handbook: Me Microstructures, Vol. ASM Handbook: Fai Vol. 11, 2002. ASM Metals Handbo and Quality Control, N. Krnić: Ispitivanja Krstelj, V.: Ultrazvuč FSB, 2003.	<u>9, 2004</u> lure Ana ook: Nor Vol. 17 materija na kont	4. alysis and ndestructi , 1989. Ila, hando rola, selec	ve Eval uts cted ch	apters,				
Optional literature (at the time of submission of study programme proposal)	Other publications in dealing with character Specifications of pro Shipping	erisatior	n and non	-destru	ctive te	sting of engine	ering mate	erials	
Quality assurance methods that ensure the acquisition of exit competences Other (as the proposer wishes to add)	<ul> <li>Encourage stude</li> <li>Evaluation of res</li> <li>Feedback from s</li> <li>Self-evaluation of</li> </ul>	sults in a students	accordano s via surve	ce with				t	

NAME OF THE COURSE	THERMODYNAMICS							
Code	FESE05	Year of study	3					
Course teacher	Frano Barbir, Ph. D., Full Professor	Credits (ECTS)	6					
Associate teachers	Ivan Tolj, Ph. D., Teaching assistant	Type of instruction (number of hours)	L 45	S 0	AE 30	LE 0	DE 0	
Status of the course	Obligatory	Percentage of application of e-learning						
	COURSI	E DESCRIPTION						
Course objectives		asic concepts and laws of epts and laws of				oroces	ses	
Course enrolment requirements and entry competences required for the course	Mathematics 2							
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	Students will be able to: explain the basic concepts and laws of thermodynamics apply the concepts and laws of thermodynamics to the different types of a simple technical energy process calculate the mass balance and simple balance of different types of energy flows calculate the efficiency of the process and energy systems link effects of all studied processes by changes in the environment							
	Course content				L or S hours		AE burs	
	The subject of thermodyna heat) and pressure, volume functions. State equation of	e and temperature as state		,	3		2	
	Two ways to express quan ideal gases. Thermal expa				3		2	
	The first law of thermodyna connection with measurabl equation of ideal gas. Appl	s.	3		2			
Course content broken down in	Isobaric, isochoric, isothern Polytropic processes. Cycl Carnot cycle. Internal and	e processes. Otto, Diesel	and	es.	3		2	
detail by weekly class schedule (syllabus)	The second law of thermood second law. The analytical equilibrium processes. Con state functions of ideal gas second law of nonequilibriu	ole	3		2			
	Flow processes. Enthalpy thermodynamics for flow p flow process. Damping. Ty heat exchange without wor without heat.	rk	3		2			
	without heat.Real gases – p-V diagrams instead of the state equationMolière h-s diagram and T-s diagram. Using charts and tables.Rankine Clausius cycle with and without steam overheating.The concept of regeneration, efficiency and simplified							

	schemes of steam -								
	Knowledge test – firs	st midte	rm exam				3		
	Cooling power plants The main properties					mance.	3		2
	Humid air and h-x di					ses.	3		2
	Fuel combustion. Nu	imerical	characte	rizatior	of the f	uel and	3		2
	combustion: heat of								
	temperature and igni								
	amount. Determinati the combustion prod		excess		e compc				
	Heat transfer: three		t mechan	isms. H	leat con	duction.	3		2
	Convective heat tran	Convective heat transfer. The physical mechanism of							2
	convection, heat trar					The			
	process of determining the heat transfer coefficient Heat transfer by radiation. The term black body and "black"								
							3		2
	radiation. Overall heat transfer coefficient, ribs surface. Heat exchangers. Heat exchanger calculations.								
	Knowledge test – se	cond m	idterm ex	am			3		
	☑ lectures			□ inde	nender	t assignme	nts		
	seminars and wor	rkshops			timedia	it assignine	into		
Format of instruction									
	□ on line in entirety								
	□ partial e-learning □ field work (other)								
Student									
responsibilities									
Screening student	Class attendance	2	Researc	h		Practical traini			
work (name the	Experimental work		Report In		Individual work		3		
activity so that the total number of	Essay		Seminai essay	•		(Oth	ner)		
ECTS credits is	Tests	1	Oral exa	am		(Other)			
equal to the ECTS value of the course)	Written exam		Project			(Oth	,		
	During semester there are two midterm exams. Upon completion of the semester the first and second final exam are held as well as corrective and commission exams. The first midterm exam is after 7 weeks of lecturing and the second one is after the next 6 weeks. The midterms are carried out as written tests. The requirement for passing grade is 50 % points on each midterm exam. Grade (in percentage) is formed according to the formula:								
Grading and evaluating student	Grade(%) = (M1+M2)/2								
work in class and at	M1, M2 – test results	5							
the final exam	The final grade is de grade is determined points score mark (2 mark (4), from 88%	l accorc 2), from	ling to th 62% to	e point 74% m	s as fol	lows: from	50%	to 61	1% of the
	Under Article 71 of t forms of teaching an meet these requirem	d attend	d lectures	and ex	ercises	at least 709	%. If s		
Required literature						Number		vaila	bility via
(available in the		Title	•			copies i			r media

library and via other		the library				
media)	O. Fabris, Osnove Inženjerske termodinamike,					
	Pomorski fakultet Dubrovnik, 1994					
Optional literature (at the time of submission of study programme proposal)	<ul> <li>I. Ninić, Uvod u termodinamiku i njene tehničke primjene, Sveučilište u Splitu, 2007.</li> <li>F. Bošnjaković, Nauka o toplini I dio, Školska knjiga Zagreb, 1976.</li> </ul>					
Quality assurance	- Evaluation of results in accordance with the above	e learning out	comes			
methods that ensure the acquisition of	<ul> <li>Feedback from students via surveys</li> <li>Calk evaluation of too shore</li> </ul>					
exit competences - Self-evaluation of teachers Institutional and non-institutional evaluations						
Other (as the						
proposer wishes to add)						

NAME OF THE COURSE	TRIBOLOGY										
Code	FETC11	Year of study	3								
Course teacher	Dražen Živković, Ph. D., Full Professor	Credits (ECTS)	4								
Associate teachers		Type of instruction (number of hours)	L 30	S 0	AE 30	LE 0	DE 0				
Status of the course	elective	Percentage of application of e-learning	0				8				
	COURS	E DESCRIPTION									
Course objectives	<ul> <li>Training students for:</li> <li>Introduction to basic tribo</li> <li>Basic types of wear of ma process.</li> <li>The basic methods of frict selectin for tribological participation</li> </ul>	aterials and construction, a	as well a			-					
Course enrolment requirements and entry competences required for the course		selectin for tribological pairs. assed exams: Materials 1 Materials 2									
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	Students will be able to: Classify the fundamental tribological wear mechanisms Describe the wear types of materials Assess tribological properties of materials Characterize the tribological mechanisms of corrosion and material damage Collect data to analyze the tribological wear Choose the type of lubricant due to the mechanisms of wear and tear										
	Course content		L hours	hc	ours						
	Introduction to tribology, hi tribology in industrial produ	of	2								
	Surfaces: physical and che surface (conformal) contac contact		2								
	Systematic approach to tril friction (slip, rolling)		2								
Course content	The wear mechanisms I: a adhesion wear resistance				2						
broken down in detail by weekly	The wear mechanisms II: s fatigue resistance and surf	ace protection	wear,		3						
class schedule	Wear processes, wear mo				3						
(syllabus)	Tribological control - the m	aterials selectin of tribolog	lical pai	ts	2						
	First midterm exam										
	Distribution of wear cases wear, fretting		-		2						
	Distribution of wear cases erosion, cavitation erosion			S,	2						
	Lubricants, the role of lubri hydrodynamic lubrication				2						
	Elasto-hydrodynamic lubric lubrication			е	2						
	Conventional and new tribe	ological materials (ceramic	cs,		2						

	diamonds, diamond	films co	omposite	coating	)				
	Identification of the b					_			
	processing, the basi			eyetein		2			
	Second midterm ex		,						
	AV content						AV hours		
	Tribological losses in	the ma	intenance	e of ma	chines		2		
	Analysis of tribologic						3		
	Selection of wear res	istant m	aterials				2		
		imation of the relative resistance to abrasive wear mechanism based							
	on the analysis of mi	crostruc	tures				2		
		ological system: cereals - tubular transport ological processes at the basic elements of the cement production							
	l ribological processe plant	es at the	e basic ele	ements	of the cement prod	luction	2		
	New processes for s	urface n	nodifying				2		
	First midterm exam								
	Testing methodology			cs cont	act (type metal-poly	ymer)	23		
		ing wear laboratory test methods							
	Tribological mechani		large low	-speed	diesel engine		3		
	Second midterm ex	am							
	⊠ lectures				ependent assignme	onts			
	$\Box$ seminars and wo	rkshops			timedia	1113			
Format of instruction	⊠ exercises								
Format of instruction	□ on line in entirety				•				
	□ partial e-learning								
	☐ field work				(other)				
Student									
responsibilities									
Screening student work (name the	Class attendance	1	Researc	:h	Practical tr	aining			
proportion of ECTS credits for each	Experimental work		Report		Self-directe	ed learning	g 2		
activity so that the	Essay		Semina essay	•	AV		1		
total number of ECTS credits is	Tests		Oral exa	ım	(Oth	ner)			
equal to the ECTS value of the course)	Written exam		Project		(Oth	ner)			
Grading and	During the semester there will be two mid-term exams (tests). The first mid-term, after 7 weeks of classes and the second after the next 6 weeks of classes. At the final exam students have to take part material that did not pass the mid-term. Each test is carried out as written exam lasting 45 minutes. Usually it consists of three tasks. The requirements for a positive evaluation are: positive assessment of exercises and 50% points on each test. The final grade is based on the resulting percentage on mid-term exams.								
evaluating student work in class and at the final exam	Percentage - Rating 50% to 61% - sufficient (2) 62% to 74% - good (3) 75% to 87% - very good (4) 88% to 100% - excellent (5) Examinations according to the Faculty schedule! The final grade is determined after the second final exam. Students who did no						ho did not		
	pass the exam after autumn period whe	r two fi	nal exam	is have	the last chance t	o pass ex	am in the		

	passed at last possible exam. The written exam collasts 90 minutes.	onsists of six	tasks. The exam
(available in the library and via other media) Optional literature (at the time of	Title	Number of copies in the library	Availability via other media
	D. Živković: the author's lectures, FESB		E-learning portal
	V. Ivušić. "Tribologija", HDMT, Zagreb, 1998	I	I
Quality assurance methods that ensure the acquisition of exit competences	<ul> <li>Evaluation of results in accordance with the above</li> <li>Feedback from students via surveys</li> <li>Self-evaluation of teachers</li> <li>Institutional and non-institutional evaluations</li> </ul>	learning outco	omes
Other (as the proposer wishes to add)			

NAME OF THE COURSE	WORK AND TIME STUD	Y					
Code	FETE03	Year of study	3.				
Course teacher	Boženko Bilić, Ph.D. Full Professor	Credits (ECTS)	4				
Associate teachers	Nikola Gjeldum, Ph.D. Assistant Professor	Type of instruction (number of hours)	L 30	S 0	AE 15	LE 15	DE 0
Status of the course	Obligatory	Percentage of application of e-learning	0		1		
	COURSI	E DESCRIPTION					
Course objectives	Teach students how to u improvement work. Goals: reducing the fatigure and increasing productivity	e of workers, increase sat					
Course enrolment requirements and entry competences required for the course	Completed the first year of in the subject Probability a		npeten	cies a	nd ski	lls acq	uired
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	Students will be able to: Time keeping of production process duration Determine Performance rating Use of statistical tools and methods in the analysis, comparison and validatior of measurement results Determine the time standard for the performance of work tasks Collect data and analyze losses at work Collect the data necessary to improve the work on the workplace						
	Course content				L		۶Ε
	The second second				hours	hc	ours
	The science of work, organ production. Introduction in		Ization	or	2		0
	Organizational structure.	industrial engineering.			2		0
	Introduction in Work and Time Study. MANUFACTURING AND PRODUCTION PROCESS: Definition of production system, production and manufacturing process. The basic elements of manufacturing processes.						0
	STUDY AND ANALYSIS C Components of working tin	DF TIME: Time standard. ne.			2		1
Course content broken down in detail by weekly class schedule	STUDY AND ANALYSIS C the production (working) tir study, recording by camera systems, formulas for mac	me: recording (stopwatch t a), predetermined motion t	ime	3	2		2
(syllabus)	STUDY AND ANALYSIS C data of time and performar execution of standard time	1	2		2		
	STUDY AND ANALYSIS C		ng.		2		2
	First midterm exam. STUDY AND ANALYSIS C multiple machines.	DF TIME: The work of a wo	orker or	1	2		2
	STUDY AND ANALYSIS C work. Analysis of time loss current observations.		2		2		
	IMPROVEMENT OF WOR the current state. Analysis			ng	4		2

	ne better work methods. Implementation of better work								
	method. The impact of work a	and time		. the ee	onomio	offooto			
	the scale of busines					enects -	1		0
	Basics of manufactu			enterpri	SE.		3		0
	Hazards at work.	ning erg	onony.				1		0
	Second midterm exa	m					1		0
	List of laboratory exe								hours
	Timekeeping error.	ercises						LE	1
	Flow method of reco	rding tir	no						2
	Feedback method of								2
	Performance rating.	riecoru	ng une						3
	Standard time calcul	ation							2
	Simultaneous work of		r on mult	iple ma	chines				3
	$\boxtimes$ lectures				ornines.				0
	$\Box$ seminars and wo	rkehone		🗆 inde	epender	nt assignme	nts		
	$\boxtimes$ exercises	rsnops		🛛 mul	timedia				
Format of instruction				🛛 labo	oratory				
	□ on line in entirety			□ wor	k with m	nentor			
	□ partial e-learning			□ (other)					
	☐ field work				``				
Student		he presence on lectures and exercises in the amount of at least 70 % of							
responsibilities	scheduled. Perform	all labor	atory exe	ercises.					
Screening student	Class attendance	1,5	Researc	:h		Practical tra	aining		
work (name the proportion of ECTS credits for each activity so that the	Experimental work		Report			Individual work			2
	Essay		Seminar essay			Laboratory	exercises	5	0,5
total number of ECTS credits is	Tests	0				Preparation			0
equal to the ECTS				laboratory ex			exercises		
value of the course)	Written exam	0	Project		1	(Oth	,		
	During semester there are two midterm exams. The first midterm exam is aft weeks of lecturing and the second one is after the next 6 weeks. The student take the first midterm exam if he/she regularly attended classes. Requirements access to the second midterm exam are: regularly attended classes and at le 25% of points achieved at the first midterm. Midterm exams are conducted in written form. They consist of theoretical quest and numerical problems. The teacher reserves the right to hold a midterm exam oral form. The requirement for passing grade represents minimal 50% points								ent can ents for at least estions xam in
			Grade (9	%) = 0.5	5(M1 + N	M2)			
Grading and evaluating student work in class and at the final exam	Grade (%) = 0,5(M1 + M2) M1 – first midterm grade (%), i.e. percentage points achieved on the first midterm M2 – second midterm grade (%), i.e. percentage points achieved on the second midterm Requirement for access to the final exams is regularly attended classes. In the first two final exams students that did not pass at least one of the midterm exams take part. In the third and fourth final exams students take the whole exam regardless results of midterm exams. Final exams are conducted in written form. They consist of theoretical questions and numerical problems. The teacher reserves the right to hold a final exams in oral form. The requirement for passing grade is positive assessment in exam. Positive assessment represents minimal 50% points on final exam. Grade (%): Final mark: 50% - 60% sufficient (2)								

	61% - 75%good (3)76% - 90%very good (4)91% - 100%excellent (5)Grade (%) is average points achieved on midtpercentage or number of points achieved on thepercentage.		
	Title	Number of copies in the library	Availability via other media
Required literature (available in the	D. Taboršak: Studij rada, Orgadata, Zagreb, 1994. A. Polajnar: Študij dela, Univerza v Mariboru, Fakulteta za strojništvo, 1999.	5 0	
library and via other media)	*** "Inženjerski priručnik 4 -sv. 3: Proizvodno strojarstvo", str. 131-194, Školska knjiga, Zagreb 2002.	0	
	M. Car, M. Krznar, K. Šimon: Studij rada – zbirka zadataka i rješenja, Liber, Zagreb, 1983.	0	
Optional literature (at the time of submission of study programme proposal)	<ul> <li>B. Bilić: Predavanja postavljena na e-learning portalu</li> <li>B. Bilić: Studij rada i vremena: formule, dijagrami obrasci, FESB, Split, 2010.</li> </ul>		
Quality assurance methods that ensure the acquisition of exit competences	<ul> <li>Keeping records of the attendance of students</li> <li>Annual evaluation of results in accordance with the above learning outcomes</li> <li>Feedback from students via surveys</li> <li>Self-evaluation of teachers</li> </ul>		
Other (as the proposer wishes to add)			

## 3. STUDY PERFORMANCE CONDITIONS

## 3.1. Places of the study performance

Buildings of the constituent part (name existing, under construction and planned buildings)	
Identification of building	FESB
Location of building	R. Boškovića 32
Year of completion	1980. phase 1, 2008. phase 2
Total square area in m <sup>2</sup>	29.477

## 3.2. List of teachers and associate teachers

AccountingBranka Ramljak, Ph. D., Full Professor Ivana Perica, Teaching assistantBusiness Systems OrganisationIvica Veža, Ph. D., Full Professor, Ivan Matić, Ph. D., Assistant Professor Nikola Gjeldum, Ph. D., Assistant ProfessorCommunication Skills in EnglishMirjana M. Kovač, Ph.D., Assistant Professor Nina Sirković, Ph.D., Assistant Professor Igor Pehnec, Ph. D., Full Professor Iva Marinić- Kragić, Teaching AssistantComputer Aided Design 1Gojko Magazinović, Ph. D., Full Professor Ivan Pivac, Teaching Assistant Nikola Gjeldum, Ph. D. Assistant Professor Ivan Pivac, Teaching AssistantDesign for ManufacturingXikola Gjeldum, Ph. D., Full Professor Lovre Krstulović-Opara, Ph. D., Full Professor Lovre Krstulović -Opara, Ph. D., Full Professor Nedjeljka Grulović – Plavljanić, Teaching Assistant Ivan Krolo, Teaching AssistantElectrical EngineeringŽeljko Domazet, Ph. D., Assistant Professor Nedjeljka Grulović – Plavljanić, Teaching Assistant Ivan Krolo, Teaching AssistantElectrical EngineeringŽeljko Domazet, Ph. D., Full Professor Nerdjeljka Grulović – Plavljanić, Teaching Assistant Ivan Krolo, Teaching AssistantElectrical EngineeringŽeljko Domazet, Ph.D., Full Professor Niro Bugarin, Ph.D., Assistant Professor Nerdjeljka Grulović – Plavljanić, Teaching Assistant Ivan Krolo, Teaching Assistant	
Varia Perica, Teaching assistantBusiness Systems OrganisationIvica Veža, Ph. D., Full Professor, Ivan Matić, Ph. D., Assistant Professor Nikola Gjeldum, Ph. D., Assistant ProfessorCommunication Skills in EnglishMirjana M. Kovač, Ph.D., Assistant Professor Mirjana M. Kovač, Ph.D., Assistant ProfessorComputer- Aided AnalysisDamir Vučina, Ph. D., Full Professor Igor Pehnec, Ph. D., Assistant Professor Igor Pehnec, Ph. D., Assistant Professor Ivo Marinić- Kragić, Teaching AssistantComputer Aided Design 1Gojko Magazinović, Ph. D., Full Professor Ivan Pivac, Teaching AssistantDesign for ManufacturingNikola Gjeldum, Ph. D. Assistant Professor Ivan Pivac, Teaching AssistantDesign of Industrial ProductsŽeljko Domazet, Ph. D., Full Professor Lovre Krstulović-Opara, Ph. D., Full Professor Ivica Jurić-Grgić, Ph. D., Associate Professor Nedjeljka Grulović – Plavljanić, Teaching AssistantElectrical EngineeringŽeljko Domazet, Ph. D., Full Professor Nedjeljka Grulović – Plavljanić, Teaching Assistant Ivan Krolo, Teaching Assistant	
Business Systems OrganisationIvan Matić, Ph. D., Assistant Professor Nikola Gjeldum, Ph. D., Assistant ProfessorCommunication Skills in EnglishMirjana M. Kovač, Ph.D., Assistant Professor Nina Sirković, Ph.D., Assistant Professor Igor Pehnec, Ph. D., Assistant Professor Igor Pehnec, Ph. D., Assistant Professor Igor Pehnec, Ph. D., Assistant Professor Ivo Marinić- Kragić, Teaching AssistantComputer Aided Design 1Gojko Magazinović, Ph. D., Full Professor Ivan Pivac, Teaching AssistantDesign for ManufacturingNikola Gjeldum, Ph. D. Assistant Professor Ivan Pivac, Teaching AssistantDesign of Industrial ProductsŽeljko Domazet, Ph. D., Full Professor Lovre Krstulović-Opara, Ph. D., Full Professor Ivica Jurić-Grgić, Ph. D., Associate Professor Nedjeljka Grulović – Plavljanić, Teaching AssistantElectrical EngineeringŽeljko Domazet, Ph. D., Full Professor Nedjeljka Grulović – Plavljanić, Teaching AssistantZeljko Domazet, Ph. D., Full Professor Nedjeljka Grulović – Plavljanić, Teaching Assistant Ivan Krolo, Teaching Assistant	
Nikola Gjeldum, Ph. D., Assistant ProfessorCommunication Skills in EnglishMirjana M. Kovač, Ph.D., Assistant Professor Nina Sirković, Ph.D., Assistant Professor Igor Pehnec, Ph. D., Assistant Professor Igor Pehnec, Ph. D., Assistant Professor Igor Pehnec, Ph. D., Assistant Professor Ivo Marinić- Kragić, Teaching AssistantComputer Aided Design 1Gojko Magazinović, Ph. D., Full Professor Ivan Pivac, Teaching AssistantDesign for ManufacturingNikola Gjeldum, Ph. D. Assistant Professor Ivan Pivac, Teaching AssistantDesign of Industrial ProductsŽeljko Domazet, Ph. D., Full Professor Lovre Krstulović-Opara, Ph. D., Full Professor Lovre Krstulović – Plavljanić, Teaching AssistantElectrical EngineeringIvica Jurić-Grgić, Ph. D., Assistant Professor Nedjeljka Grulović – Plavljanić, Teaching AssistantŽeljko Domazet, Ph.D., Full Professor Nedjeljka Grulović – Plavljanić, Teaching Assistant Ivan Krolo, Teaching AssistantŽeljko Domazet, Ph.D., Full Professor Nedjeljka Grulović – Plavljanić, Teaching Assistant Ivan Krolo, Teaching Assistant	
Communication Skills in EnglishMirjana M. Kovač, Ph.D., Assistant Professor Nina Sirković, Ph.D., Assistant ProfessorComputer- Aided AnalysisDamir Vučina, Ph. D., Full Professor Igor Pehnec, Ph. D., Assistant Professor Igor Pehnec, Ph. D., Assistant Professor Ivo Marinić- Kragić, Teaching AssistantComputer Aided Design 1Gojko Magazinović, Ph. D., Full Professor Ivan Pivac, Teaching AssistantDesign for ManufacturingNikola Gjeldum, Ph. D. Assistant Professor Marina Crnjac, Teaching AssistantDesign of Industrial ProductsŽeljko Domazet, Ph. D., Full Professor Lovre Krstulović-Opara, Ph. D., Full Professor Nedjeljka Grulović – Plavljanić, Teaching Assistant Ivan Krolo, Teaching AssistantElectrical EngineeringŽeljko Domazet, Ph. D., Full Professor Nedjeljka Grulović – Plavljanić, Teaching Assistant Ivan Krolo, Teaching AssistantŽeljko Domazet, Ph. D., Full Professor Nedjeljka Grulović – Plavljanić, Teaching Assistant Ivan Krolo, Teaching Assistant	
Communication Skills in EnglishNina Sirković, Ph.D., Assistant ProfessorComputer- Aided AnalysisDamir Vučina, Ph. D., Full ProfessorIgor Pehnec, Ph. D., Assistant ProfessorIvo Marinić- Kragić, Teaching AssistantComputer Aided Design 1Gojko Magazinović, Ph. D., Full ProfessorIvan Pivac, Teaching AssistantNikola Gjeldum, Ph. D. Assistant ProfessorDesign for ManufacturingNikola Gjeldum, Ph. D. Assistant ProfessorDesign of Industrial ProductsŽeljko Domazet, Ph. D., Full ProfessorLovre Krstulović-Opara, Ph. D., Full ProfessorIvica Jurić-Grgić, Ph. D., Associate ProfessorElectrical EngineeringIvica Jurić-Grgić, Ph. D., Associate ProfessorVen Krstulović – Plavljanić, TeachingAssistantZeljko Domazet, Ph. D., Full ProfessorIvica Jurić-Grgić, Ph. D., Associate ProfessorNedjeljka Grulović – Plavljanić, TeachingAssistantZeljko Domazet, Ph. D., Full ProfessorVen Krolo, Teaching AssistantIvan Krolo, Teaching AssistantIvan Krolo, Teaching AssistantIvan Krolo, Teaching AssistantIvan Krolo, Teaching Assistant	
Nina Sirković, Ph.D., Assistant ProfessorComputer- Aided AnalysisDamir Vučina, Ph. D., Full ProfessorIgor Pehnec, Ph. D., Assistant ProfessorIgor Pehnec, Ph. D., Assistant ProfessorIvo Marinić- Kragić, Teaching AssistantGojko Magazinović, Ph. D., Full ProfessorComputer Aided Design 1Gojko Magazinović, Ph. D., Full ProfessorDesign for ManufacturingNikola Gjeldum, Ph. D. Assistant ProfessorDesign of Industrial ProductsZeljko Domazet, Ph. D., Full ProfessorLovre Krstulović-Opara, Ph. D., Full ProfessorLovre Krstulović-Opara, Ph. D., Full ProfessorIvica Jurić-Grgić, Ph. D., Associate ProfessorNedjeljka Grulović – Plavljanić, TeachingAssistantIvan Krolo, Teaching AssistantZeljko Domazet, Ph.D., Full ProfessorNedjeljka Grulović – Plavljanić, TeachingAssistantIvan Krolo, Teaching AssistantZeljko Domazet, Ph.D., Full ProfessorNedjeljka Grulović – Plavljanić, TeachingAssistantIvan Krolo, Teaching AssistantZeljko Domazet, Ph.D., Full ProfessorNedjeljka Grulović – Plavljanić, TeachingAssistantIvan Krolo, Teaching AssistantZeljko Domazet, Ph.D., Full ProfessorNedjeljka Grulović – Plavljanić, TeachingAssistantIvan Krolo, Teaching AssistantZeljko Domazet, Ph.D., Full ProfessorKrolo, Teaching Assistant	
Computer- Aided AnalysisIgor Pehnec, Ph. D., Assistant Professor Ivo Marinić- Kragić, Teaching AssistantComputer Aided Design 1Gojko Magazinović, Ph. D., Full Professor Ivan Pivac, Teaching AssistantDesign for ManufacturingNikola Gjeldum, Ph. D. Assistant Professor Marina Crnjac, Teaching AssistantDesign of Industrial ProductsŽeljko Domazet, Ph. D., Full Professor Lovre Krstulović-Opara, Ph. D., Full Professor Nedjeljka Grulović – Plavljanić, Teaching AssistantElectrical EngineeringŽeljko Domazet, Ph. D., Associate Professor Nedjeljka Grulović – Plavljanić, Teaching Assistant Ivan Krolo, Teaching AssistantŽeljko Domazet, Ph.D., Full Professor Nedjeljka Grulović – Plavljanić, Teaching Assistant Ivan Krolo, Teaching Assistant	
Ivo Marinić- Kragić, Teaching AssistantComputer Aided Design 1Gojko Magazinović, Ph. D., Full Professor Ivan Pivac, Teaching AssistantDesign for ManufacturingNikola Gjeldum, Ph. D. Assistant Professor Marina Crnjac, Teaching Assistant Ivan Peko, Teaching AssistantDesign of Industrial ProductsŽeljko Domazet, Ph. D., Full Professor Lovre Krstulović-Opara, Ph. D., Full Professor Nedjeljka Grulović – Plavljanić, Teaching AssistantElectrical EngineeringIvica Jurić-Grgić, Ph. D., Associate Professor Nedjeljka Grulović – Plavljanić, Teaching Assistant Ivan Krolo, Teaching AssistantŽeljko Domazet, Ph.D., Full Professor Nedjeljka Grulović – Plavljanić, Teaching Assistant Ivan Krolo, Teaching Assistant	
Computer Aided Design 1Gojko Magazinović, Ph. D., Full Professor Ivan Pivac, Teaching AssistantDesign for ManufacturingNikola Gjeldum, Ph. D. Assistant Professor Marina Crnjac, Teaching Assistant Ivan Peko, Teaching AssistantDesign of Industrial ProductsŽeljko Domazet, Ph. D., Full Professor Lovre Krstulović-Opara, Ph. D., Full Professor Nedjeljka Grulović – Plavljanić, Teaching Assistant Ivan Krolo, Teaching AssistantElectrical EngineeringŽeljko Domazet, Ph. D., Associate Professor Nedjeljka Grulović – Plavljanić, Teaching Assistant Ivan Krolo, Teaching Assistant	
Computer Alded Design 1Ivan Pivac, Teaching AssistantIvan Pivac, Teaching AssistantNikola Gjeldum, Ph. D. Assistant ProfessorDesign for ManufacturingMarina Crnjac, Teaching AssistantIvan Peko, Teaching AssistantIvan Peko, Teaching AssistantDesign of Industrial ProductsŽeljko Domazet, Ph. D., Full ProfessorLovre Krstulović-Opara, Ph. D., Full ProfessorIvica Jurić-Grgić, Ph. D., Associate ProfessorElectrical EngineeringIvica Jurić-Grgić, Ph. D., Associate ProfessorVica Jurić-Grgić, Ph. D., Full ProfessorNedjeljka Grulović – Plavljanić, TeachingAssistantIvan Krolo, Teaching AssistantŽeljko Domazet, Ph.D., Full ProfessorNedjeljka Grulović – Plavljanić, TeachingAssistantIvan Krolo, Teaching AssistantIvan Krolo, Teaching AssistantŽeljko Domazet, Ph.D., Full ProfessorNico Bugarin, Ph.D., Assistant Professor, IvanKrolo, Teaching Assistant	
Ivan Pivac, Teaching Assistant         Nikola Gjeldum, Ph. D. Assistant Professor         Design for Manufacturing       Nikola Gjeldum, Ph. D. Assistant Professor         Design of Industrial Products       Željko Domazet, Ph. D., Full Professor         Lovre Krstulović-Opara, Ph. D., Full Professor         Ivan Peko, Teaching Assistant         Van Peko, Teaching Assistant         Van Peko, Teaching Assistant         Ivan Peko, Teaching Assistant         Vere Krstulović-Opara, Ph. D., Full Professor         Ivica Jurić-Grgić, Ph. D., Associate Professor         Nedjeljka Grulović – Plavljanić, Teaching         Assistant         Ivan Krolo, Teaching Assistant         Željko Domazet, Ph.D., Full Professor         Miro Bugarin, Ph.D., Assistant Professor, Ivan	
Design for ManufacturingMarina Crnjac, Teaching Assistant Ivan Peko, Teaching AssistantDesign of Industrial ProductsŽeljko Domazet, Ph. D., Full Professor Lovre Krstulović-Opara, Ph. D., Full Professor Ivica Jurić-Grgić, Ph. D., Associate Professor Nedjeljka Grulović – Plavljanić, Teaching Assistant Ivan Krolo, Teaching AssistantElectrical EngineeringŽeljko Domazet, Ph. D., Associate Professor Nedjeljka Grulović – Plavljanić, Teaching Assistant Ivan Krolo, Teaching AssistantŽeljko Domazet, Ph.D., Full Professor Nedjeljka Grulović – Plavljanić, Teaching Assistant Ivan Krolo, Teaching Assistant	
Ivan Peko, Teaching AssistantDesign of Industrial ProductsŽeljko Domazet, Ph. D., Full Professor Lovre Krstulović-Opara, Ph. D., Full Professor Ivica Jurić-Grgić, Ph. D., Associate Professor Nedjeljka Grulović – Plavljanić, Teaching Assistant Ivan Krolo, Teaching AssistantŽeljko Domazet, Ph. D., Full Professor Nedjeljka Grulović – Plavljanić, Teaching Assistant Ivan Krolo, Teaching AssistantŽeljko Domazet, Ph.D., Full Professor Nedjeljka Grulović – Plavljanić, Teaching Assistant Ivan Krolo, Teaching Assistant	
Design of Industrial Products       Željko Domazet, Ph. D., Full Professor Lovre Krstulović-Opara, Ph. D., Full Professor         Electrical Engineering       Ivica Jurić-Grgić, Ph. D., Associate Professor Nedjeljka Grulović – Plavljanić, Teaching Assistant         Ivan Krolo, Teaching Assistant         Željko Domazet, Ph. D., Full Professor         Nedjeljka Grulović – Plavljanić, Teaching         Assistant         Ivan Krolo, Teaching Assistant         Željko Domazet, Ph.D., Full Professor         Miro Bugarin, Ph.D., Assistant Professor, Ivan	
Design of Industrial Products       Lovre Krstulović-Opara, Ph. D., Full Professor         Ivica Jurić-Grgić, Ph. D., Associate Professor       Nedjeljka Grulović – Plavljanić, Teaching         Assistant       Ivan Krolo, Teaching Assistant         Željko Domazet, Ph.D., Full Professor       Miro Bugarin, Ph.D., Assistant Professor, Ivan	
Electrical Engineering       Lovre Krstulovic-Opara, Ph. D., Full Professor         Ivica Jurić-Grgić, Ph. D., Associate Professor         Nedjeljka Grulović – Plavljanić, Teaching         Assistant         Ivan Krolo, Teaching Assistant         Željko Domazet, Ph.D., Full Professor         Miro Bugarin, Ph.D., Assistant Professor, Ivan	
Electrical Engineering Nedjeljka Gruľović – Plavljanić, Teaching Assistant Ivan Krolo, Teaching Assistant Željko Domazet, Ph.D., Full Professor Miro Bugarin, Ph.D., Assistant Professor, Ivan	
Assistant Ivan Krolo, Teaching Assistant Željko Domazet, Ph.D., Full Professor Miro Bugarin, Ph.D., Assistant Professor, Ivan	
Assistant         Ivan Krolo, Teaching Assistant         Željko Domazet, Ph.D., Full Professor         Miro Bugarin, Ph.D., Assistant Professor, Ivan	
Željko Domazet, Ph.D., Full Professor Miro Bugarin, Ph.D., Assistant Professor, Ivan	
Miro Bugarin, Ph.D., Assistant Professor, Ivan	
Čnor Toophing Appintant	
Engineering Graphics 1	
Dejan Bobić, Teaching Assistant, Joško Kunac	,
Teaching Assistant, Petra Bagavac, Teaching	
Assistant	
Tonči Piršić, Ph. D., Associate Professor	
Petra Bagavac, Teaching Assistant	
Engineering Graphics 2 Miro Bugarin, Ph. D., Assistant Professor	
Ivan Špar, Teaching Assistant	
Joško Kunac, Teaching Assistant	
Dejan Bobić, Teaching Assistant	
English Language 1 Mirjana M. Kovač, Ph.D., Assistant Professor	
English Language 2Mirjana M. Kovač, Ph.D., Assistant Professor	
Experimental Methods in Engineering Željko Domazet, Ph. D., Full Professor	
Experimental Methods in Engineering Lovre Krstulović-Opara, Ph. D., Full Professor	
Final Thesis	

Finance	Josip Visković, Ph.D., Assistant Professor
	Ivan Pavić, Ph. D., Full Professor
Fundamentals of Microeconomics	Maja Pervan, Ph. D., Associate Professor
	Josipa Višić, Ph. D., Assistant Professor
	Branko Klarin, Ph. D., Full Professor
Fluid Mechanics	Maja Zore, Teaching Assistant
Industrial Property	Jozo Čizmić, Ph.D., Full Professor
	Damir Vučina, Ph. D. Full Professor
	Igor Pehnec, Ph. D. Teaching Assistant
Introduction to Information Systems	Ivo Marinić- Kragić, Teaching Assistant
	Milan Ćurković, Ph. D., Teaching Assistant
Introduction to Public Speaking	Mirjana M. Kovač, Ph.D., Assistant Professor
	Srdjan Podrug, Ph.D., Full Professor
Machine Elements	Vjekoslav Tvrdić, Teaching Assistant
	Petar Filipić, Ph.D., Full Professor
l	Lena Malešević Perović, Ph.D., Associate
Macroeconomics	Professor
	Bruno Ćorić, Ph.D., Assistant Professor
	Nikša Alfirević, Ph.D., Full Professor
Management	Željko Mateljak, Ph. D., Teaching Assistant
	Anita Talaja, Ph. D., Teaching Assistant
	Nedjeljko Mišina, Ph. D., Full Professor
	Dražen Živković, Ph. D., Full Professor
Materials 1	Nikša Čatipović, Teaching assistant
	Zvonimir Dadić, Teaching assistant
	Nedjeljko Mišina, Ph. D., Full Professor
Marcala Co	Dražen Živković, Ph. D., Full Professor
Materials 2	Nikša Čatipović, Teaching assistant
	Zvonimir Dadić, Teaching assistant
	Ivan Slapničar, Ph.D., Full Professor,
	Anita Matković, Ph.D., Associate Professor,
	Josipa Barić, Ph.D., Assistant Professor
Mathematica 4	Ph.D. Nevena Jakovčević Stor, mr. sc. Ivančica
Mathematics 1	Mirošević, Irena Bego, Anita Carević, Marija
	Čatipović, Lea Dujić, Ivana Grgić, Lana Periša,
	Marina Mandić, Dajana Radišić, Mirjana Strukan,
	Stjepan Vedran Vukasović, Vanja Županović
	Ivan Slapničar, Ph.D., Full Professor,
	Anita Matković, Ph.D., Associate Professor,
	Josipa Barić, Ph.D., Assistant Professor
Mathematics 2	Ph.D. Nevena Jakovčević Stor, mr. sc. Ivančica
	Mirošević, Irena Bego, Anita Carević, Marija
	Čatipović, Lea Dujić, Ivana Grgić, Lana Periša,
	Marina Mandić, Dajana Radišić, Mirjana Strukan,
	Stjepan Vedran Vukasović, Vanja Županović
	Frane Vlak, Ph. D., Associate Professor
Mechanics 1	Branka Bužančić-Primorac, Ph. D., Teaching
	assistant
	Željan Lozina, Ph. D., Full Professor
Mechanics 2	Damir Sedlar, Ph. D., Assistant Professor
	Tomac Ivan, Ph. D., Assistant Professor
Mechanics of Materials	Frane Vlak, Ph. D., Associate Professor
	Marko Vukasović, Ph. D., Teaching assistant
	Željko Domazet, Ph. D., Full Professor
Metal Structures Design	Lovre Krstulović-Opara, Ph. D., Full Professor
	Miro Bugarin, Ph. D., Assistant Professor
Modern material processing technologies	Nikša Krnić, PhD, Associated professor
Noise and Vibration Control	Željan Lozina, Ph. D., Full Professor

	Damir Sedlar, Ph. D., Assistant Professor
	Ivica Puljak, Ph.D., Full Professor, Nikola
Physics	Godinović, Ph.D., Associate Professor, Ilja
FILISICS	Doršner, Ph.D., Associate Professor, Damir
	Lelas, Ph.D., Assistant Professor
	Zlatan Reić, Ph. D., Full Professsor
Principles of Economics	Maja Mihaljević Kosor, Ph. D., Assistant
	Professor
	Vladimir Šimić, Ph. D., Teaching assistant
	Head of the professional training from the Faculty
Professional Training	Head of the professional training from the private
	institution
Statistics	Ante Rozga, Ph. D., Full Professor
Technology 1	Nedjeljko Mišina, Ph.d. full professor
Technology 1	Dražen Živković, Ph.d. full professor
	PhD Dražen Bajić, Professor
	PhD Branimir Lela, Assistant professor
Technology 2	Sonja Jozić, Ph.D., Assistant professor
	Jure Krolo, Teaching assistant
	Mario Veić, Teaching assistant
Testing of materials	Nikša Krnić, PhD, Associate professor
Thormodynamics	Frano Barbir, Ph. D., Full Professor
Thermodynamics	Ivan Tolj, Ph. D., Teaching assistant
Tribology	Dražen Živković, Ph. D., Full Professor
Work and Time Study	Boženko Bilić, Ph.D. Full Professor
	Nikola Gjeldum, Ph.D. Assistant Professor

First and lost name and title of	
First and last name and title of teacher	Nikša Alfirević
The course he/she teaches in the	Management
	Management
proposed study programme	
GENERAL INFORMATION ON COU	
Address	Ruđera Boškovića 5, Split
Telephone number	098 85 22 69
E-mail address	nalf@efst.hr
Personal web page	4070
Year of birth	1972
Scientist ID	232134
Research or art rank, and date of	
last rank appointment	Full professor (topured) 20.6.2016
Research-and-teaching, art-and- teaching or teaching rank, and date	Full professor (tenured), 30.6.2016.
of last rank appointment	
Area and field of election into	Full professor (tenured), social sciences, economics
research or art rank	(management and organization)
INFORMATION ON CURRENT EMP	
Institution where employed	University of Split, Faculty of Economics
Date of employment	1.10.1996.
Name of position (professor,	Professor
researcher, associate teacher, etc.) Field of research	Management and organization: IT management
Function	Management and organization; IT management Professor
INFORMATION ON EDUCATION – H	
Degree	PhD (economics); PhD (sociology)
Institution	University of Split – Faculty of Economics; University of Klagenfurt
Place	Split (Croatia); Klagenfurt (Austria)
Date	2003; 2009
INFORMATION ON ADDITIONAL TR	RAINING
Year	2011-2013
Place	Klagenfurt
Institution	Alpen Adria University of Klagenfurt
Field of training	Erasmus mobility – planning, implementation and teaching on
	the international graduate (master) programs, delivered in
	English
MOTHER TONGUE AND FOREIGN	LANGUAGES
Mother tongue	Croatian
Foreign language and command of	English – 5
foreign language on a scale from 2 (sufficient) to 5 (excellent)	
Foreign language and command of	German – 3
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Foreign language and command of	
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURS	E
Earlier experience as course	Teaches courses Management, Change management,
teacher of similar courses (name	Business intelligence and E-business on undergraduate and
title of course, study programme	graduate level at the Faculty of Economics Split
, , , , , , , , , , , , , , , , , , , ,	

## 3.3. Curriculum vitae of the course teacher

where it is/was offered, and level of	
study programme)	
Authorship of university/faculty textbooks in the field of the course	<ol> <li>Alfirević, Nikša; Pavičić, Jurica; Najev Čačija, Ljiljana; Mihanović, Zoran; Matković, Jelena. Osnove marketinga i menadžmenta neprofitnih organizacija. Zagreb : Školska knjiga, Institut za inovacije, 2013 (approved by University of Split)</li> <li>Upravljanje organizacijskim promjenama i znanjem / Alfirević, Nikša; Garbin Praničević, Daniela; Talaja, Anita (Eds.). Split : Ekonomski fakultet Split, 2014 (approved by University of Split)</li> </ol>
Professional, scholarly and artistic	1. Alfirević, Nikša; Talaja, Anita. Managing Knowledge
articles published in the last five years in the field of the course (5 works at most)	<ul> <li>through Dynamic Capabilities // Learning Models for Innovation in Organizations: Examining Roles of Knowledge Transfer and Human Resources Management / Soliman, Fawzy (Eds.). Hershey (PA), USA : IGI Global Inc, 2014. pp. 157-172.</li> <li>Alfirević, N.; Dorotić, M.; Hajdić, M. Novel customer collaboration and networking tools for cultivating external information // Proceedings of the 9th IFKAD</li> </ul>
	<ul> <li>(International Forum on Knowledge Asset Dynamics): Knowledge and Management Models for Sustainable Growth / Carlucci, D. ; Spender, J.C. ; Schiuma, G. (Eds.). Basilicata : Institute of Knowledge Asset Management, Arts for Business Institute &amp; University of Basilicata, 2014. pp. 1334-1345.</li> <li>3. Alfirević, Nikša; Pavičić, Jurica; Gnjidić, Vladimir. Cognitive Structure, Managers' Shared Social Understanding: From Psychological and Sociological Concepts to Managerial Strategic Choices. // Zagreb</li> </ul>
	<ul> <li>International Review of Economics and Business. 17 (2014), 2; 83-96.</li> <li>Alfirević, N. Oblici upravljanja znanjem i unapređenja poslovnih procesa // Utjecaj organizacijskih varijabli na uspjeh programa unapređenja poslovnih procesa (Empirijsko istraživanje) / Buble, M. (Eds.). Split :</li> </ul>
	<ul> <li>5. Dulčić, Ž.; Alfirević, N.; Gnjidić, V. From Five Competitive Forces to Five Collaborative Forces: Revised View on Industry Structure-firm Interrelationship. // Procedia - Social and Behavioral Sciences. 58 (2012); pp. 1077-1084.</li> </ul>
Professional and scholarly articles	1. Međunarodni andragoški simpozij: Ključne
published in the last five years in	kompetencije i učenje odraslih / Pavkov, Marija;
subjects of teaching methodology and teaching quality (5 works at most)	Alfirević, Nikša (ur.). Zagreb : Agencija za strukovno obrazovanje i obrazovanje odraslih, 2013.
Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)	
PRIZES AND AWARDS, STUDENT	
Prizes and awards for teaching and scholarly/artistic work	2009 – Annual award of the University of Split – Faculty of Economics
	2009 – Annual award Mijo Mirković of the University of Zagreb – Faculty of Economics and Business, for scientific work

First and last name and title of			
First and last name and title of	Dražen Bajić, Ph.D., Full Professor		
teacher The course he/she teaches in the	1. Technology 2		
proposed study programme	1. Technology 2		
GENERAL INFORMATION ON COURSE TEACHER			
Address	Julija Klovića 16 B, 21000 Split		
Telephone number	091 430 59 31		
E-mail address	dbajic@fesb.hr		
Personal web page			
Year of birth	1965.		
Scientist ID	186 194		
Research or art rank, and date of last rank appointment	Scientific Adviser, 12/4/2006		
Research-and-teaching, art-and-			
teaching or teaching rank, and	Senior Full Professor, 25/1/2013		
date of last rank appointment			
Area and field of election into research or art rank	Technical Sciences, Mechanical engineering		
INFORMATION ON CURRENT EMP	PLOYMENT		
Institution where employed	Faculty of Electrical Engineering, Mechanical Engineering and		
	Naval Architecture		
Date of employment	15/7/1991		
Name of position (professor,	Professor		
researcher, associate teacher, etc.)			
Field of research	Manufacturing engineering, machining, machine tools		
Function	Head of Chair of Mechanical Engineering Technology		
INFORMATION ON EDUCATION -	Highest degree earned		
Degree	PhD		
Institution	University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture		
Place	Zagreb		
Date	17/4/2000		
INFORMATION ON ADDITIONAL T	RAINING		
Year			
Place			
Institution			
Field of training			
MOTHER TONGUE AND FOREIGN	LANGUAGES		
Mother tongue	Croatian		
Foreign language and command of	English (4)		
foreign language on a scale from 2	5 ()		
(sufficient) to 5 (excellent)			
Foreign language and command of	German (2)		
foreign language on a scale from 2			
(sufficient) to 5 (excellent)			
Foreign language and command of			
foreign language on a scale from 2 (sufficient) to 5 (excellent)			
COMPETENCES FOR THE COURS	E		
Earlier experience as course	Undergraduate study:		
teacher of similar courses (name	2. Technology 2 (130)		
title of course, study programme	Graduate study:		
where it is/was offered, and level	1. Computer aided manufacturing (261,262,263)		
of study programme)	2. Machine tools (261, 263)		

	2 Machine tools and sustains (070)
Authorship of university/faculty textbooks in the field of the course Professional, scholarly and artistic articles published in the last five years in the field of the course (5 works at most)	<ol> <li>Machine tools and systems (270)</li> <li>Sustainable production (272)</li> <li>Professional study:         <ol> <li>Machining and machine tools (530)</li> <li>Computer aided manufacturing (530)</li> <li>Manufacturing processes (540)</li> </ol> </li> <li>Postgraduate study:         <ol> <li>Modern machining processes (330)</li> <li>Rapid manufacturing (330)</li> </ol> </li> <li>Jozić, Sonja; Bajić, Dražen; Celent, Luka. Application of compressed cold air cooling: achieving multiple performance characteristics in end milling process. // Journal of cleaner production. 100 (2015), /; 325-332</li> <li>Jozić, Sonja; Bajić, Dražen; Stoić, Antun. Flank wear and surface roughness in end milling of hardened steel // Metalurgija. 54 (2015), 2; 343-346.</li> <li>Jozić, Sonja; Lela, Branimir; Bajić, Dražen. A New Mathematical Model for Flank Wear Prediction Using Functional Data Analysis Methodology. // Advances in Materials Science and Engineering. 2014 (2014); 1-8</li> <li>Jozić, Sonja; Bajić, Dražen; Samardzić, Ivan. Contribution to the assessment of economic viability of hard milling process. Tehnički vjesnik: znanstveno-stručni časopis tehničkih fakulteta Sveučilišta u Osijeku (1330-3651) 21 (2014), 6; 1329-1336.</li> </ol> <li>Bajić, Dražen; Celent Luka; Jozić, Sonja. Modeling of the influence of cutting parameters of the surface roughness, tool wear and cutting force in face milling in off-line</li>
Professional and scholarly articles published in the last five years in subjects of teaching methodology and teaching quality (5 works at	process control. // Strojniški vestnik – Journal of Mechanical Engineering. 58 (2012), 11; 673-682
most) Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)	<ul> <li>Bajić, D., Celent, L., Jozić, S., Design and 3D printing of bottles for designing of bottling plant, (Ordered by: Viloet Logistics Ltd., Obrež Zelinski), Split, 2013.</li> <li>Bajić, D., Celent, L., Jozić, S., Design and manufacture of molds for steering of student formula (Ordered by: UPS, Split), Split, 2012</li> <li>Bajić (PL), I. Veža, B. Bilić, S. Jozić, L. Celent, N. Koboević. High speed machining research, Ministry of science, education and sport, Croatia, - 2012</li> </ul>
The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences?-pedagoške kompetencije?	
PRIZES AND AWARDS, STUDENT Prizes and awards for teaching and scholarly/artistic work	EVALUATION - Gold medal and plaque for innovation "Planning and optimization of manufacturing system by using simulation" at the Spring Exhibition of Inventions INOVA'95 Zagreb, 1995.

	<ul> <li>Jubilee plaques and medals Croatian Association of Production Engineering for outstanding contribution to the work of HUPS's, and for the benefit of scientific and economic development of the Republic of Croatia, Zagreb, 2000.</li> <li>Gold Medal Croatian Association of Production Engineering for Outstanding Contribution to the work of HUPS's, and for the benefit of scientific and economic development of the Republic of Croatia, Zagreb, 2003.</li> <li>Gold Medal Croatian Association of Production Engineering for Outstanding Contribution to the work of HUPS's, and for the benefit of scientific and economic development of the Republic of Croatia, Zagreb, 2003.</li> </ul>
Results of student evaluation taken in the last five years for the course that is comparable to the course described in the form (evaluation organizer, average grade, note on grading scale and course evaluated)	

First and last name and title of teacher	Frano Barbir, Ph. D., Full Professor
The courses he/she teaches in the	Thermodynamics
proposed study programme	
GENERAL INFORMATION ON COU	
Address	R. Boskovica 32
Telephone number	+385 21 305 953
E-mail address	fbarbir@fesb.hr
Personal web page	www.fesb.hr/~fbarbir
Year of birth	1954
Scientist ID	124283
Research or art rank, and date of last rank appointment	Scientific advisor, 05.07.2006.
Research-and-teaching, art-and-	Full tenured professor
teaching or teaching rank, and date of last rank appointment	26.09.2011.
Area and field of election into research or art rank	Area of technical sciences, field mechanical engineering
INFORMATION ON CURRENT EMP	LOYMENT
Institution where employed	Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture, University of Split
Date of employment	01.10.2006
Name of position (professor,	Professor
researcher, associate teacher, etc.)	
Field of research	Thermodynamics, Renewable energy sources, hydrogen technologies
Function	Chair of Thermodynamics, Thermo-technics and heat engines
INFORMATION ON EDUCATION - I	Highest degree earned
Degree	PhD in Mechanical Engineering
Institution	University of Miami
Place	Coral Gables, FL, SAD
Date	18. December 1992.
INFORMATION ON ADDITIONAL TR	RAINING
Year	1995
Place	Cleveland
Institution	Case Western Reserve University
Field of training	Electrochemical measurements
MOTHER TONGUE AND FOREIGN	LANGUAGES
Mother tongue	Croatian
Foreign language and command of	English – 5
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Foreign language and command of	Italian – 2
foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)	Italian – 2
foreign language on a scale from 2	
foreign language on a scale from 2 (sufficient) to 5 (excellent)	E 1. Special Topics in Mechanical Engineering: Fuel Cells
foreign language on a scale from 2 (sufficient) to 5 (excellent) COMPETENCES FOR THE COURS Earlier experience as course teacher of similar courses (name	E 1. Special Topics in Mechanical Engineering: Fuel Cells Engineering, University of Connecticut (2002 - 2005)
foreign language on a scale from 2 (sufficient) to 5 (excellent) COMPETENCES FOR THE COURS Earlier experience as course teacher of similar courses (name title of course, study programme	E 1. Special Topics in Mechanical Engineering: Fuel Cells Engineering, University of Connecticut (2002 - 2005) diplomski i poslijediplomski studij
foreign language on a scale from 2 (sufficient) to 5 (excellent) COMPETENCES FOR THE COURS Earlier experience as course teacher of similar courses (name title of course, study programme where it is/was offered, and level of	E 1. Special Topics in Mechanical Engineering: Fuel Cells Engineering, University of Connecticut (2002 - 2005) diplomski i poslijediplomski studij 2. Special Topics in Mechanical Engineering: Fuel Cells
foreign language on a scale from 2 (sufficient) to 5 (excellent) COMPETENCES FOR THE COURS Earlier experience as course teacher of similar courses (name title of course, study programme	<ul> <li>E</li> <li>1. Special Topics in Mechanical Engineering: Fuel Cells Engineering, University of Connecticut (2002 - 2005) diplomski i poslijediplomski studij</li> <li>2. Special Topics in Mechanical Engineering: Fuel Cells Modeling, University of Wyoming (2012 - 2013) diplomski i</li> </ul>
foreign language on a scale from 2 (sufficient) to 5 (excellent) COMPETENCES FOR THE COURS Earlier experience as course teacher of similar courses (name title of course, study programme where it is/was offered, and level of study programme)	E 1. Special Topics in Mechanical Engineering: Fuel Cells Engineering, University of Connecticut (2002 - 2005) diplomski i poslijediplomski studij 2. Special Topics in Mechanical Engineering: Fuel Cells Modeling, University of Wyoming (2012 - 2013) diplomski i poslijediplomski studij
foreign language on a scale from 2 (sufficient) to 5 (excellent) COMPETENCES FOR THE COURS Earlier experience as course teacher of similar courses (name title of course, study programme where it is/was offered, and level of	<ul> <li>E</li> <li>1. Special Topics in Mechanical Engineering: Fuel Cells Engineering, University of Connecticut (2002 - 2005) diplomski i poslijediplomski studij</li> <li>2. Special Topics in Mechanical Engineering: Fuel Cells Modeling, University of Wyoming (2012 - 2013) diplomski i</li> </ul>

Professional, scholarly and artistic	4 D. Dermelingvić, D. Čirvić, E. Derkin, Obergetarization, of
articles published in the last five	1. D. Bezmalinović, B. Šimić, F. Barbir, Characterization of PEM fuel cell degradation by polarization change curves,
years in the field of the course (5	Journal of Power Sources, Vol. 294, (2015) pp. 82-87
works at most)	2. E. Özden, I. Tolj, F. Barbir, Designing heat exchanger with
	variable surface area for passive cooling of PEM fuel cell, J. Appl. Thermal Eng., Vol. 51, No. 1–2, (2013), pp. 1339-1344
	3. D. Bezmalinovic, F.Barbir I. Tolj, Techno-economic analysis
	of PEM fuel cells role in photovoltaic-based systems for the
	remote base stations, Int. J. Hydrogen Energy, Vol. 38, No. 1, (2013) pp. 417-425.
	4. I. Tolj, D. Bezmalinovic, F.Barbir, Maintaining desired level
	of relative humidity throughout a fuel cell with spatially
	variable heat removal rates, Int. Journal Hydrogen Energy, Vol. 36, No. 20, (2011) pp. 13105-13113.
	5. O. Atlam, F. Barbir, D. Bezmalinovic, A Method for Optimal
	Sizing of an Electrolyzer Directly Connected to a PV Module, International Journal of Hydrogen Energy Vol. 36, No. 12,
	(2011) pp. 7012-7018.
Professional and scholarly articles published in the last five years in	
subjects of teaching methodology	
and teaching quality (5 works at	
most) Professional, science and artistic	Broiget Londer, B&D of Hydrogen Energy System in
projects in the field of the course	<ul> <li>Project Leader, R&amp;D of Hydrogen Energy System in Conjunction with Renewable Energy Sources, European</li> </ul>
carried out in the last five years (5 at most)	Regional Development Fund through Central Agency for
	<ul> <li>Contracting and Financing of EU projects (2014-2016)</li> <li>Project Leader, Water and Heat Management and</li> </ul>
	Durability of PEM Fuel Cells), Croatian Science Foundation, 2015-2018
	<ul> <li>Work Package Leader: System Automation of PEMFCs with Prognostics and Health management for Improved</li> </ul>
	Reliability and Economy (SAPPHIRE), project leader:
	SINTEF, Norway, project financed by EC FCH Joint
	<ul><li>Undertaking, (FCH-JU), 2013-2016</li><li>Work Package Leader: Development of Guidance Manual</li></ul>
	for LCA Application to Fuel Cells and Hydrogen
	Technologies, H2FC-LCA HyGuide, Project Leader: ENEA
	Italy, project financed by EC EC FCH Joint Undertaking, (FCH-JU), 2010-2011
	• Project Leader: Passive fuel cells with oxygen supply from
	air by natural convection, Ministry of Science, Education and Sports, 2007-2013
The name of the programme and	"Training for teachers and administrative staff" as a part of EU
the volume in which the main teacher passed exams in/acquired	project ME4CatalOgue (Mechanical Engineering for Catalogue) 2013-2015
the methodological-psychological-	
didactic-pedagogical group of	
competences?-pedagoške kompetencije?	
PRIZES AND AWARDS, STUDENT	EVALUATION
Prizes and awards for teaching and scholarly/artistic work	<ul> <li>National annual award for science in technical sciences, 2012</li> </ul>
Scholarly/artistic work	<ul> <li>University of Split plaque for exceptional contribution to</li> </ul>
	University development through outstanding scientific,

	teaching and professional work, 2012
Results of student evaluation taken in the last five years for the course that is comparable to the course described in the form (evaluation organizer, average grade, note on grading scale and course evaluated)	<ul> <li>FESB, Heat and Mass Transfer, 4.5/5</li> <li>University of Wyoming, Excellent, No grades- descriptive evaluation, Fuel Cell Engineering course, 2012,</li> </ul>
First and last name and title of	Josipa Barić, Ph.D., Assistant Professor
--	--
teacher	Josipa Band, Fil.D., Assistant Fiolesson
The course he/she teaches in the	Mathematics 1, Mathematics 2, Mathematics 3,
proposed study programme	
GENERAL INFORMATION ON COUR	SE TEACHER
Address	FESB, R. Boškovića 32, B809
Telephone number	021 305899
E-mail address	josipa.baric@fesb.hr
Personal web page	<u> </u>
Year of birth	1974.
Scientist ID	248871
Research or art rank, and date of last	scientific assistant
rank appointment	
Research-and-teaching, art-and-	Assistant professor, permanent position, since 2011.
teaching or teaching rank, and date	
of last rank appointment	
Area and field of election into	Area od Natural Sciences, Field of Mathematics
research or art rank	
INFORMATION ON CURRENT EMPLO	OYMENT
Institution where employed	FESB, Split
Date of employment	2001.
Name of position (professor,	Assistant professor
researcher, associate teacher, etc.)	
Field of research	Mathematics
Function	
INFORMATION ON EDUCATION - Hi	ghest degree earned
Degree	Ph.D.
Institution	PMF
Place	Zagreb
Date	January 2011.
INFORMATION ON ADDITIONAL TRA	INING
Year	
Place	
Institution	
Field of training	
Year	
Place	
Institution	
Field of training	
Year	
Place Institution	
Field of training	
MOTHER TONGUE AND FOREIGN L	
Mother tongue	Croatian
Foreign language and command of foreign language on a scale from 2	English (5)
(sufficient) to 5 (excellent)	
Foreign language and command of	
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Foreign language and command of	
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	

COMPETENCES FOR THE COURSE	
Earlier experience as course teacher	Lecturer of various courses since 2001.
of similar courses (name title of	
course, study programme where it	
is/was offered, and level of study	
programme)	
Authorship of university/faculty	Ivan Slapničar, Josipa Barić i Marina Ninčević, Matematika 2 –
textbooks in the field of the course	zbirka zadataka, FESB, Split, 2010. (Manualia Universitatis studiorum Spalatensis)
	Barić, Josipa; Bibi, Rabia; Bohner, Martin; Nosheen, Ammara; Pečarić, Josip.
	Jensen Inequalities on Time Scales, Theory and Applications . Zagreb : Element, 2015
Professional, scholarly and artistic	1. Barić, Josipa; Jakšić, Rozarija; Pečarić, Josip.
articles published in the last five years in the field of the course (5 works at most)	Converses of Jessen's inequality on time scales II. // Mathematical inequalities & applications. 19 (2016), 4; 1271-1285.
	2. Barić, Josipa; Bohner, Martin; Jakšić, Rozarija; Pečarić,
	Josip. Converses of Jessen's inequality on time scales. // Mathematical notes. 98 (2015) , 1; 11-24.
	3. Barić, Josipa; Nosheen, Ammara; Pečarić, Josip. Time scale Hardy-type inequalities with general kernel for
	Superquadratic functions. // Proceedings of A. Razmadze Mathematical Institute. 165 (2014) ; 1-18,
	4. Barić, Josipa; Bibi, Rabia; Bohner, Martin; Pečarić, Josip. Time scales integral inequalities for superquadratic functions. // Journal of the Korean Mathematical Society. 50 (2013), 3; 465- 477
Professional and scholarly articles	
published in the last five years in	
subjects of teaching methodology	
and teaching quality (5 works at most)	
Professional, science and artistic	
projects in the field of the course	
carried out in the last five years (5 at	
most)	
The name of the programme and the volume in which the main teacher	
passed exams in/acquired the	
methodological-psychological-	
didactic-pedagogical group of	
competences?-pedagoške	
kompetencije?	
PRIZES AND AWARDS, STUDENT E	VALUATION
Prizes and awards for teaching and scholarly/artistic work	
Results of student evaluation taken	Evaluations organized by the Quality Enhancement Centre of
in the last five years for the course	the University of Split each semester. Average grade is 4.5 on
that is comparable to the course	the 1-5 scale.
described in the form (evaluation organizer, average grade, note on	
grading scale and course evaluated)	
grading obtio and obtiot ovaluated)	

First and last name and title of	
teacher	Boženko Bilić Ph.D., Full Professor
The course he/she teaches in the	
proposed study programme	Work and Time Study
GENERAL INFORMATION ON COU	RSE TEACHER
Address	Makarska ulica 2, 21000 Split, HR
Telephone number	+385 21 410 810
E-mail address	bbilic@fesb.hr
Personal web page	
Year of birth	1962.
Scientist ID	154905
Research or art rank, and date of	Scientific Adviser, 12/04/2006
last rank appointment	
Research-and-teaching, art-and-	
teaching or teaching rank, and date	Senior Full Professor, 25/01/2013
of last rank appointment	
Area and field of election into research or art rank	Technical Sciences, Field Mechanical engineering
INFORMATION ON CURRENT EMP	
Institution where employed	Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture
Data of amployment	1/10/1987
Date of employment Name of position (professor,	
researcher, associate teacher, etc.)	Professor
Field of research	Production engineering and organization of production
Function	
	ligheet degree eerood
INFORMATION ON EDUCATION – I	Ph.D.
Degree	Faculty of Electrical Engineering, Mechanical Engineering and
Institution	Naval Architecture
Place	Split
Date	30/6/2000
INFORMATION ON ADDITIONAL T	
Year	
Place	
Institution	
Field of training	
MOTHER TONGUE AND FOREIGN	
Mother tongue	Croatian
Foreign language and command of	
foreign language on a scale from 2	English (4)
(sufficient) to 5 (excellent)	
Foreign language and command of	
foreign language on a scale from 2	Germany (2)
(sufficient) to 5 (excellent)	
Foreign language and command of	
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COMPE	E
COMPETENCES FOR THE COURS	
Earlier experience as course	
Earlier experience as course teacher of similar courses (name	
Earlier experience as course teacher of similar courses (name title of course, study programme	Vast experience in teaching these courses.
Earlier experience as course teacher of similar courses (name title of course, study programme where it is/was offered, and level of	Vast experience in teaching these courses.
Earlier experience as course teacher of similar courses (name title of course, study programme	Vast experience in teaching these courses.

textbooks in the field of the course	
Professional, scholarly and artistic articles published in the last five years in the field of the course (5 works at most)	<ol> <li>Veža, I., Bilić, B., Gjeldum, N., Mladineo, M., Model of innovative smart enterprise, Proceedings of the 6th International Conference on Mass Customization and Personalization in Central Europe (MCP-CE 2014) (ISBN 978-86-7892-626-6), str. 224-229, Novi Sad, Serbia, 2014.</li> <li>Bilić, B., Veža, I., Crvelin, D., Application of the SMED method in the injection molding process, Proceedings of the 1<sup>st</sup> International Scientific Conference on Engineering: MAT 2010 - Manufacturing and Advanced Technologies, (ISSN 1986-9126), University Dzemal Bijedic, Faculty of Mechanical Engineering, str. 123-128, Mostar, 2010.</li> </ol>
Professional and scholarly articles published in the last five years in subjects of teaching methodology and teaching quality (5 works at most)	
Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)	
The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences?-pedagoške kompetencije?	Training for teachers and administrative staff in the EU project ME4CataLOgue Croatian Catalogue of knowledge, skills and competences for mechanical engineering studies (Bachelor, Master and Doctoral study programmes) based on learning outcomes, Split, 2014
PRIZES AND AWARDS, STUDENT	EVALUATION
Prizes and awards for teaching and scholarly/artistic work	<ol> <li>Croatian Association of Production Engineering – gold medal, Zagreb, 2005.</li> <li>Innovation Fair INOVA'95 - Gold medal and a plaque for innovation "Production system planning and optimization by using simulation", Zagreb, 1995.</li> </ol>
Results of student evaluation taken in the last five years for the course that is comparable to the course described in the form (evaluation organizer, average grade, note on grading scale and course evaluated)	4.2

First and last name and title of	Jozo Čizmić, Ph. D., Full Professor
teacher	JOZO CIZINIC, FII. D., FUII FIOIESSOI
The course he/she teaches in the	Industrial Property
proposed study programme	industrial Property
GENERAL INFORMATION ON COU	RSE TEACHER
Address	HR- 21000 Split, Požeška 8
Telephone number	021 393-585
E-mail address	jcizmic@pravst.hr
Personal web page	WWW.pravst.hr
Year of birth	1958.
Scientist ID	188501
Research or art rank, and date of	
last rank appointment	
Research-and-teaching, art-and-	Full Professor, June 2014.
teaching or teaching rank, and date	,
of last rank appointment	
Area and field of election into	Civil Procedure Law, Field of Law
research or art rank	
INFORMATION ON CURRENT EMP	LOYMENT
Institution where employed	Faculty of Law, University of Split
Date of employment	10. 11. 1988.
Name of position (professor,	Full Professor
researcher, associate teacher, etc.)	
Field of research	Civil procedure Law, Intellectual Property Law, Medicine Law
Function	Director of the «Medical Law Centar » on Faculty of Law
	University of Split
	Head of the "Institute for research of civil proceedings and
	cooperation with judiciary" on Faculty of Law University of
	Split
	Chairman of the expert Council of the Centar for Integrative
	bioethichs, Faculty of Philosophy Split, 23. June 2014.
INFORMATION ON EDUCATION - I	
Degree	Prof.Ph.D.
Institution	Faculty of Law, University of Split
Place	Split
Date	June 2014.
INFORMATION ON ADDITIONAL TR	
Year	2002. Rodin
Place Institution	Berlin Frei Universität Berlin
Field of training	
-	Civil procedure law, Insolvency Law
MOTHER TONGUE AND FOREIGN	
Mother tongue	Croatian
Foreign language and command of	English, 4
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Foreign language and command of foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Foreign language and command of	
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURS	F
Earlier experience as course	Industrial Property Law"", Integrated university studies of
Earlier experience as course	

teacher of similar courses (name title of course, study programme where it is/was offered, and level of study programme)	law on Faculty of law University of Split 2/ "Industrial Property Law", Integrated university studies of law on Faculty of law University of Mostar (Bosnia and Herzegovina).
Authorship of university/faculty textbooks in the field of the course	<ol> <li>1/ Ogledi iz prava industrijskog vlasništva, Split, 1998.</li> <li>2/ Ogledi iz prava industrijskog vlasništva - knjiga druga, Mostar, 1999.</li> </ol>
	3/ <i>Komentar Zakona o žigu</i> , Zagreb, 2002. (koautorstvo D. Zlatović)
	4/ Komentar Zakona o zastupanju u području prava industrijskog vlasništva, Split, 2008.
	5/ Nove tehnologije, intelektualno vlasništvo i informacijska sigurnost, Split, 2016.
Professional, scholarly and artistic articles published in the last five years in the field of the course (5 works at most)	Utjecaj razvoja Interneta kao svjetske infrastrukture na informacijsku sigurnost i mrežni prijenos podataka", Zbornik radova međunarodne znanstveno-stručne konferencije "Internet, vlast i politika", Kemerovo, 2013., ISBN 978-5-8353- 1620-5, str. 286-305.
	Utjecaj novih tehnologija na zaštitu tajnosti podataka i informacijsku sigurnost, Zbornik radova sa znanstveno-stručnog skupa s međunarodnim sudjelovanjem "Pravo na pristup informacijama i zaštita osobnih podataka", Pravni fakultet Sveučilišta u Splitu, Split, 2015., str. 67103.
Professional and scholarly articles published in the last five years in subjects of teaching methodology and teaching quality (5 works at most)	
Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)	CARDS projekt: EU IPR – Capacity Building in Protection of Intelectual Property Rights in Bosnia and Herzegovina, SOFRECO, - expert.
The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences?-pedagoške kompetencije?	Seminar for development and training of pedagogical competencies of university lecturers, CIRCO - Center for research and development of lifelong learning, 28. February 2013.
PRIZES AND AWARDS, STUDENT	EVALUATION
Prizes and awards for teaching and scholarly/artistic work	Appreciation Moot Court Croatia for generous help Moot Court competition Croatia, May 11, 2014.
	Award of the Student Union of the Law Faculty of the University of Split, in a sign of eternal gratitude and

	recognition for the understanding and appreciation of all the students' needs and interests, in Split, September 2015. Letter of thanks of State Intellectual Property Office, for holding Chapter 7 negotiations about Accession of Croatia to the European Union, to participate actively in Working group and valuable personal contribution to the successful closing of Chapter 7. (5. March 2009.)
Results of student evaluation taken in the last five years for the course that is comparable to the course described in the form (evaluation organizer, average grade, note on grading scale and course evaluated)	

First and last name and title of	
teacher	Bruno Corić, Ph.D., Assistant Professor
The course he/she teaches in the	
proposed study programme	Macroeconomics
GENERAL INFORMATION ON COU	RSE TEACHER
Address	Cvite Fiskovića 5
Telephone number	+385 21 430 724
E-mail address	bcoric@efst.hr
Personal web page	
Year of birth	1975
Scientist ID	274282
Research or art rank, and date of	Assistant Professor, 17/5/2012
last rank appointment	
Research-and-teaching, art-and-	Assistant Professor, 17/5/2012
teaching or teaching rank, and date	
of last rank appointment	
Area and field of election into	Social sciences, Economics
research or art rank	
INFORMATION ON CURRENT EMP	
Institution where employed	Faculty of Economics
Date of employment	1/10/2001
Name of position (professor,	Assistant Professor
researcher, associate teacher, etc.)	
Field of research	Macroeconomics
Function	
INFORMATION ON EDUCATION - I	Highest degree earned
Degree	PhD
Institution	Staffordshire University
Place	Stoke on Trent, United Kingdom
Date	1/12/2008
INFORMATION ON ADDITIONAL TR	RAINING
Year	
Place	
Institution	
Field of training	
MOTHER TONGUE AND FOREIGN	LANGUAGES
Mother tongue	Croatian
Foreign language and command of	English (4)
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Foreign language and command of	
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Foreign language and command of	
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURS	
Earlier experience as course	Undergraduate study program: Macroeconomics I and
teacher of similar courses (name	Macroeconomics II
title of course, study programme	
where it is/was offered, and level of	Graduate study program: Macroeconomics Management
study programme) Authorship of university/faculty	Ćorić Bruno i Malešević Perović Lena (2013), Makroekonomija

	ta sella i se l'illes. Os se XiliX (se se Os l'ite Elemente del Galerita de Calif
textbooks in the field of the course	teorija i politika, Sveučilište u Splitu Ekonomski fakultet, Split, ISBN 978-953-281-058-5
Professional, scholarly and artistic articles published in the last five years in the field of the course (5 works at most)	<ul> <li>Ćorić, B. (2016), CIA Interventions, Tariff Changes, and Trade During the Cold War: A Variation and New Results, <i>Econ</i> <i>Journal Watch</i>, Vol. 13(2), pp. 192-199, Impact factor: 0.29.</li> <li>Ćorić, B., Malešević-Perović, L., and Šimić, V. (2016), Openness and the Strength of Monetary Transmission: International Evidence, <i>Acta Oeconomica</i>, forthcoming, Impact factor: 0.179.</li> <li>Ćorić, B., Malešević-Perović, L., and Šimić, V. (2015), A Cross- country Analysis of the Short-run Monetary Policy Effects on Prices, <i>Czech Journal of Economics and Finance</i>, Vol. 65(5), pp. 377-390, Impact factor: 0.420.</li> <li>Ćorić, B. and Pugh, G. (2013), Foreign Direct Investment and Output Growth Volatility, <i>International Review of</i> <i>Economics &amp; Finance</i>, Vol. 25, pp. 260-271, Impact factor: 1.704.</li> <li>Ćorić, B. (2012), The Global Extent of the Great Moderation, <i>Oxford Bulletin of Economics and Statistics</i>, Vol. 74(4), pp. 493-509, Impact factor: 1.368.</li> </ul>
Professional and scholarly articles published in the last five years in subjects of teaching methodology and teaching quality (5 works at most)	
Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)	<ul> <li>2011-2012 the principal investigator and team leader at the international research project 'Determinants of Monetary Policy Effectiveness: Worldwide Empirical Analysis' which was one of the winners of CERGE-EI Eleventh Annual GDN (Global Development Network) Regional Research Competition.</li> <li>2017- the principal investigator and team leader at the HRZZ research project 'Effects of Economic Disasters' (IP-2016-06-4682)</li> </ul>
The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences?-pedagoške kompetencije?	Development and improvement of the pedagogical competences of university teachers, 2014,
PRIZES AND AWARDS, STUDENT	EVALUATION
Prizes and awards for teaching and scholarly/artistic work	
Results of student evaluation taken in the last five years for the course that is comparable to the course described in the form (evaluation organizer, average grade, note on grading scale and course evaluated)	3,8/5

First and last name and title of	
First and last name and title of teacher	Željko Domazet, Ph. D., Full Professor
The course he/she teaches in the	Metal structures, Engineering graphics 1
proposed study programme	Metal Structures, Engineering graphics 1
GENERAL INFORMATION ON COU	
Address	R. Boškovića 32
Telephone number	+385/21/305777
E-mail address	Zeljko.domazet@fesb.hr
Personal web page	www.fesb.hr
Year of birth	1954
Scientist ID	95632
Research or art rank, and date of	00002
last rank appointment	
Research-and-teaching, art-and-	Full professor – permanent position
teaching or teaching rank, and date	2005.
of last rank appointment	
Area and field of election into	Technical sciences, mechanical engineering, general
research or art rank	mechanical engineering (structures)
INFORMATION ON CURRENT EMP	
Institution where employed	University of Split
	Faculty of Electr. Eng., Mech. Eng. and Naval Arch.
Date of employment	1980.
Name of position (professor,	Full professor - permanent position
researcher, associate teacher, etc.)	
Field of research	metal structures, fatigue
Function	head of Department of Mechanical Eng. And Naval Arch.
INFORMATION ON EDUCATION - H	
Degree	Dr.sc.
Institution	FSB-Zagreb
Place	Zagreb
Date	1993.
INFORMATION ON ADDITIONAL TR	
Year	1988., 1990.
Place	Darmstadt, Germany
Institution	Fraunhofer Institut fuer Betriebsfestigkeit
Field of training	Fatigue
MOTHER TONGUE AND FOREIGN	
Mother tongue	Croatian
Foreign language and command of	English 5
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	German 3
Foreign language and command of foreign language on a scale from 2	German S
(sufficient) to 5 (excellent)	
Foreign language and command of	
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURS	E
Earlier experience as course	
teacher of similar courses (name	
title of course, study programme	
where it is/was offered, and level of	
study programme)	

Authorship of university/faculty	L. Krstulović-O., Ž. Domazet: Dizajn industrijskih proizvoda
textbooks in the field of the course	V.Grubišić, Ž. Domazet: Pogonska čvrstoća-interna skripta
	Ž. Domazet, L. Krstulović-O., Skripta iz osnova strojarstva(KTF)
Professional, scholarly and artistic	1. Domazet, Željko; Lukša, Francisko; Stanivuk, Tatjana.
articles published in the last five	An optimal design approach for calibrated rolls with
years in the field of the course (5	respect to fatigue life. // International journal of fatigue.
works at most)	<b>59</b> (2014) ; 50 <b>-</b> 63
	2. Krstulović-Opara, Lovre; Domazet, Željko; Garafulić, Endri.
	Detection of osmotic damages in GRP boat hulls. //
	Infrared physics & technology. <b>60</b> (2013.) ; 359-364
	3. Domazet, Željko; Lukša, Francisko; Bugarin, Miro.
	Fatigue Strength of the Rolls with Grooves. // Applied
	Mechanics and Materials. <b>459</b> (2014) ; 330-334
	4. Domazet, Željko; Lukša, Francisko; Stanivuk, Tatjana.
	The influence of rolling speed on the fatigue life of
	rolls with grooves. // International journal of damage
	mechanics. (2014)
	5. Krstulović-Opara, Lovre; Garafulić, Endri; Klarin, Branko;
	Domazet, Željko. Application of gradient based IR thermography to the
	GRP structures inspection. // Key Engineering Materials.
	<b>488-489</b> (2012) ; 682-685
Professional and scholarly articles	
published in the last five years in	
subjects of teaching methodology and teaching quality (5 works at	
most)	
Professional, science and artistic	1. Domazet, Željko; Lukša, Francisko.
projects in the field of the course	Influence of Rolling Temperature on Fatigue Life of
carried out in the last five years (5 at most)	Calibrated Rolls. // Advanced materials research. 742
	(2013) ; 482-487
	2. Domazet, Željko; Lukša, Francisko; Šušnjar, Marko; Korun
	Curić, Kristina.
	Stress-time History of Rolls with Grooves. //
	Transactions of FAMENA. <b>35</b> (2011) , 3; 67-74
	3. Krstulović-Opara, Lovre; Domazet, Željko; Klarin, Branko;
	Garafulić, Endri.
	The Application of IR Thermography to the NDT and
	Thermal Stress Analysis. // HDKBR info. 1 (2012.) , 6/7;
	17-22
	4. Krstulović-Opara, Lovre; Klarin, Branko; Neves, Pedro;
	Domazet, Željko.
	Thermal imaging and Thermal Stress Analysis of the
	impact damage of composite materials. // Engineering
	failure analysis. <b>18</b> (2011) ; 713-719
	Vesenjak, Matej; Krstulović-Opara, Lovre; Ren, Zoran; Domazet,
	Željko.
	Cell shape effect evaluation of polyamide cellular structures. //
	Polymer testing. 29 (2010), 8; 991-994
The name of the programme and the volume in which the main	",Training for administrative and educational personnel" part of the EU project ME4CataLOgue (Mechanical Engineering for

teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences?-pedagoške kompetencije?	Catalogue)
PRIZES AND AWARDS, STUDENT EVALUATION	
Prizes and awards for teaching and scholarly/artistic work	University of Split, Rector price, 2015.
Results of student evaluation taken in the last five years for the course that is comparable to the course described in the form (evaluation organizer, average grade, note on grading scale and course evaluated)	Results are confidential matter and kept by employer (University of Split, FESB)

First and last name and title of	
teacher	Ilja Doršner, Ph.D., Associate Professor
The course he/she teaches in the proposed study programme	Physics
GENERAL INFORMATION ON COU	RSE TEACHER
Address	Ulica pod Kosom 15, 21000 SPLIT
Telephone number	0914305883
E-mail address	dorsner@fesb.hr
Personal web page	
Year of birth	1971
Scientist ID	341315
Research or art rank, and date of	
last rank appointment	
Research-and-teaching, art-and-	Associate professor, 16.4.2014.
teaching or teaching rank, and date	
of last rank appointment	
Area and field of election into	Area of natural sciences, field of physics
research or art rank	
INFORMATION ON CURRENT EMP	LOYMENT
Institution where employed	University of Split, Faculty of Electrical Engineering, Mechanical
	Engineering and Naval Architecture, R. Boškovića 32, 21000 Split, Croatia
Date of employment	1.9.2014.
Name of position (professor,	professor
researcher, associate teacher, etc.)	
Field of research	Physics
Function	Head of Chair of Physics
INFORMATION ON EDUCATION -	Highest degree earned
Degree	PhD
Institution	University of Delaware
Place	Newark, Delaware, United States of America
Date	10.1.2004.
INFORMATION ON ADDITIONAL T	RAINING
Year	2007. – 2009. god.
Place	Ljubljana, Slovenia
Institution	Institute Jožef Stefan
Field of training	Elementary Particle Physics
MOTHER TONGUE AND FOREIGN	LANGUAGES
Mother tongue	Croatian
Foreign language and command of	
foreign language on a scale from 2	English 5
(sufficient) to 5 (excellent)	
Foreign language and command of	
foreign language on a scale from 2	Italian 4
(sufficient) to 5 (excellent)	
Foreign language and command of	
foreign language on a scale from 2	Slovenian 4
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURSE	
COMPETENCES FOR THE COURS	
Earlier experience as course	Fundamentals in Physics II, undergraduate program, University
Earlier experience as course teacher of similar courses (name	Fundamentals in Physics II, undergraduate program, University of Delaware, USA
Earlier experience as course teacher of similar courses (name title of course, study programme	
Earlier experience as course teacher of similar courses (name title of course, study programme where it is/was offered, and level of	
Earlier experience as course teacher of similar courses (name title of course, study programme	

textbooks in the field of the course	2013.
Professional, scholarly and artistic articles published in the last five years in the field of the course (5 works at most)	Ilja Doršner, Svjetlana Fajfer, Admir Greljo, Jernej F. Kamenik, and Nejc Košnik, " <b>Physics of leptoquarks in precision</b> <b>experiments and at particle colliders</b> "," <i>Phys. Rept.</i> 641 (2016) 1-68, arXiv:1603.04993.
	Ilja Doršner, Svjetlana Fajfer, and Nejc Košnik, " <b>Is symmetry breaking of</b> <i>SU</i> (5) <b>theory responsible for the diphoton excess?</b> ," <i>Phys. Rev. D</i> 94 (2016) no.1, 015009, arXiv:1601.03267.
	Ilja Doršner, " <b>Comment on</b> " <i>SU</i> (5) octet scalar at the LHC"," <i>Phys. Rev. D</i> 91 (2015) 118701.
	Ilja Doršner, Svjetlana Fajfer, Admir Greljo, Jernej F. Kamenik, Nejc Košnik, and Ivan Nišandžić, " <b>New physics models facing</b> <b>lepton flavor violating Higgs decays at the percent level</b> ," JHEP (2015) 0615:108, arXiv:1502.07784.
	Ilja Doršner, Svjetlana Fajfer, and Admir Greljo, " <b>Cornering</b> <b>Scalar Leptoquarks at LHC</b> ," JHEP (2014) 1014:154, arXiv:1406.4831.
Professional and scholarly articles published in the last five years in subjects of teaching methodology and teaching quality (5 works at most)	None
Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)	<ul> <li>HRZZ Research Projects (IP-11-2013), Hrvatska zaklada za znanost (1.10.2014. god. – 30.9.2018. god.).</li> <li>Exploiting the LHC Potential to build Collaboration in Science and Technology (IZ74Z0_137346), Swiss Science National Foundation (1.1.2012. – 31.12.2014. god.).</li> <li>Sofinanciranje znanstveno raziskovalnega sodelovanja med RS in ZDA v letih 2009-2012, Slovenian Research Agency (ARRS) (1.7. 2009. – 30.6.2012. god.).</li> </ul>
The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences?-pedagoške kompetencije?	
PRIZES AND AWARDS, STUDENT EVALUATION	
Prizes and awards for teaching and	Competitive Scholarship 2002, University of Delaware
scholarly/artistic work Results of student evaluation taken	
in the last five years for the course	
that is comparable to the course	
described in the form (evaluation organizer, average grade, note on	
grading scale and course evaluated)	

First and last name and title of	Prof.dr.sc. Petar Filipić
teacher	
The course he/she teaches in the	Introduction to Macroeconomics
proposed study programme	
GENERAL INFORMATION ON COU	RSE TEACHER
Address	Spinutska 4, 21000 Split
Telephone number	00385-21-443-0678
E-mail address	filipic@efst.hr
Personal web page	
Year of birth	1947
Scientist ID	11862
Research or art rank, and date of last rank appointment	(Full) Professor, 17.5.2002
Research-and-teaching, art-and-	(Full) Professor, 17.5.2002
teaching or teaching rank, and date	
of last rank appointment	
Area and field of election into research or art rank	Social science, Economics
INFORMATION ON CURRENT EMP	LOYMENT
Institution where employed	University of Split, Faculty of Economics
Date of employment	1.10.1974.
Name of position (professor,	Professor
researcher, associate teacher, etc.)	
Field of research	Macroeconomics, Regional economics, Quantitative
	economics, Political economics
Function	
INFORMATION ON EDUCATION - H	lighest degree earned
Degree	PhD
Institution	Faculty of Economics
Place	Zagreb, Croatia
Date	1.12.1980.
INFORMATION ON ADDITIONAL TR	AINING
Year	
Place	
Institution	
Field of training	
MOTHER TONGUE AND FOREIGN	
Mother tongue	Croatian
Foreign language and command of	English 3
foreign language on a scale from 2 (sufficient) to 5 (excellent)	
Foreign language and command of	Italian 2
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURSE	
Earlier experience as course	Macroeconomics I, II, III, Advance Macroeconomics
teacher of similar courses (name	
title of course, study programme	
where it is/was offered, and level of	
study programme)	
Authorship of university/faculty	Filipić, P. (2012) <i>Ekonomski paradoksi</i> , Jesenski i Turk, Zagreb,
textbooks in the field of the course	str. 367
Professional, scholarly and artistic	Filipić, P. (2012) Ekonomski paradoksi, Jesenski i Turk, Zagreb,
articles published in the last five	str. 367.

years in the field of the course (5 works at most)	Filipić, P. (2013) Anatomija destrukcije – Politička ekonomija visokog školstva u Hrvatskoj, Jesenski i Turk, Zagreb, str. 255.
	Filipić, P. (2015) <i>Economic Effects of the Capital City</i> , 11th International Conference Challenges of Europe, Split – Hvar, May 27-29, p.28.
	Filipić, P. (2016) <i>The estimate of regional balances of payments in Croatia, F</i> inancial Theory and Practice 40 (1) 85-128.
	Filipić, P. (2017) On political business cycles in the Croatian economy, or are HDZ and SDP "the same", 12th International Conference "Challenges of Europe: Innovative Responses for Resilient Growth and Competitiveness", 17 - 19 May, Bol - Island Brač
Professional and scholarly articles published in the last five years in subjects of teaching methodology and teaching quality (5 works at	Filipić, P. (2013) Ocjena mjesta i uloge ekonomskog visokog obrazovanja u visokom obrazovanju Hrvatske, u zborniku radova Ekonomsko obrazovanje u Republici Hrvatskoj – jučer, danas, sutra, ur: V. Čavrak i T. Gelo, zagreb, str. 39-54.
most)	Filipić, P. (2016) <i>Mjesto i uloga studija Ekonomija na Ekonomskim fakultetima u RH,</i> 6. Interkatedarski sastanak katedri za opću/teorijsku ekonomiju 27. 5. Ekonomski fakultet Split
Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)	2017. – Effects of Economic Disasters funded by Croatian Science Foundation
The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences.	Development of pedagogical competences of University teachers, University of Split, Faculty of Philosophy. (1979)
PRIZES AND AWARDS, STUDENT	EVALUATION
Prizes and awards for teaching and	Last three:
scholarly/artistic work	(2010) University of Split for contribution in university development
	(2013) The prize for Science – lifetime achievement award, Slobodna Dalmacija
	(2013) The prize for Science – lifetime achievement award, Ekonomski fakultet 2013
Results of student evaluation taken in the last five years for the course that is comparable to the course described in the form (evaluation organizer, average grade, note on grading scale and course evaluated)	Organizer: University of Split Average grade: 4 Grading scale: 1-5

First and last name and title of	First and last name and title of		
teacher	Nikola Gjeldum, Ph. D., Assistant Professor		
The course he/she teaches in the			
proposed study programme	Design for Manufacturing		
GENERAL INFORMATION ON COL			
Address	Mosećka 6, Split, Hrvatska		
Telephone number	+385914305934		
E-mail address	nikola.gjeldum@fesb.hr		
Personal web page	http://marjan.fesb.hr/~ngjeldum/		
Year of birth	1979		
Scientist ID	287306		
Research or art rank, and date of	Senior Research Associate, 20/3/2011		
last rank appointment			
Research-and-teaching, art-and-			
teaching or teaching rank, and	Assistant Professor, 15/6/2016		
date of last rank appointment			
Area and field of election into	Technical Sciences, Field Mechanical engineering		
research or art rank			
INFORMATION ON CURRENT EMP	PLOYMENT		
Institution where employed	University of Split, Faculty of Electrical Engineering,		
	Mechanical Engineering and Naval Architecture		
Date of employment	14/5/2006		
Name of position (professor,	Assistant professor		
researcher, associate teacher,			
etc.)			
Field of research	Manufacturing technology, production organization, plant		
	layout, design for manufacturing and assembly		
Function	Assistant professor		
INFORMATION ON EDUCATION -	Highest degree earned		
Degree	PhD		
Institution	University of Split, Faculty of Electrical Engineering,		
	Mechanical Engineering and Naval Architecture		
Place	Split		
Date	25/02/2011		
INFORMATION ON ADDITIONAL T			
Year	2009		
Place	Aachen, Germany		
Institution	RWTH WZL Aachen		
Field of training	Optimization of manufacturing processes		
MOTHER TONGUE AND FOREIGN			
Mother tongue	Croatian		
Foreign language and command of	English (4) (very good)		
foreign language on a scale from 2			
(sufficient) to 5 (excellent)			
Foreign language and command of			
foreign language on a scale from 2			
(sufficient) to 5 (excellent)			
Foreign language and command of			
foreign language on a scale from 2			
(sufficient) to 5 (excellent)			
COMPETENCES FOR THE COURSE			

Earlier experience as course teacher of similar courses (name	Manufacturing process planning
title of course, study programme	Mechanical engineering 1. year of graduate study
where it is/was offered, and level	1. year of graduate study
of study programme)	
Authorship of university/faculty	-
textbooks in the field of the course	
Professional, scholarly and artistic articles published in the last five years in the field of the course (5 works at most)	<ol> <li>Gjeldum, Nikola; Bilić, Boženko; Kujundžić, Fabris. Application of modified value stream mapping tool for restructuring of make-to-order production system // CIM 2013</li> <li>Computer Integrated Manufacturing and High Speed Machining / Abele, Eberhard ; Udiljak, Toma ; Ciglar, Damir (ur.). Zagreb : Croatian Association of Production Engineering, 2013. 113-118</li> <li>Gjeldum, Nikola; Veža, Ivica; Beram Žana.</li> </ol>
	Design Tool For Solar Panels Product Customization // Proceedings of the 5th International Conference on Mass Customization and Personalization in Central Europe (MCP- CE 2012) / Anišić, Zoran ; Freund, Robert (ur.). Novi Sad : Faculty of Technical Sciences in Novi Sad, 2012. 82-87
	<ol> <li>Gjeldum, Nikola; Veža, Ivica; Bilić, Boženko.</li> <li>Simulation of production process reorganized with value stream mapping. // Tehnički vjesnik : znanstveno-stručni časopis tehničkih fakulteta Sveučilišta u Osijeku. 18 (2011) , 3; 341-347</li> </ol>
	4. Štefanić, Nedeljko; Gjeldum, Nikola; Mikac, Tonči. Lean Concept Application in Production Busines. // Technical Gazzete, Tehnički vjesnik : znanstveno-stručni časopis tehničkih fakulteta Sveučilišta u Osijeku. 17 (2010), 3; 353- 356
Professional and scholarly articles published in the last five years in subjects of teaching methodology and teaching quality (5 works at most)	-
Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)	Collaboration with industry – implementation of production reorganizationimplementacija, improvement of production and assembly processes and products: FEAL d.o.o. Široki Brijeg, Bosnia and Herzegovina, - production and assebbly of alluminium parts DALSTROJ d.d. production and assembly of winches BRODOTROGIR d.d. shipyard KONČAR – production and assembly of power transformers
The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences	
PRIZES AND AWARDS, STUDENT	EVALUATION
Prizes and awards for teaching and scholarly/artistic work	Scientific award Festo: Young researcher and scientist support scolarship, kao autoru nagrađenog rada, dodijeljena na 19. DAAAM International Symposium on Intelligent Manufacturing & Automation, Trnavi, Slovakia, 22-

	25.10.2008.
Results of student evaluation taken	None
in the last five years for the course	
that is comparable to the course	
described in the form (evaluation	
organizer, average grade, note on	
grading scale and course	
evaluated)	

First and last name and title of teacher	Nikola Godinović, Ph.D., Associate Professor
The course he/she teaches in the proposed study programme	Physics
GENERAL INFORMATION ON C	OURSE TEACHER
Address	Omiška 20, 21000 Split
Telephone number	0915195314
E-mail address	nikola.godinovic@fesb.hr
Personal web page	
Year of birth	1959
Scientist ID	129696
Research or art rank, and date of last rank appointment	
Research-and-teaching, art-and- teaching or teaching rank, and date of last rank appointment	Associate Professor, 11.3.2016.
Area and field of election into research or art rank	Area of natural sciences, field of physics
INFORMATION ON CURRENT E	MPLOYMENT
	University of Split
	Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture
Institution where employed	R. Boškovića 32
	21000 Split
	Croatia
Date of employment	1.1.1985.
Name of position (professor, researcher, associate teacher, etc.)	professor
Field of research	Physics

Function	Head of the Department of Mathematichs and Physics	
INFORMATION ON EDUCATION	- Highest degree earned	
Degree	PhD	
Institution	University of Zagreb	
Place	Croatia, Zagreb	
Date	30.11.2003.	
INFORMATION ON ADDITIONAL	. TRAINING	
Year	1995. – 2017. god.	
Place	Geneva	
Institution	CERN	
Field of training	Experimenatal Elementary Particle Physics	
MOTHER TONGUE AND FOREIGN LANGUAGES		
Mother tongue	Croatian	
Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)	English 5	
Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)	Italian 4	
Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)	German 2	
COMPETENCES FOR THE COURSE		
Earlier experience as course teacher of similar courses (name title of course, study programme where it is/was offered, and level of study programme)	Nuclear physcis, Experimtnal Methods of Moderan Physics, graduate program, University of Split, Fcaulty of Scince.	
Authorship of university/faculty textbooks in the field of the	Faculty text book:	

course	Instructions for laboratory exercises in Physics 1
	Instructions for laboratory exercises in Physics 1
Professional, scholarly and artistic articles published in the last five years in the field of the course (5 works at most)	<ol> <li>Teraelectronvolt pulsed emission from the Crab Pulsar detected by MAGIC, MAGIC Collaboration, Ansoldi, S.; et al., . (Authors: MAGIC collaboration), Astronomy and Astrophysics 585, Article Number: A133 (2016) IF: 4.479.</li> <li>The major upgrade of the MAGIC telescopes, Part I: The hardware improvements and the commissioning of the system, (Authors: MAGIC Collaboration,) Astroparticle Physics 72, pages: 61-75 (2016) IF: 3.584.</li> <li>The major upgrade of the MAGIC telescopes, Part II: A performance study using observations of the Crab Nebula, (Authors: MAGIC Collaboration), Astroparticle Physics 72, pages: 76-94 (2016) IF: 3.584.</li> <li>Measurement of the properties of a Higgs boson in the four-lepton final state, By: Chatrchyan, S.; Khachatryan, V.; Sirunyan, A. M.; et al., Group Author(s): CMS Collaboration, Physical Review D 89, Issue: 9, Article Number: 092007 (2014) IF: 4.506</li> <li>Study of the Mass and Spin-Parity of the Higgs Boson Candidate via Its Decays to Z Boson Pairs, S. Chatrchyan et al. (CMS Collaboration), Physical Review Letters 110, 081803 – Published 21 February 2013; Erratum Phys. Rev. Lett. 110, 189901 (2013). IF: 7.512.</li> </ol>
Professional and scholarly articles published in the last five years in subjects of teaching methodology and teaching quality (5 works at most)	None
Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)	<ul> <li>HRZZ Research Projects (IP-11-2013), Croatian Sicnece Foundation zaklada za znanost (1.10.2014. god. – 30.9.2018. god.).</li> <li>HRZZ Research Projects (Very high energy gamma ray astronomy with the MAGIC telescopes), Croatian Sic nece Foundation zaklada za znanost (1.7.2012. god. – 31.12.2016. ).</li> </ul>

The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological-didactic-pedagogical group of competences?		
PRIZES AND AWARDS, STUDENT EVALUATION		
Prizes and awards for teaching and scholarly/artistic work	Slobodna Dalmacija "Science Award"	
Results of student evaluation taken in the last five years for the course that is comparable to the course described in the form (evaluation organizer, average grade, note on grading scale and course evaluated)		

First and last name and title of	
teacher	lvica Jurić-Grgić, Ph. D., Associate Professor
The course he/she teaches in the	
proposed study programme	Electrical Engineering
GENERAL INFORMATION ON COU	RSE TEACHER
Address	Pujanke 59, 21000 Split, Croatia
Telephone number	+385 21 305-811
E-mail address	ijuricgr@fesb.hr
Personal web page	-
Year of birth	1977.
Scientist ID	248792
Research or art rank, and date of	Senior scientific associate, 12/7/2012
last rank appointment	
Research-and-teaching, art-and-	
teaching or teaching rank, and date	Associate Professor, 20/9/2016
of last rank appointment	
Area and field of election into	Technical Sciences, Field Electrical engineering
research or art rank	
INFORMATION ON CURRENT EMP	
Institution where employed	Faculty of Electrical Engineering, Mechanical Engineering and
	Naval Architecture
Date of employment	23/9/2001
Name of position (professor,	Associate Professor
researcher, associate teacher, etc.)	
Field of research	Power engineering
Function	-
<b>INFORMATION ON EDUCATION – </b>	Highest degree earned
Degree	PhD
Institution	Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture
Place	Split
Date	10/3/2008
INFORMATION ON ADDITIONAL TR	RAINING
Year	-
Place	-
Institution	-
Field of training	-
MOTHER TONGUE AND FOREIGN	LANGUAGES
Mother tongue	Croatian
Foreign language and command of	
foreign language on a scale from 2	English (4)
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURS	
Earlier experience as course	Electrical Machines 1, Graduate study programme.
teacher of similar courses (name	Testing of electrical installation, Graduate study programme.
title of course, study programme	Electrical safety, Undergraduate study programme.
where it is/was offered, and level of	Electrical engineering, Undergraduate study programme.
study programme)	
Authorship of university/faculty	-
textbooks in the field of the course Professional, scholarly and artistic	e Jurió Craió La Lució Da Debro Mailla courted
articles published in the last five	<ul> <li>Jurić-Grgić, I.; Lucić, R.; Dabro, M.: "A coupled nonuniform transmission line analysis using FEM",</li> </ul>
years in the field of the course (5	International Transactions on Electrical Energy
works at most)	Systems, Vol.23 (8), 2013, pp. 1365–1372.
	<ul> <li>Lucić, R.; Jurić-Grgić, I.; Balaž, Z.: "Grounding grid</li> </ul>

Professional and scholarly articles published in the last five years in subjects of teaching methodology and teaching quality (5 works at most) Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)	<ul> <li>transient analysis using the improved transmission line model based on the finite element method", ETEP: European Transactions on Electrical Power, Vol.23 (2), 2013, pp. 282–289.</li> <li>Dabro, M.; Jurić-Grgić, I.; Martinović, M.: "Improvement of Synchronous Generator Power Stability Using Hydraulic Digital Governor", International Journal on Engineering Applications (IREA), Vol. 1 (5), 2013, pp. 263-267.</li> <li>Dabro, M.; Jurić-Grgić, I.; Lucić, R.: "Optimization of Hydraulic Digital Governor parameters using EMTP-RV", International Journal on Engineering Applications (IREA), Vol. 1 (5), 2013, pp. 263-267.</li> <li>Dabro, M.; Jurić-Grgić, I.; Lucić, R.: "Optimization of Hydraulic Digital Governor parameters using EMTP-RV", International Journal on Engineering Applications (IREA), Vol. 1 (2), 2013, pp. 90-93.</li> <li>Dabro, M.; Jurić-Grgić, I.; Lucić, R.: "EMTP-RV Model of Hydraulic Digital Governor", International Review on Modelling and Simulations (IREMOS), Vol. 4 (6), 2011, pp. 1-5.</li> <li>Study: Elaborat iznošenja potencijala i izračun napona dodira i koraka za EVP 110/25 kV Novska, Naručitelj: Projektni biro Split, 2010.</li> <li>Project: 023 0231581-1610, "Numeričko modeliranje elektroenergetskog sustava tehnikom konačnih elemenata", br. 023 0231581-1610, Ministarstvo znanosti, obrazovanja i športa Republike Hrvatske, 20072011.</li> <li>Study: Izrada pravila i mjera sigurnosti za osiguranje mjesta rada na elektroenergetskim vodovima, Naručitelj: HEP OPS d.o.o., Prijenosno područje Split,</li> </ul>
The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences?-pedagoške kompetencije?	- 2013.
PRIZES AND AWARDS, STUDENT	EVALUATION
Prizes and awards for teaching and	-
scholarly/artistic work Results of student evaluation taken	
in the last five years for the course	
that is comparable to the course described in the form (evaluation	-
organizer, average grade, note on	
grading scale and course evaluated)	

First and last name and title of	Pronko Klarin Ph. D. Full Professor
teacher	Branko Klarin, Ph. D., Full Professor
The course he/she teaches in the proposed study programme	Fluid mechanics
GENERAL INFORMATION ON COU	RSE TEACHER
Address	A. Hebranga 7, 23000 Zadar
Telephone number	091-6305950
E-mail address	Branko.Klarin@fesb.hr
Personal web page	www.fesb.hr/~bklarin
Year of birth	1962.
Scientist ID	3118339
Research or art rank, and date of	Scientific advisor, 11.05.2011.
last rank appointment	
Research-and-teaching, art-and-	Professor, 17.02.2016.
teaching or teaching rank, and date	
of last rank appointment	Taskaiselesionase masking anginasing
Area and field of election into	Technical sciences, machine engineering
research or art rank	
INFORMATION ON CURRENT EMP	
Institution where employed	Fakultet elektrotehnike, strojarstva i brodogradnje - Split
Date of employment	01.06.1991.
Name of position (professor,	Professor
researcher, associate teacher, etc.)	
Field of research	Renewable energy systems
Function	
INFORMATION ON EDUCATION - H	
Degree	D.sc.
Institution	Fakultet elektrotehnike, strojarstva i brodogradnje - Split
Place	Split
Date	03.12.2004.
INFORMATION ON ADDITIONAL TR	RAINING
Year	
Place	
Institution	
Field of training	
MOTHER TONGUE AND FOREIGN	LANGUAGES
Mother tongue	Croatian
Foreign language and command of	English, 4
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	Cormon 2
(sufficient) to 5 (excellent) Foreign language and command of	German, 2
(sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2	German, 2
(sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)	German, 2
(sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of	German, 2
(sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)	German, 2
(sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)	
(sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) COMPETENCES FOR THE COURS	
(sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) COMPETENCES FOR THE COURS Earlier experience as course	
(sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) COMPETENCES FOR THE COURS Earlier experience as course teacher of similar courses (name	
(sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) COMPETENCES FOR THE COURS Earlier experience as course	
(sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) COMPETENCES FOR THE COURS Earlier experience as course teacher of similar courses (name title of course, study programme	
(sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) COMPETENCES FOR THE COURS Earlier experience as course teacher of similar courses (name title of course, study programme where it is/was offered, and level of	
(sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) COMPETENCES FOR THE COURS Earlier experience as course teacher of similar courses (name title of course, study programme where it is/was offered, and level of study programme)	E

articles published in the last five years in the field of the course (5 works at most)	<ul> <li>Hybrid wind-power-distillation plant. // Thermal Science. 16</li> <li>(2012), 1; 249-259</li> <li>2. Klarin, Branko; Dalia Milić Kralj, Wing sails for hybrid propulsion of the ships // International Congress Energy and the Environment Opatija 2014, Rijeka, 2014. 339-350</li> <li>3. Garafulić, E.; Klarin, B.: Prihvatljivi način pohrane ugljikovog dioksida U Republici Hrvatskoj, Tehnički vjesnik, 2013.</li> </ul>
Professional and scholarly articles published in the last five years in subjects of teaching methodology and teaching quality (5 works at most)	
Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)	
The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences?-pedagoške kompetencije?	ME4CataLOgue – Croatian catalogue of knowledge, skills and competences for mechine engineering studies based on learning outcomes – Training for teachers and administrative personel
PRIZES AND AWARDS, STUDENT I	EVALUATION
Prizes and awards for teaching and scholarly/artistic work	
Results of student evaluation taken in the last five years for the course that is comparable to the course described in the form (evaluation organizer, average grade, note on grading scale and course evaluated)	4.8/5 Dean's acknowledgement for best ranked 10% teachers in institution

First and last name and title of teacher	Mirjana M. Kovač, Ph.D., Assistant Professor
The course he/she teaches in the proposed study programme	English Language1, English Language 2 Industrial Engineering
GENERAL INFORMATION ON COU	RSE TEACHER
Address	Put sv. Lovre 35, 21215 Kaštel Lukšić
Telephone number	021 305715
E-mail address	Mirjana.Kovac@fesb.hr
Personal web page	
Year of birth	1971
Scientist ID	297 640
Research or art rank, and date of	297 640
last rank appointment	Research Associate
Research-and-teaching, art-and- teaching or teaching rank, and date of last rank appointment	Assistant Professor, February, 2012
Area and field of election into research or art rank	Humanities and Social Sciences; Philology
INFORMATION ON CURRENT EMP	LOYMENT
Institution where employed	Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture, Split
Date of employment	June, 2006
Name of position (professor,	Professor
researcher, associate teacher, etc.) Field of research	
	Communication skills, speech production and speech disfluencies, communication strategies
Function	
INFORMATION ON EDUCATION – H	
Degree	PhD Foculty of Dhilosophy, University of Zorych
Institution Place	Faculty of Philosophy, University of Zagreb Zagreb
Date	10 <sup>th</sup> March, 2010
INFORMATION ON ADDITIONAL TR	
Year	
Place	
Institution	
Field of training	
MOTHER TONGUE AND FOREIGN	LANGUAGES
Mother tongue	Croatian
Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)	English (5)
Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)	German (5)
Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURS	F
Earlier experience as course	
teacher of similar courses (name	
title of course, study programme	
where it is/was offered, and level of	

study programme)	
Authorship of university/faculty	1.Kovač, M.M.; Sirković, N. Presentation, Writing and
textbooks in the field of the course	Interpersonal Communication Skills. FESB, Split, 2014.
	2.Kovač, Mirjana M.; Sirković, Nina. Strategije rješavanja
	poteškoća u komunikaciji na stranom jeziku.
Professional, scholarly and artistic	Hrvatska sveučilišna naklada, Zagreb (2015)
articles published in the last five	1.Kovač, Mirjana Matea; Sirković, Nina.
years in the field of the course (5	Peer Evaluation of Oral Presentations in Croatia. // English
works at most)	Language Teaching. 5 (2012) , 7; 8-17 (scientific paper).
	2.Kovač, Mirjana Matea.
	Utjecaj kognitivne složenosti zadatka na samoispravljanja. //
	Linguistica Copernicana. 5 (2011) , 1; 269-300 (scientific
	paper).
	3.Kovač, Mirjana Matea; Horga, Damir.
	Ponavljanja kao oblik govorne disfluentnosti. // Linguistica
	Copernicana. 5 (2011) , 1; 245-267 (scientific paper).
	4. Kovač, Mirjana Matea. The Influence of Task Type on
	Perceived Fluency. // Studies in English Language Teaching. 4
	(2016), 2; 241-253 (scientific paper).
	5. Kovač, Mirjana Matea. Repetition as a Communication
	Strategy. // Studies in English Language Teaching. 4 (2016), 1;
	87-104 (scientific paper).
Professional and scholarly articles	1 Kovač Mirjana Matoa: Sirković Nina
published in the last five years in	1.Kovač, Mirjana Matea; Sirković, Nina. Peer Evaluation of Oral Presentations in Croatia. // English
subjects of teaching methodology	Language Teaching. 5 (2012), 7; 8-17 (scientific paper).
and teaching quality (5 works at	$[$ Language reaching. $(2012)$ , $(, 0^{-17})$ (Scientific paper).
most) Professional, science and artistic	
projects in the field of the course	
carried out in the last five years (5	
at most)	
The name of the programme and	
the volume in which the main	
teacher passed exams in/acquired	Graduate study program in English Language and Literature;
the methodological-psychological-	Graduate study program in German Language and Literature
didactic-pedagogical group of competences?-	
pedagoškekompetencije?	
PRIZES AND AWARDS, STUDENT	EVALUATION
Prizes and awards for teaching and	
scholarly/artistic work	
Results of student evaluation taken	
in the last five years for the course	
that is comparable to the course	
described in the form (evaluation	
organizer, average grade, note on grading scale and course	
evaluated)	
	<u> </u>

First and last name and title of teacher	Nikša Krnić, Associate Professor, Ph. D.
The course he/she teaches in the proposed study programme	Testing of materials, Modern material processing technologies
GENERAL INFORMATION ON COURSE	TEACHER
Address	Ruđera Boškovića 32
Telephone number	+38521305912
E-mail address	nkrnic@fesb.hr
Personal web page	-
Year of birth	1956.
Scientist ID	122696
Research or art rank, and date of last rank appointment	Research scientist, 2011.
Research-and-teaching, art-and- teaching or teaching rank, and date of last rank appointment	Associate Professor, 2011., in re-election process
Area and field of election into research or art rank	Technical sciences, Mechanical Engineering
INFORMATION ON CURRENT EMPLO	YMENT
Institution where employed	University of Split, FESB
Date of employment	1984.
Name of position (professor, researcher, associate teacher, etc.)	Associate Professor
Field of research	Production technologies
Function	-
INFORMATION ON EDUCATION - Hig	hest degree earned
Degree	Ph. D.
Institution	FSB, Zagreb
Place	Zagreb
Date	1999.
INFORMATION ON ADDITIONAL TRAI	NING
Year	1988. – 1989.; 1992.
Place	Berlin, Njemačka
Institution	Technische Universitat Berlin, Fuege- und Schweisstechnik
Field of training	Underwater Welding; Welding
MOTHER TONGUE AND FOREIGN LAN	IGUAGES
Mother tongue	Croatian
Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)	English, 4
Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)	German, 4
Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)	French, 2
COMPETENCES FOR THE COURSE	

Earlier experience as course title of course, study programme where it is/was offered, and level of study programme)       Performed, proposed and upgraded more similar or new courses on Undergraduate, Bachelor and Graduate studies on professional Studies in Split, University of Applied Sciences in Velkika Gorica, Study of Underwater Science and Technology on the University of Zadar         Authorship of university/faculty textbooks in the field of the course       1.       Duplančić, I.; Krnić, N.: "Materijali 3", Split, 2011., electronic book, FESB, e - learning portal, 2.       2.         Nuthorship of university/faculty textbooks in the field of the course       1.       Duplančić, I.; Krnić, N.: Bajić, D.: Osnove tehnologijå, Split, 2008, electronic book, FESB, e - learning portal, 2.       2.       Duplančić, I.; Krnić, N.: Bajić, D.: Osnove tehnologijå, Split, 2008, electronic book, FESB, e - learning portal         1.       Krnić, N.: Suvremene laserske tehnologije obrade materijala, Drukto inženjera strojarstva Split, DISS, Split, 2012., invited lecture         3.       Kordić, Z.; Krnić, N.: Trends in Application of Composite Materials for Helicopter Rotor Blades, Proceedings of 2nd Conf. on Business Systems Management – UPS 2001, DAAAM, Mostar, 2001.         4.       Krnić, N.; Dorn, L.; Kralj, S.: Welding Processes in Modern Shipbuilding Industry, Proc. of the 3rd International Conf. Welding and Off-line Programming for Metal Additive Layer Manufacturing, 41st Int. Conf. on Welding – Modern Joining Processional, scholarly and artistice published in the last five years in the field of the course carried out in the last five years in the field of the course carried out in the last five years (5 at most)       ME4CataLOgoue (Mechanical En		
title of zourse, study programme       FESB, Faculty of Maritime Studies in Split, University Oept. of professional Studies in Split, University Oept. of the University of Zadar         Authorship of university/faculty textbooks in the field of the course       I. Duplančić, I.; Krnić, N.: "Materijali 3", Split, 2011., electronic book, FESB, e - learning portal,         2.       Duplančić, I.; Krnić, N.: Bajić, D.: Osnove tehnologijå, Split, 2008., electronic book, FESB, e - learning portal,         3.       Krnić, N.: Additive Layer Manufacturing Based on Robotic Electric-Arc Welding and Wire Feedstock, 41st Int. Conf. on Welding - Modern Joining Processe, Development of Filler Materials and Simulations, Opatija, June 2016.         2.       Krnić, N.: Suvremene laserske tehnologije obrade materijala, Društvo inženjera strojarstva Split, DISS, Split, 2012., invited lecture         3.       Kordić, Z.; Krnić, N.: Trends in Application of Composite Materials for Helicopter Rotor Biades, Proceedings Of 2nd Conf. On Busines Systems Management – UPS 2001, DAAAM, Mostar, 2001.         4.       Krnić, N.; Born, L.; Kralj, S.: Welding Processes in Modern Shipbuilding Industry, Proc. of the 3rd International Conf. Welding and Off-line Programming for Metal Additive Layer Manufacturing, 41st Int. Conf. on Welding – Modern Joining Processes in Modern Joining Processes, Development of Filler Materials and Simulations, Opatija, June 2016.         Professional, scholarly and artistic articles published in the last five years in subjects of teaching methodology and feaching methodology and feaching method		
where it is/was offered, and level of study programme)         Professional Studies in Splitu, University of Applied Sciences in Velika Gorica, Study of Underwater Science and Technology on the University of Zadar           Authorship of university/faculty textbooks in the field of the course         1.         Duplančić, 1; Krnić, N: "Materijali 3", Split, 2011., electronic book, FESB, e - learning portal, 2.         Duplančić, 1; Krnić, N: Bajć, D: Osnove tehnologijå, Split, 2008, electronic book, FESB, e - learning portal           1.         Krnić, N.: Additive Layer Manufacturing Based on Robitic Electric-Arc Welding and Wire Feedstock, 41st Int. Conf. on Welding – Modern Joining Processes, Development of Filler Materials and Simulations, Opatija, June 2016.           2.         Krnić, N.: Suvreme laserske tehnologije obrade materijala, Društvo inženjera strojarstva Split, DISS, Split, 2012., invited lecture           3.         Kordić, Z.; Krnić, N.: Trends in Application of Composite Materials for Helicopter Rotor Blades, Proceedings of 2nd Conf. on Business Systems Management – UPS 2001, DAAAM, Mostar, 2001.           4.         Krnić, N.; Bekavac, T.: Robotic Gas Metal Arc Welding in Maritime Engineering, Hvar, Croatia, 2004, HDTZ, CWS, pp. 523 - 532, ISBN 953-96454-6-8.           5.         N. Krnić, N.; Bekavac, T.: Robotic Gas Metal Arc Welding and Off-line Programming for Metal Additive Layer Manufacturing, 41st Int. Conf. on Welding – Modern Joining Professional and scholarly and artistic articles published in the last five years (5 at most)           Professional, scholarly and artistic articles published in the last five years (5 at most)         ME4CataLOgoue (Mechanical Engineering for Catalogue)	•	-
study programme)       Professional Studies in Spirit, University of Applied Sciences in the University of Zadar         Authorship of university/faculty textbooks in the field of the course       I. Duplančić, I.; Krnić, N.: "Materijali 3", Split, 2011., electronic book, FESB, e - learning portal,         2.       Duplančić, I.; Krnić, N.: Materijali 3", Split, 2011., Split, 2008., electronic book, FESB, e - learning portal,         2.       Duplančić, I.; Krnić, N.: Addittve Layer Manufacturing Based on Robotic Electric-Arc Welding and Wire Feedstock, 41st Int. Conf. on Welding – Modern Joining Processes, Puelopment of Filler Materials and Simulations, Opatija, June 2016.         2.       Krnić, N.: Suvremene laserske tehnologije obrade materijala, Društvo inženjera strojarstva Split, DISS, Split, 2011., Junited lecture         3.       Kordić, Z.; Krnić, N.: Trends in Application of Composite Materials for Helicopter Rotor Blades, Proceedings of 2nd Conf. on Business Systems Management – UPS 2001, DAAAM, Mostar, 2001.         4.       Krnić, N.; Dorn, L.; Kralj, S.: Welding Processes in Modern Shipbuilding Industry, Proc. of the 3rd International Conf. Welding and Off-line Programming for Metal Additive Layer Manufacturing, 41st Int. Conf. on Welding – Modern Joining Processes, Development of Filler Materials and Simulations, Opatija, June 2016.         Professional, scholarly and artistic articles published in the last five years in subjects of teaching methodology and feaching methodological-psychological-gical group of competences?		
the University of Zadar           Authorship of university/faculty textbooks in the field of the course         1. Duplančić, 1;, Krnić, N.: "Materijali 3", Split, 2011., electronic book, FESB, e - learning portal, 2. Duplančić, 1;, Krnić, N.: Bajić, D.: Osnove tehnologijå, Split, 2008, electronic book, FESB, e - learning portal           1.         Krnić, N.: Additve Uayer Manufacturing Baad on Robotic Electric-Arc Welding and Wire Feedstock, 41st Int. Conf. on Welding - Modern Joining Processes, Development of Filler Materials and Simulations, Opatija, June 2016.           2.         Krnić, N.: Suvremene laserske tehnologije obrade materijala, Društvo inženjera strojarstva Split, DISS, Split, 2012., invited lecture           3.         Kordić, Z; Krnić, N.: Trends in Application of Composite Materials for Helicopter Rotor Blades, Proceedings of 2nd Conf. on Business Systems Management – UPS 2001, DAAAM, Mostar, 2001.           4.         Krnić, N.; Dorn, L; Kralj, S: Welding Processes in Modern Shipbuilding Industry, Proc. of the 3rd International Conf. Welding in Maritime Engineering, Hvar, Croatia, 2004, HDT2, CWS, pp. 523 -532, ISBN 953-96454-6-8.           5.         N. Krnić, N.; Bekavac, T.: Robotic Gas Metal Arc Welding and Off-line Programming for Metal Additive Layer Manufacturing, 41st Int. Conf. on Welding – Modern Joining Processes, Development of Filler Materials and Simulations, Opatija, June 2016.           Professional, scholarly anticles published in the last five years in subjects of teaching methodology and teaching methodological-pseychological- didactic-pedagogical group of competences?<		
Authorship of university/faculty       1.       Duplančić, I.; Krnić, N.: "Materijali 3", Split, 2011., electronic book, FESB, e – learning portal,         2.       Duplančić, I.; Krnić, N.; Bajić, D.: Osnove tehnologijå, Split, 2008., electronic book, FESB, e – learning portal         1.       Krnić, N.: Additive Layer Manufacturing Based on Robotic Electric-Arc Welding and Wire Feedstock, 41st Int. Conf. on Welding – Modern Joining Processes, Development of Filler Materials and Simulations, Opatija, June 2016.         2.       Krnić, N.: Suvmene laserske tehnologije obrade materijala, Društvo inženjera strojarstva Split, DISS, Split, 2012., invited lecture         3.       Kordić, Z.; Krnić, N.: Trends in Application of Composite Materials for Helicopter Rotor Blades, Proceedings of 2nd Conf. on Business Systems Management – UPS 2001, DAAAM, Mostar, 2001.         4.       Krnić, N.; Born, L.; Kralj, S.: Welding Processes in Modern Shipbuilding Industry, Proc. of the 3rd International Conf. Welding and Off-line Programming for Metal Additive Layer Manufacturing, 41st Int. Conf. on Welding – Modern Joining Processes, Development of Filler Materials and Simulations, Opatija, June 2016.         Professional, scholarly and artistic articles published in the last five years in the field of the course (5 works at most)       ME4CataLOgoue (Mechanical Engineering for Catalogue)         Professional, scholarly and artistic articles published in the last five years in the field of the course (5 works at most)       ME4CataLOgoue (Mechanical Engineering for Catalogue)         Professional, scholarly and restrice specified at the course (5 works at most)       ME4CataLOgoue (Mechanical Engineering		
textbooks in the field of the course       electronic book, FESB, e – learning portal,         2.       Duplančić, I.; Krnić, N.; Bajić, D.: Osnove tehnologijá, Split, 2008., electronic book, FESB, e – learning portal         1.       Krnić, N.: Additive Layer Manufacturing Based on Robotic Electric-Arc Welding and Wire Feedbock, 41st Int. Conf. on Welding – Modern Joining Processes, Development of Filler Materials and Simulations, Opatija, June 2016.         2.       Krnić, N.: Suvremene laserske tehnologije obrade materijala, Društvo inženjera strojarstva Split, DISS, Split, 2012., invited lecture         3.       Kordić, Z.; Krnić, N.: Trends in Application of Composite Materials for Helicopter Rotor Blades, Proceedings of 2nd Conf. on Business Systems Management – UPS 2001, DAAAM, Mostar, 2001.         4.       Krnić, N.; Born, L.; Kralj, S.: Welding Processes in Modern Shipbuilding Industry, Proc. of the 3rd International Conf. Welding in Maritime Engineering, Hvar, Croatia, 2004, HDTZ, CWS, pp. 523 - 532, ISBN 953-96454-68.         5.       N. Krnić, N.; Bekavac, T.: Robotic Gas Metal Arc Welding and Off-line Programming for Metal Additive Layer Manufacturing, 41st Int. Conf. on Welding – Modern Joining Processes, Development of Filler Materials and Simulations, Opatija, June 2016.         Professional, scholarly and artistic articles published in the last five years in the field of the course (5 works at most)       ME4CataLOgoue (Mechanical Engineering for Catalogue)         Professional, science and artistic projects in the field of the course (5 at most)       ME4CataLOgoue (Mechanical Engineering for Catalogue)         The name of the programme and the volume i		
1.Krnić, N.: Additive Layer Manufacturing Based on Robotic Electric-Arc Welding and Wire Feedstock, 41st Int. Conf. on Welding – Modern Joining Processes, Development of Filler Materials and Simulations, Opatija, June 2016. 2.2.Krnić, N.: Suvremene laserske tehnologije obrade materijala, Društvo inženjera strojarstva Split, DISS, Split, 2012., invited lecture 3.3.Kordić, Z.; Krnić, N.: Trends in Application of Composite Materials for Helicopter Rotor Blades, Proceedings of 2nd Conf. on Business Systems Management – UPS 2001, DAAAM, Mostar, 2001.4.Krnić, N.; Dorn, L.; Kralj, S.: Welding Processes in Modern Shipbuilding Industry, Proc. of the 3rd International Conf. Welding in Maritime Engineering, Hvar, Croatia, 2004, HDTZ, CWS, pp. 523 - 532, ISBN 953-96454-6-8. 5.5.N. Krnić, N.; Bekavac, T.: Robotic Gas Metal Arc Welding and Off-line Programming for Metal Additive Layer Manufacturing, 41st Int. Conf. on Welding – Modern Joining Processes, Development of Filler Materials and Simulations, Opatija, June 2016.Professional, scholarly and artistic projects in the field of the course (5 works at most)Meteralis Professional, science and artistic projects in the field of the course carried out in the last five years in subjects of teaching methodology and teaching quality (5 works at most)Professional, science and attistic projects in the field of the course carried out in the last five years (5 at most)Professional, science and attistic projects in the field of the course carried out in the last five years (5 at most)Professional, science and attistic projects in the field of the course carried out in the last five years (5 at most)Professional, science		electronic book, FESB, e – learning portal, 2. Duplančić, I.; Krnić, N.; Bajić, D.: Osnove tehnologijâ,
2012., invited lecture3.Kordić, Z.; Krnić, N.: Trends in Application of Composite Materials for Helicopter Rotor Blades, Proceedings of 2nd Conf. on Business Systems Management – UPS 2001, DAAAM, Mostar, 2001.4.Krnić, N.; Dorn, L.; Kralj, S.: Welding Processes in Modern Shipbuilding Industry, Proc. of the 3rd International Conf. Welding in Maritime Engineering, Hvar, Croatia, 2004, HDTZ, CWS, pp. 523 - 532, ISBN 953-96454-68.5.N. Krnić, N.; Bekavac, T.: Robotic Gas Metal Arc Welding and Off-line Programming for Metal Additive Layer Manufacturing, 41st Int. Conf. on Welding – Modern Joining Processes, Development of Filler Materials and Simulations, Opatija, June 2016.Professional, scholarly and artistic articles published in the last five years in the field of the course (5 works at most)MetAcataLOgoue (Mechanical Engineering for Catalogue)Professional, science and artistic projects in the field of the course (5 at most)ME4CataLOgoue (Mechanical Engineering for Catalogue)The name of the programme and the volume in which the main teacher pased exams in/acquired the methodological-psychological- didactic-pedagogical group of competences?ME4CataLOgoue (Mechanical Engineering for Catalogue)Prizes and awards for teaching and Award of the Croatian Welding SocietyAward of the Croatian Welding Society		1. Krnić, N.: Additive Layer Manufacturing Based on Robotic Electric-Arc Welding and Wire Feedstock, 41st Int. Conf. on Welding – Modern Joining Processes, Development of Filler Materials and Simulations, Opatija, June 2016.
3.       Kordić, Z.; Krnić, N.: Trends in Application of Composite Materials for Helicopter Rotor Blades, Proceedings of 2nd Conf. on Business Systems Management – UPS 2001, DAAAM, Mostar, 2001.         4.       Krnić, N.; Dorn, L.; Kralj, S.: Welding Processes in Modern Shipbuilding Industry, Proc. of the 3rd International Conf. Welding in Maritime Engineering, Hvar, Croatia, 2004, HDTZ, CWS, pp. 523 - 532, ISBN 953-96454-68.         5.       N. Krnić, N.; Bekavac, T.: Robotic Gas Metal Arc Welding and Off-line Programming for Metal Additive Layer Manufacturing, 41st Int. Conf. on Welding – Modern Joining Processes, Development of Filler Materials and Simulations, Opatija, June 2016.         Professional, scholarly and artistic articles published in the last five years in the field of the course (5 works at most)       Professional and scholarly articles published in the last five years in subjects of teaching methodology and teaching quality (5 works at most)       ME4CataLOgoue (Mechanical Engineering for Catalogue)         The name of the programme and the volume in which the main teacher pased exams in/acquired the methodological-psychological- didactic-pedagogical group of competences?       ME4CataLOgoue (Mechanical Engineering for Catalogue)         Prizes and awards for teaching and       Award of the Croatian Welding Society		
4.Krnić, N.; Dorn, L.; Kralj, S.: Welding Processes in Modern Shipbuilding Industry, Proc. of the 3rd International Conf. Welding in Maritime Engineering, Hvar, Croatia, 2004, HDTZ, CWS, pp. 523 - 532, ISB 953-96454-6-8. S.S.N. Krnić, N.; Bekavac, T.: Robotic Gas Metal Arc Welding and Off-line Programming for Metal Additive Layer Manufacturing, 41st Int. Conf. on Welding – Modern Joining Processes, Development of Filler Materials and Simulations, Opatija, June 2016.Professional, scholarly and artistic articles published in the last five years in the field of the course (5 works at most)Professional, scholarly articles published in the last five years in subjects of teaching methodology and teaching quality (5 works at most)Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences?PRIZES AND AWARDS, STUDENT EVALUATION Prizes and awards for teaching and Award of the Croatian Welding Society		3. Kordić, Z.; Krnić, N.: Trends in Application of Composite Materials for Helicopter Rotor Blades, Proceedings of 2nd Conf. on Business Systems Management – UPS 2001, DAAAM,
HDTZ, CWS, pp. 523 - 532, ISBN 953-96454-6-8.5.N. Krnić, N.; Bekavac, T.: Robotic Gas Metal Arc Welding and Off-line Programming for Metal Additive Layer Manufacturing, 41st Int. Conf. on Welding – Modern Joining Processes, Development of Filler Materials and Simulations, Opatija, June 2016.Professional, scholarly and artistic articles published in the last five years in the field of the course (5 works at most)Professional and scholarly articles published in the last five years in subjects of teaching methodology and teaching quality (5 works at most)Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences?PRIZES AND AWARDS, STUDENT EVALUATIONPrizes and awards for teaching and Award of the Croatian Welding Society		4. Krnić, N.; Dorn, L.; Kralj, S.: Welding Processes in Modern Shipbuilding Industry, Proc. of the 3rd International
Manufacturing, 41st Int. Conf. on Welding – Modern Joining Processes, Development of Filler Materials and Simulations, Opatija, June 2016.Professional, scholarly and artistic articles published in the last five years in the field of the course (5 works at most)Professional and scholarly articles published in the last five years in subjects of teaching methodology and teaching quality (5 works at most)Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences?PRIZES AND AWARDS, STUDENT EVALUATIONPrizes and awards for teaching and Award of the Croatian Welding Society		HDTZ, CWS, pp. 523 - 532, ISBN 953-96454-6-8. 5. N. Krnić, N.; Bekavac, T.: Robotic Gas Metal Arc
articles published in the last five         years in the field of the course (5         works at most)         Professional and scholarly articles         published in the last five years in         subjects of teaching methodology         and teaching quality (5 works at         most)         Professional, science and artistic         projects in the field of the course         carried out in the last five years (5         at most)         The name of the programme and         the volume in which the main         teacher passed exams in/acquired         the methodological-psychological-         didactic-pedagogical group of         competences?         PRIZES AND AWARDS, STUDENT EVALUATION         Prizes and awards for teaching and         Award of the Croatian Welding Society		Manufacturing, 41st Int. Conf. on Welding – Modern Joining Processes, Development of Filler Materials and Simulations,
years in the field of the course (5 works at most)Professional and scholarly articles published in the last five years in subjects of teaching methodology and teaching quality (5 works at most)Professional, science and artistic projects in the field of the course 		
works at most)Professional and scholarly articles published in the last five years in subjects of teaching methodology and teaching quality (5 works at most)Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences?PRIZES AND AWARDS, STUDENT EVALUATIONPrizes and awards for teaching and Award of the Croatian Welding Society		
Professional and scholarly articles published in the last five years in subjects of teaching methodology and teaching quality (5 works at most)         Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)         The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences?       ME4CataLOgoue (Mechanical Engineering for Catalogue)         PRIZES AND AWARDS, STUDENT EVALUATION       Prizes and awards for teaching and Award of the Croatian Welding Society		
published in the last five years in subjects of teaching methodology and teaching quality (5 works at most)Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences?PRIZES AND AWARDS, STUDENT EVALUATIONPrizes and awards for teaching and Award of the Croatian Welding Society	/	
subjects of teaching methodology and teaching quality (5 works at most)       Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)         The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences?       ME4CataLOgoue (Mechanical Engineering for Catalogue)         PRIZES AND AWARDS, STUDENT EVALUATION       Prizes and awards for teaching and Award of the Croatian Welding Society		
and teaching quality (5 works at most)         Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)         The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological-didactic-pedagogical group of competences?       ME4CataLOgoue (Mechanical Engineering for Catalogue)         PRIZES AND AWARDS, STUDENT EVALUATION       Prizes and awards for teaching and Award of the Croatian Welding Society		
Professional, science and artistic         projects in the field of the course         carried out in the last five years (5         at most)         The name of the programme and         the volume in which the main         teacher passed exams in/acquired         the methodological-psychological-         didactic-pedagogical group of         competences?         PRIZES AND AWARDS, STUDENT EVALUATION         Prizes and awards for teaching and         Award of the Croatian Welding Society		
projects in the field of the course carried out in the last five years (5 at most)ME4CataLOgoue (Mechanical Engineering for Catalogue)The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences?ME4CataLOgoue (Mechanical Engineering for Catalogue)PRIZES AND AWARDS, STUDENT EVALUATIONPrizes and awards for teaching and Award of the Croatian Welding Society		
carried out in the last five years (5 at most)ME4CataLOgoue (Mechanical Engineering for Catalogue)The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences?ME4CataLOgoue (Mechanical Engineering for Catalogue)PRIZES AND AWARDS, STUDENT EVALUATIONPrizes and awards for teaching and Award of the Croatian Welding Society		
at most)The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences?ME4CataLOgoue (Mechanical Engineering for Catalogue)PRIZES AND AWARDS, STUDENT EVALUATIONPrizes and awards for teaching andAward of the Croatian Welding Society		
The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological-didactic-pedagogical group of competences?       ME4CataLOgoue (Mechanical Engineering for Catalogue)         PRIZES AND AWARDS, STUDENT EVALUATION       Prizes and awards for teaching and Award of the Croatian Welding Society		
the volume in which the main       teacher passed exams in/acquired       the methodological-psychological-       didactic-pedagogical group of       competences?       PRIZES AND AWARDS, STUDENT EVALUATION       Prizes and awards for teaching and       Award of the Croatian Welding Society		MF4CataLOgoue (Mechanical Engineering for Catalogue)
the methodological-psychological- didactic-pedagogical group of competences?       PRIZES AND AWARDS, STUDENT EVALUATION         Prizes and awards for teaching and Prizes and awards for teaching and       Award of the Croatian Welding Society		
didactic-pedagogical group of competences?         PRIZES AND AWARDS, STUDENT EVALUATION         Prizes and awards for teaching and Award of the Croatian Welding Society		
competences?         PRIZES AND AWARDS, STUDENT EVALUATION         Prizes and awards for teaching and         Award of the Croatian Welding Society		
PRIZES AND AWARDS, STUDENT EVALUATION         Prizes and awards for teaching and       Award of the Croatian Welding Society		
Prizes and awards for teaching and Award of the Croatian Welding Society		
Specialisation on Technical University of Berlin and fellowship	-	
		Specialisation on Technical University of Berlin and fellowship

	of the German Academic Exchange Office (DAAD)
Results of student evaluation taken	
in the last five years for the course	
that is comparable to the course	
described in the form (evaluation	
organizer, average grade, note on	
grading scale and course	
evaluated)	

First and last name and title of	
teacher	Lovre Krstulović-Opara, Ph. D., Full Professor
The course he/she teaches in the	Design of industrial products, Explerimental methods in
proposed study programme	engineering
GENERAL INFORMATION ON COU	RSE TEACHER
Address	R. Boškovića 32
Telephone number	+385/21/305777
E-mail address	Lovre.Krstulovic-Opara@fesb.hr
Personal web page	http://marjan.fesb.hr/~opara/index.html
Year of birth	1967
Scientist ID	203806
Research or art rank, and date of	
last rank appointment	
Research-and-teaching, art-and-	Full professor – permanent position
teaching or teaching rank, and date	9.12.2015.
of last rank appointment Area and field of election into	Technical sciences, machanical angine aring, general
research or art rank	Technical sciences, mechanical engineering, general mechanical engineering (structures)
	· · · · · · · · · · · · · · · · · · ·
INFORMATION ON CURRENT EMP	
Institution where employed	University of Split Faculty of Electr. Eng., Mech. Eng. and Naval Arch.
Date of employment	IX.2001.
Name of position (professor,	Full professor - permanent position
researcher, associate teacher, etc.)	
Field of research	metal structures, non-destructive testing
Function	head of Chair for structural mechanics and design
INFORMATION ON EDUCATION - I	
Degree Institution	DrIng. Leibniz Universitaet Hannover
Place	Hannover
Date	13.12.2000.
INFORMATION ON ADDITIONAL T	
Year	
Place	2015 (MT), 2014 (VT), 2013 (PT), 2012 (UT) Zagreb
Institution	Croatian society of non-destructive testing
Field of training	NDT methods: UT2, MT2, VT2, PT1
MOTHER TONGUE AND FOREIGN	
Mother tongue	Croatian
Foreign language and command of foreign language on a scale from 2	English 5
(sufficient) to 5 (excellent)	
Foreign language and command of	German 3
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Foreign language and command of	Italian 4
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURS	E
Earlier experience as course	
teacher of similar courses (name	
title of course, study programme	
where it is/was offered, and level of	
study programme)	
	L. Krstulović-O., Ž. Domazet: Dizajn industrijskih proizvoda (skripta FESB)

	Ž. Domazet, L. Krstulović-O., Skripta iz osnova strojarstva
	(KTF)
Professional, scholarly and artistic articles published in the last five years in the field of the course (5 works at most) Professional and scholarly articles published in the last five years in	
subjects of teaching methodology and teaching quality (5 works at most)	
Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)	<ol> <li>Duarte, M. Vesenjak, L. Krstulovic-Opara:"Compressive behaviour of unconstrained and constrained integral-skin closed-cell aluminium foam", Composite structures, <b>154</b>, 231– 238, 2016.</li> <li>Krstulović-Opara, M. Vesenjak, I. Duarte, Z. Ren, Ž.</li> <li>Domazet: "Infrared thermography as a method for energy absorption evaluation of metal foams", Materials Today: Proceedings, 3, 1025-1030, 2016.</li> <li>Krstulovic-Opara, M. Surjak, M. Vesenjak, Z. Tonković, J. Kodvanj, Ž. Domazet: "Comparison of infrared and 3D digital image correlation techniques applied for mechanical testing of materials", Infrared Physics &amp; Technology, 73, 166-174, 2015.</li> <li>Krstulovic-Opara: "Application of thermography in analysis of fatigue strength of materials and structures", HDKBR info, 10, 3-11, 2013.</li> <li>Krstulovic-Opara, Ž. Domazet, E. Garafulic: "Detection of osmotic damages in GRP boat hulls", Infrared Physics &amp; Technology, 60, 359-364, 2013.</li> </ol>
The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences?-pedagoške kompetencije?	"Training for administrative and educational personnel" part of the EU project ME4CataLOgue (Mechanical Engineering for Catalogue)
PRIZES AND AWARDS, STUDENT	EVALUATION
Prizes and awards for teaching and scholarly/artistic work	
Results of student evaluation taken in the last five years for the course that is comparable to the course described in the form (evaluation organizer, average grade, note on grading scale and course evaluated)	Results are confidential matter and kept by employer (University of Split, FESB)

First and last name and title of teacher	Branimir Lela, PhD, Assistant Professor
The course he/she teaches in the	Technology 2
proposed study programme	
GENERAL INFORMATION ON COU	RSE TEACHER
Address	Ruđera Boškovića 32, Split
Telephone number	021/305909
E-mail address	<u>blela@fesb.hr</u>
Personal web page	
Year of birth	1976
Scientist ID	250123
Research or art rank, and date of last rank appointment	Scientific associate, 10/12/2010
Research-and-teaching, art-and- teaching or teaching rank, and date of last rank appointment	assistant professor, 18/04/2012
Area and field of election into research or art rank	Technical Sciences, Field Mechanical Engineering
INFORMATION ON CURRENT EMP	LOYMENT
Institution where employed	Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture
Date of employment	01/10/2001
Name of position (professor, researcher, associate teacher, etc.)	Assistant professor
Field of research	Engineering materials; Metal heat treatment; Forming by deformation; Numerical modelling of production processes; Tools and fixtures
Function	Vice Dean for Education
INFORMATION ON EDUCATION - H	Highest degree earned
Degree	PhD
Institution	Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture
Place	Split
Date	16/07/2010
INFORMATION ON ADDITIONAL TR	
Year	
Place	
Institution	
Field of training	
MOTHER TONGUE AND FOREIGN	
Mother tongue Foreign language and command of	Croatian English (5)
foreign language on a scale from 2 (sufficient) to 5 (excellent)	
Foreign language and command of	
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Foreign language and command of	
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURS	E
Earlier experience as course	Undergraduate study:
teacher of similar courses (name	1. Technology 2 (130)

	$0 = T_{12} + c_{12} + c_{12} + c_{13} + c_{13}$
title of course, study programme	<ol> <li>Technology 2 (150)</li> <li>Fundamentals of technologies (140)</li> </ol>
where it is/was offered, and level of study programme)	<ol> <li>Fundamentals of technologies (140)</li> <li>Professional study:</li> </ol>
	1. Metal forming by deformation (530)
	2. Technology of metal processing (540)
	Graduate study:
	1. Tools and fixtures (263,261,271,272)
	Postgraduate study:
	1. Processing by deformation (330)
Authorship of university/faculty	<ul> <li>Manual for laboratory exercise in processing by</li> </ul>
textbooks in the field of the course	deformation
Professional, scholarly and artistic	Manual for laboratory exercise in heat treatment     Jesié Caria: Lala Prezimin Pailé Prežez
articles published in the last five	1. Jozić, Sonja; Lela, Branimir; Bajić, Dražen.
years in the field of the course (5	A New Mathematical Model for Flank Wear Prediction
works at most)	Using Functional Data Analysis Methodology. Advances in
	Materials Science and Engineering. <b>2014</b> (2014) ; 1-8
	2. Lela, Branimir; Musa, Ante; Zovko, Oliver.
	Model-based controlling of extrusion process.
	International journal of advanced manufacturing
	<i>technology</i> . <b>74</b> (2014) , 9-12; 1267-1273
	3. Krstić Vukelja, Elizabeta; Duplančić, Igor; Lela, Branimir.
	Continuous roll casting of aluminium alloys– casting
	parameters analysis. <i>Metalurgija</i> . <b>49</b> (2010) , 2; 115-118
	4. Cvitanić, Vedrana; Ivandić, Daniel; Lela, Branimir.
	Comparison of orthotropic constitutive models in
	predicting square cup deep drawing process of AA2090-T3
	sheet . Proceedings of 4th International Conference
	Mechanical Technologies and Structural Materials 2014 /
	Živković, Dražen (ur.). Split : Croatian society for mechanical
	technologies, 2014. 61-70
	5. Duplancic, Igor; Lela, Branimir; Musa, Ante; Zovko, Oliver.
	Functional Data Analyses in Control of Extrusion Process.
	Proceedings of the Tenth International Aluminum Extrusion
	Technology Seminar. Wauconda, Illinois, USA : ET
Professional and scholarly articles	Foundation, 2012. 655-663
published in the last five years in	
subjects of teaching methodology	
and teaching quality (5 works at	
most)	
Professional, science and artistic	1. Improving the properties and methods of processing
projects in the field of the course carried out in the last five years (5	aluminium alloys
at most)	Project manager: prof. dr. sc. Igor Duplančić,
	Time period: 20072014.
	Financing: MZOŠ
	2. Parameters optimization and prediction of results of metal
	heat treatment
	Project manager: prof. dr. sc. Božo Smoljan,
	Time period: 2014
The name of the programme and	Financing: HRZZ Training for teachers and administrative staff within EU project
the volume in which the main	ME4CataLOgue
teacher passed exams in/acquired	
	•
the methodological-psychological- didactic-pedagogical group of competences?	
--	------------
PRIZES AND AWARDS, STUDENT	EVALUATION
Prizes and awards for teaching and scholarly/artistic work	
Results of student evaluation taken in the last five years for the course that is comparable to the course described in the form (evaluation organizer, average grade, note on grading scale and course evaluated)	4.7/5

First and last name and title of	
teacher	Damir Lelas, Ph. D, Assistant Professor
The course he/she teaches in the	Physics
proposed study programme	<b>,</b>
GENERAL INFORMATION ON COU	RSE TEACHER
Address	Cetvrt kralja Zvonimira 5, 21310 Omis, Croatia
Telephone number	+ 385 21 305881
E-mail address	dalelas@fesb.hr
Personal web page	https://nastava.fesb.hr/nastava/nastavnici/detalji/dalelas
Year of birth	1972
Scientist ID	309371
Research or art rank, and date of	Research Associate, February 2009
last rank appointment	
Research-and-teaching, art-and-	Assistant Professor - September 2014 (reappointment)
teaching or teaching rank, and date	
of last rank appointment	Natural Sciences, Dhusics
Area and field of election into research or art rank	Natural Sciences, Physics
INFORMATION ON CURRENT EMP	
Institution where employed	Faculty of Electrical Engineering, Mechanical Engineering and
	Naval Architecture
Date of employment	01/03/2009
Name of position (professor,	Professor
researcher, associate teacher, etc.)	
Field of research	Particle and Astroparticle Physics
Function	- 2011-2012 Member of the Scientific Council at the
	Faculty of Electrical Engineering, Mechanical
	Engineering and Naval Architecture, University of Split
	<ul> <li>2012-2015 Vice Dean for Education, Faculty of</li> </ul>
	Electrical Engineering, Mechanical Engineering and
	Naval Architecture, University of Split
INFORMATION ON EDUCATION - I	
Degree	PhD
Institution	University of Hamburg
Place	Hamburg, Germany
Date	11/06/2004
INFORMATION ON ADDITIONAL TR	
Year	2004-2006, Post Doctorate
Diasa	2006-2008, Post Doctorate
Place	Orsay Cedex, France
Institution	Victoria, Canada University of Paris XI
manuuum	University of Victoria
Field of training	Particle Physics
MOTHER TONGUE AND FOREIGN	
Mother tongue	Croatian
Foreign language and command of	
foreign language on a scale from 2	English (5)
(sufficient) to 5 (excellent)	
Foreign language and command of	
foreign language on a scale from 2	French (2)
(sufficient) to 5 (excellent)	
Foreign language and command of	

foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURS	
Earlier experience as course teacher of similar courses (name title of course, study programme where it is/was offered, and level of study programme) Authorship of university/faculty textbooks in the field of the course Professional, scholarly and artistic articles published in the last five years in the field of the course (5 works at most)	<ul> <li>Physice 1, Physics 2 - University Undergraduate Study of Computer Science and University Undergraduate Study of Electrical Engineering</li> <li>Physics, University Undergraduate Study of Mechanical Engineering and Industrial Engineering</li> <li>Web Material: https://fesb.hr/elearning/</li> <li>A New Boson with a Mass of 125 GeV Observed with the CMS Experiment at the Large Hadron Collider Group Author(s): CMS Collaboration Source: SCIENCE Volume: 338 Issue: 6114 Pages: 1569- 1575 DOI: 10.1126/science.1230816 Published: DEC 21 2012, (IF 31.027, Q1)</li> <li>Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC Group Author(s): CMS Collaboration Source: PHYSICS LETTERS B Volume: 716 Issue: 1 Pages: 30-61 DOI: 10.1016/j.physletb.2012.08.021 Published: SEP 17 2012, (IF 7.934, Q1)</li> <li>Combined results of searches for the standard model Higgs boson in pp collisions at root s=7 TeV Author(s): CMS Collaboration Source: PHYSICS LETTERS B Volume: 710 Issue: 1 Pages: 26-48 DOI: 10.1016/j.physletb.2012.02.064 Published: MAR 29 2012, (IF 7.934, Q1)</li> <li>Phase-resolved energy spectra of the Crab pulsar in the range of 50-400 GeV measured with the MAGIC telescopes Author(s): Alvarez, E. A.; Antonelli, L. A.; et al. Source: ASTRONOMY &amp; ASTROPHYSICS Volume: 540 Article Number: A69 DOI: 10.1016/j.out-6361/201118166 Published: APR 2012, (IF 5.084, Q1)</li> <li>Performance of the MAGIC stereo system obtained with Crab Nebula data Author(s): Aleksic, J.; Alvarez, E. A.; Antonelli, L. A.; et al. Source: ASTROPARTICLE PHYSICS Volume: 35 Issue: 7 Pages: 435-448 DOI: 10.1016/j.astropartphys.2011.11.007 Published: FEB 2012, (IF 4.777, Q2)</li> </ul>
Professional and scholarly articles published in the last five years in subjects of teaching methodology and teaching quality (5 works at most)	
Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)	<ul> <li>2014 - "The Higgs boson properties measurements and search for new physics with the CMS detestor", Project of Croatian Science Foundation (project member)</li> <li>2012 - "Very High Energy Gamma Ray Astronomy with the MAGIC telescopes", Project of Croatian National Science Foundation, grant 09/176. (project member)</li> </ul>
The name of the programme and the volume in which the main teacher passed exams in/acquired	

the methodological-psychological- didactic-pedagogical group of competences?-pedagoške kompetencije?	
PRIZES AND AWARDS, STUDENT I	EVALUATION
Prizes and awards for teaching and scholarly/artistic work	
Results of student evaluation taken in the last five years for the course	4,6/5
that is comparable to the course described in the form (evaluation	
organizer, average grade, note on grading scale and course	
evaluated)	

First and last name and title of	
teacher	Željan Lozina, Ph. D., Full Professor
The course he/she teaches in the	
proposed study programme	Mechanics 2, Mechanics3
GENERAL INFORMATION ON COU	RSE TEACHER
Address	Rendićeva 18
Telephone number	021-305-968
E-mail address	zeljan.lozina@fesb.hr
Personal web page	http://marjan.fesb.hr/~lozina/
Year of birth	1956.
Scientist ID	96925
Research or art rank, and date of	
last rank appointment	Scientific Adviser, 21.06.2000.
Research-and-teaching, art-and-	
teaching or teaching rank, and date	Senior Full Professor, 09.03.2005.
of last rank appointment	
Area and field of election into	Engineering Sciences, Field Engineering mechanics
research or art rank	
INFORMATION ON CURRENT EMP	
Institution where employed	Faculty of Electrical Engineering, Mechanical Engineering and
	Naval Architecture
Date of employment	22.10.1982
Name of position (professor,	Professor
researcher, associate teacher, etc.)	
Field of research	Dynamics/Vibration, Numerical methods, FEM
Function	Head of Chair of Dynamics and Vibration
INFORMATION ON EDUCATION - I	Highest degree earned
Degree	PhD
Institution	FSB – Univerity of Zagreb
Place	Zagreb
Date	05.04.1989.
INFORMATION ON ADDITIONAL TR	RAINING
Year	
Place	Udine, Italy
Institution	CISM
Field of training	Engineering Mechanics
MOTHER TONGUE AND FOREIGN	LANGUAGES
Mother tongue	Croatian
Foreign language and command of	English (4)
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Foreign language and command of	Italian (3)
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Foreign language and command of foreign language on a scale from 2	French (2)
LIOTAID ISDOUSDE OD S SCALE TROM 2	
(sufficient) to 5 (excellent)	
(sufficient) to 5 (excellent) COMPETENCES FOR THE COURS	
(sufficient) to 5 (excellent) COMPETENCES FOR THE COURS Earlier experience as course	Mechanics of materials, Programming, Mechanisms, Vehicle
(sufficient) to 5 (excellent) COMPETENCES FOR THE COURS Earlier experience as course teacher of similar courses (name	
(sufficient) to 5 (excellent) COMPETENCES FOR THE COURS Earlier experience as course	Mechanics of materials, Programming, Mechanisms, Vehicle

study programme)	
Authorship of university/faculty	Finte element method, Univerity of Split
textbooks in the field of the course	Kinematics, Univerity of Split
	Dynamics, Univerity of Split
	Programming, Univerity of Split
Professional, scholarly and artistic articles published in the last five years in the field of the course (5 works at most)	<ol> <li>Sedlar, Damir; Lozina, Željan; Vučina, Damir: An implementation of structural change detection procedure based on experimental and numerical model correlation. // Journal of sound and vibration. 331 (2012), 13; 3068-3082</li> <li>Vučina, Damir; Lozina, Željan; Pehnec, Igor.: Ad-Hoc Cluster and Workflow for Parallel Implementation of Initial- Stage Evolutionary Optimum Design. // Structural and multidisciplinary optimization. 45 (2012), 2; 197-222</li> <li>Vučina, Damir; Lozina, Željan; Pehnec, Igor.: Computational procedure for optimum shape design based on chained Bezier surfaces parameterization. // Engineering applications of artificial intelligence. 25 (2012), 3; 648-667</li> <li>Vučina, Damir; Lozina, Željan; Vlak, Frane.: NPV-based decision support in multi-objective design using evolutionary algorithms. // Engineering applications of artificial intelligence. 23 (2010), 1; 48-60</li> <li>Lozina, Željan; Sedlar, Damir; Vučina, Damir.: Model Update with Observer/Kalman Filter and Genetic Algorithm Approach. // Transactions of FAMENA. 36 (2012)</li> </ol>
Professional and scholarly articles published in the last five years in subjects of teaching methodology and teaching quality (5 works at most)	<ol> <li>Cvitanić, Vedrana; Duplančić, Igor; Lozina, Željan; Ivandić, Daniel.:Earing predictions for Al2008-T4 sheet. // Aluminium and its alloys. 3 (2011) ; 73-77</li> <li>Sedlar, Damir; Lozina, Željan; Vučina, Damir.</li> <li>Comparison of Genetic and Bees Algorithm in the Finite Element Model Update. // Transactions of FAMENA. 35 (2011), 1; 1-12</li> </ol>
Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)	<ol> <li>HRZZ Istraživački projekt: Mjeriteljska infrastruktura za pametne mreže, 2015 2018.</li> <li>LLP - ERASMUS: Strategic Alignment of Electrical and Information Engineering in European Higher Education Institutions, 20122014.</li> <li>TEMPUS: Creation of the third cycle studies-doctoral studies in metrology Trajanje projekta: 2010. – 2013.</li> </ol>
The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences?-pedagoške kompetencije? PRIZES AND AWARDS, STUDENT E	Me4
Prizes and awards for teaching and	
Results of student evaluation taken in the last five years for the course that is comparable to the course described in the form (evaluation organizer, average grade, note on grading scale and course evaluated)	4,8/5

First and last name and title of	Gojko Magazinović, Ph. D., Full Professor
teacher	
The course he/she teaches in the proposed study programme	Computer Aided Design 1
GENERAL INFORMATION ON COU	RSE TEACHER
Address	Trg Mihovila Pavlinovića 6, 21000 Split, HR
Telephone number	+385 21 305 966
E-mail address	gmag@fesb.hr
Personal web page	www.fesb.hr/~gmag
Year of birth	1956
Scientist ID	139574
Research or art rank, and date of	Scientific Adviser, 1/12/2010
last rank appointment	
Research-and-teaching, art-and-	Full Professor, 27/9/2012
teaching or teaching rank, and date	
of last rank appointment Area and field of election into	Technical Sciences, Field Mechanical Engineering
research or art rank	rechnical Sciences, Field Mechanical Engineening
INFORMATION ON CURRENT EMP	
Institution where employed	Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture
Date of employment	1/9/1994
Name of position (professor,	Professor
researcher, associate teacher, etc.)	
Field of research	Engineering applications of computer
Function	Teacher
INFORMATION ON EDUCATION - I	Highest degree earned
Degree	PhD
Institution	Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture
Place	Split
Date	14/3/2002
INFORMATION ON ADDITIONAL TR	RAINING
Year	2004, 2005
Place	Split
Institution	Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture
Field of training	Computer aided design (Pro/Engineer, Catia, Unigraphics;
	three separate courses)
MOTHER TONGUE AND FOREIGN	
MOTHER TONGUE AND FOREIGN Mother tongue Foreign language and command of	LANGUAGES
Mother tongue Foreign language and command of foreign language on a scale from 2	LANGUAGES Croatian
Mother tongue Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)	LANGUAGES Croatian
Mother tongue Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of	LANGUAGES Croatian
Mother tongue Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2	LANGUAGES Croatian
Mother tongue Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)	LANGUAGES Croatian
Mother tongueForeign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)Foreign language and command of of foreign language and command of	LANGUAGES Croatian
Mother tongueForeign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)Foreign language and command of foreign language and command of foreign language and command of foreign language on a scale from 2	LANGUAGES Croatian
Mother tongueForeign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)Foreign language and command of foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)	LANGUAGES Croatian English (3)
Mother tongueForeign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)Foreign language and command of foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)FORE FORE foreign language on a scale from 2 (sufficient) to 5 (excellent)COMPETENCES FOR THE COURS	LANGUAGES Croatian English (3) E
Mother tongueForeign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)Foreign language and command of foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)FOREIGN LANGUAGE FOREIGN LANGUAGE COMPETENCES FOR THE COURS Earlier experience as course	LANGUAGES Croatian English (3) E E Computer Aided Design, Undergraduate study programme,
Mother tongueForeign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)Foreign language and command of foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)COMPETENCES FOR THE COURS Earlier experience as course teacher of similar courses (name	LANGUAGES Croatian English (3) E
Mother tongueForeign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)Foreign language and command of foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)FOREIGN LANGUAGE FOREIGN LANGUAGE COMPETENCES FOR THE COURS 	LANGUAGES Croatian English (3) E E Computer Aided Design, Undergraduate study programme,

study programme)		
Authorship of university/faculty	1. Magazinović, Gojko: Primjena elektroničkih računala –	
textbooks in the field of the course	<ul> <li>Podloge za laboratorijske vježbe - Programski jezik Fortran 90, Skripta, FESB Split, ISBN 953-6114-60-7, Split, 2003.</li> <li>Magazinović, Gojko: Primjena elektroničkih računala – Podloge za laboratorijske vježbe - Programski jezik C, Skripta, FESB Split, ISBN 953-6114-59-3, Split, 2003.</li> </ul>	
Professional, scholarly and artistic articles published in the last five years in the field of the course (5 works at most)	<ol> <li>Pivac, Ivan; Magazinović, Gojko. Numerical analysis of tank heating coil heat transfer process, in: Towards Green Marine Technology and Transport // Guedes Soares, Carlos; Dejhalla, Roko; Pavletić, Duško (Eds). London: Taylor &amp; Francis Group, 2015. 603-608.</li> <li>Bezmalinović, Dario; Magazinović, Gojko; Barbir, Frano. Analysis of Fuel Cell Stacks Degradation by Polarization Change Curves // Proceedings, 2014 IEEE Vehicle Power and Propulsion Conference VPPC2014 / Paulo J. G. Pereirinha (Ed.). IEEE, 2014. 139-141.</li> <li>Magazinović, Gojko. Least Inertia Approach to Low-speed Marine Diesel Propulsion Shafting Optimum Design, Brodogradnja 65(2014)3, 75-87.</li> <li>Magazinović, Gojko. Transient Torsional Vibration Analysis of Marine Propulsion Plants, // Proceedings, Sorta 2014 / Dejhalla, Roko (Ed.). Rijeka: Tehnički fakultet, Sveučilište u Rijeci, 2014. 505-512</li> <li>Magazinović, Gojko. Castor - A Propulsion Shaftline Torsional Vibration Assessment Tool, Paper No. 76, // Proceedings Sorta 2012 / Žiha, Kalman, et al. (Eds.). Zagreb: Faculty of Mechanical Engineering and Naval Architecture, Zagreb, and Brodarski Institute, Zagreb, 2012.</li> </ol>	
Professional and scholarly articles published in the last five years in subjects of teaching methodology and teaching quality (5 works at most)	-	
Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)	<ol> <li>HRZZ Istraživački projekt: Upravljanje vodom i toplinom i trajnost membranskih gorivnih članaka, 2015-2018.</li> <li>FP7 Istraživački projekt: SAPPHIRE, 2013-2016.</li> </ol>	
The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences?-pedagoške kompetencije?	IPA IV projekt "ME4CataLOgue - Hrvatski katalog znanja, vještina i kompetencija za studije strojarstva temeljen na ishodima učenja (za preddiplomski, diplomski i doktorski studij)", Trening implementacije ishoda učenja u razvoj studijskih programa i kurikuluma, Split, 2014.	
PRIZES AND AWARDS, STUDENT EVALUATION		
Prizes and awards for teaching and scholarly/artistic work	Award for the significant results achieved in scientific research, FESB Split, 1982.	
Results of student evaluation taken in the last five years for the course that is comparable to the course described in the form (evaluation organizer, average grade, note on grading scale and course evaluated)	3,7/5 (five year average)	

First and last name and title of	Ivan Matić, PhD, Assistant professor
teacher	
The course he/she teaches in the	Business Systems Organisation
proposed study programme	
GENERAL INFORMATION ON COU	RSE TEACHER
Address	Kamensko 38, 21246 Aržano
Telephone number	0911300500
E-mail address	imatic@efst.hr
Personal web page	http://www.efst.hr/content.php?k=fakultet&p=69&osoba=imatic
Year of birth	1980.
Scientist ID	274414
Research or art rank, and date of	Research associate, 13.11.2012.
last rank appointment	Senior research associate, 10.10.2014.
Research-and-teaching, art-and-	Research-and-teaching rank of assistant professor, 26.03.2013.
teaching or teaching rank, and date	
of last rank appointment	Area of Casial Caianaga, Field of Feanamica
Area and field of election into research or art rank	Area of Social Sciences, Field of Economics
INFORMATION ON CURRENT EMP	
Institution where employed	University of Split, Faculty of Economics
Date of employment	01.04.2015.
Name of position (professor,	Assistant professor
researcher, associate teacher, etc.) Field of research	Organisation and Management
Function	
INFORMATION ON EDUCATION – I	
Degree	Doctor of Philosophy
Institution	University of Split, Faculty of Economics
Place	Split 01.12.2011.
Date	
INFORMATION ON ADDITIONAL TR	
Year	2006, 2008, 2009, 2009
Place	Split, Opatija, Zagreb, Zagreb Ministry of Foreign Affairs and European Integrations,
Institution	International Project Management Association and Croatian
	Association for Project Management, Project Management
	Institute, Society for Organizational Learning (SoL)
Field of training	Project Cycle Management, Effective Preparation and Start-up
3	of projects, Leading project in Crisis, Crisis – Threat or
	Opportunity
MOTHER TONGUE AND FOREIGN	LANGUAGES
Mother tongue	Croatian
Foreign language and command of	English (5)
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Foreign language and command of	
foreign language on a scale from 2	
foreign language on a scale from 2 (sufficient) to 5 (excellent)	
foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of	
foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2	
foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)	
foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) COMPETENCES FOR THE COURS	
foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) COMPETENCES FOR THE COURS Earlier experience as course	Contemporary management (graduate, 1st year)
foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) COMPETENCES FOR THE COURS	

where it is/was offered, and level of	Management (undergraduate, 2 <sup>nd</sup> year)
study programme) Authorship of university/faculty textbooks in the field of the course Professional, scholarly and artistic articles published in the last five years in the field of the course (5 works at most)	<ul> <li>Managerial Decision Making (undergraduate, 2<sup>nd</sup> year) Business Organisation (undergraduate, <sup>2rd</sup> year)</li> <li>1. Buble, Marin; Matić, Ivan (2011): Ostvarivanje funkcija menadžmenta u malim hrvatskim poduzećima, Faculty of Economics Split, Split, scientific monography.</li> <li>2. Matić, Ivan; Pavić, Ivana; Mateljak, Željko (2009): Menadžment - Priručnik za nastavu, 2<sup>nd</sup> revised and expanded edition, Faculty of Economics Split, Split, university textbook.</li> <li>3. Alfirević, Nikša; Pavić, Ivana; Matić, Ivan (2008): Menadžment - Priručnik za nastavu, Faculty of Economics Split, Split, university textbook.</li> <li>1. Buble, Mario; Juras, Ana; Matić, Ivan (2014): The relationship between managers leadership styles and motivation, Management – Journal of Contemporary Management Issues, Vol. 19, pp. 161-193., scientific paper, indexed in: Scopus, Abi/Inform, EBSCO, Econlit, C.E.E.O.L., Gale/CENGAGE, Indeks Copernicus.</li> <li>2. Buble, Marin; Matić Ivan (2012): Business Processes Improvement: The Case of large Croatian Companies, Journal of International Management Studies, Vol. 7, pp. 138-150., scientific paper, indexed in: ABI/Inform.</li> <li>3. Matić, Ivan (2012): Oblik organizacijske strukture i programi unapređenja poslovnih procesa, Utjecaj organizacijskih varijabli na uspjeh programa unapređenja poslovnih procesa – Empirijsko istraživanje (editor: prof. emeritus M. Buble), pp. 33-47., book chapter.</li> <li>4. Buble, Marin; Matić, Ivan (2012): Utjecaj ostvarivanja funkcija menadžmenta na poslovne performanse malih hrvatskih poduzeća, Financije i menadžment u globalnoj ekonomiji (editors: L. Božina, M. Gonan Božac, D. Učkar),</li> </ul>
	<ul> <li>pp. 147-183, scientific paper.</li> <li>5. Matić, Ivan (2010): <i>Strukturalna paradigma</i>, Utjecaj organizacijskih varijabli na uspjeh programa unapređenja poslovnih procesa (editor: prof. emeritus M. Buble), pp.</li> </ul>
	123-140., book chapter.
Professional and scholarly articles published in the last five years in subjects of teaching methodology and teaching quality (5 works at most)	
Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)	20072014. – Scientific project funded by Ministry of Science and Education: 'Implications of the structural into process paradigm conversion'
The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences?-pedagoške kompetencije?	<ul> <li>2014. – Successfully attended seminar: 'Development and improvement of university teachers' pedagogic competences', Centre for Research and Development of Lifelong Leaning/University of Split - Faculty of Humanities and Social Sciences,</li> <li>2016. – Successfully completed course 'Academic Teaching Excellence – English as the Medium of Instruction', British Council Croatia.</li> </ul>
PRIZES AND AWARDS, STUDENT	EVALUATION
Prizes and awards for teaching and scholarly/artistic work	2010. – Awarded by University of Split – Faculty of Economics, as a member of author's team of scientific monography entitled " <i>Utjecaj organizacijskih varijabli na uspjeh programa</i>

	<i>unapređenja poslovnih procesa"</i> , editor: prof. emer. Marin Buble.
Results of student evaluation taken	
in the last five years for the course	
that is comparable to the course	
described in the form (evaluation	
organizer, average grade, note on	
grading scale and course	
evaluated)	

First and last name and title of teacher	Anita Matković, Ph.D., Associate Professor
The course he/she teaches in the	Mathematics 1, Mathematics 2
proposed study programme	
GENERAL INFORMATION ON COU	
Address	FESB, R. Boškovića 32, B804
Telephone number E-mail address	021 305894 anita.matkovic@fesb.hr
Personal web page	https://nastava.fesb.hr/nastava/nastavnici/detalji/amatkovi
Year of birth	1966
Scientist ID	180406
Research or art rank, and date of	higher scientific collaborator
last rank appointment	
Research-and-teaching, art-and-	Associate Professor, 2011
teaching or teaching rank, and date	
of last rank appointment	
Area and field of election into	Area od Natural Sciences, Field of Mathematics
research or art rank	
INFORMATION ON CURRENT EMP	LOYMENT
Institution where employed	FESB, Split
Date of employment	2006
Name of position (professor,	Associate Professor
researcher, associate teacher, etc.)	
Field of research	Mathematics
Function	
INFORMATION ON EDUCATION - H	Highest degree earned
Degree	Ph.D.
Institution	University of Zagreb, Faculty of Science
Place	Zagreb, Croatia
Date	October 2006
INFORMATION ON ADDITIONAL TR	AINING
Year	
Place	
Institution	
Field of training	
MOTHER TONGUE AND FOREIGN	LANGUAGES
Mother tongue	Croatian
Foreign language and command of	English (4)
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Foreign language and command of	
foreign language on a scale from 2 (sufficient) to 5 (excellent)	
Foreign language and command of	
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURS	E
Earlier experience as course	Mathematics 1, Mathematics 2, Mathematics 3, Mathematics –
teacher of similar courses (name	selected topics, undergraduate studies of electrical engineering,
title of course, study programme	mechanical engineering and naval archicecture.
where it is/was offered, and level of	
study programme)	
Authorship of university/faculty	

textbooks in the field of the course	
Professional, scholarly and artistic articles published in the last five years in the field of the course (5 works at most)	<ol> <li>Matković, A., Generalization of the Jensen-Mercer inequality by Taylor's polynomial, Mathematical Inequalities and Applications, 19 (2016), 4; 1387-1398.</li> <li>Matković, A.; Pečarić, Josip.; Perić, J., A refinement of the Jessen-Mercer inequality and a generalization on convex hulls in R^k, Journal of Mathematical Inequalities 9 (2015), 4; 1093-1114.</li> </ol>
Professional and scholarly articles published in the last five years in subjects of teaching methodology and teaching quality (5 works at most)	
Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)	<ol> <li>Convex functions and applications, project MZOS No. 177-1170889-1207, 2007- 2015, collaborator.</li> <li>Inequalities and Applications , HRZZ research project No. 5435, 2014-, collaborator.</li> </ol>
The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences?-pedagoške kompetencije?	Graduate teachers study of mathematics and informatics, University of Split, Faculty of Science.
PRIZES AND AWARDS, STUDENT I	EVALUATION
Prizes and awards for teaching and scholarly/artistic work	
Results of student evaluation taken in the last five years for the course that is comparable to the course described in the form (evaluation organizer, average grade, note on grading scale and course evaluated)	Evaluations organized by the Quality Enhancement Centre of the University of Split each semester. Average grade is 4.4 on the 1-5 scale.

First and last name and title of teacher	Maja Mihaljević Kosor, Ph. D., Assistant Professor
The course he/she teaches in	
the proposed study programme	Principles of Economics
GENERAL INFORMATION ON C	OURSE TEACHER
Address	Ulica slobode 36
Telephone number	091 4430722
E-mail address	majam@efst.hr
Personal web page	
Year of birth	1977
Scientist ID	274293
Research or art rank, and date	
of last rank appointment	
Research-and-teaching, art-and-	
teaching or teaching rank, and	Assistant professor Dec, 11th, 2012
date of last rank appointment	
Area and field of election into	Social Sciences, Economics
research or art rank	Social Sciences, Economics
INFORMATION ON CURRENT E	MPLOYMENT
Institution where employed	Faculty of Economics, University of Split
Date of employment	June, 1st, 2000
Name of position (professor,	
researcher, associate teacher,	Assistant professor
etc.)	
Field of research	Public sector economics, Economics of education
Function	
INFORMATION ON EDUCATION	<ul> <li>Highest degree earned</li> </ul>
Degree	PhD
Institution	Staffordshire University
Place	Stoke-on-Trent, United Kingdom
Date	Aug 11th, 2009
INFORMATION ON ADDITIONAL	TRAINING
Year	2008
Place	Stoke-on-Trent
Institution	Staffordshire University
Field of training	Public sector, Economics of education
MOTHER TONGUE AND FOREIGN LAI	NGUAGES
Mother tongue	Croatian
Foreign language and command	
of foreign language on a scale	English 5
from 2 (sufficient) to 5	English 5
(excellent)	
Foreign language and command	
of foreign language on a scale	French 3
from 2 (sufficient) to 5	

(excellent)	
Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)	German 2
COMPETENCES FOR THE COURSE	
Earlier experience as course teacher of similar courses (name title of course, study programme where it is/was offered, and level of study programme)	Principles of economics, 1st year, undergraduate, university level, Faculty of Economics, University of Split History of economic thought, 1st year, undergraduate, university level, Faculty of Economics, University of Split Ekonomika javnog sektora, 1st year, graduate, university level, Faculty of Economics, University of Split
Authorship of university/faculty textbooks in the field of the course	Z. Reić, M. Mihaljević Kosor (2011): <i>Ekonomija</i> , 3rd edition, University of Split, Faculty of Economics.
Professional, scholarly and artistic articles published in the last five years in the field of the course (5 works at most)	<ul> <li>Mihaljević Kosor, M. (2013): Efficiency Measurement in Higher Education: Concepts, Methods and Perspective, <i>Procedia-Social and Behavioral Sciences Journal</i>, pp.1031-1038.</li> <li>Mihaljević Kosor, M. (2013): From Enrolment to Gradiation: Examining the Time to Complete Undergraduate Studies, <i>International Journal of Business and Management Studies</i>, Vol. 5(2), pp. 126- 134.</li> <li>Malešević Perović, L.; Mihaljević Kosor, M.; Filipić, P. (2011): The relative importance of religious denominations for life satisfaction, <i>Journal of Applied Economics and Business Research</i>, Vol. 1, Issue 3, str. 162176. ISSN 1927-033X.</li> <li>Mihaljević Kosor, M. (2011): Missing Data Problems: An Application of Imputation in Educational Research, <i>Ninth International Conference Challenges of Europe: Growth and Competitiveness - Reversing the Trends</i>, proceedings, Zlatan, R.; Šimić, V. (urednici), University of Split, Faculty of Economics, Bol 2628.5.2011., str. 533545. CD ROM: ISSN 1847-4497, UDC 338.24(4)(063).</li> <li>Mihaljević Kosor, M. (2010): Leaving Early: The Determinants of Student Non-completion in Croatian Higher Education, <i>Revija za socijalnu politiku</i>, Vol. 2, str. 197215. UDK: 37.011.3-052(497.5), DOI 10.3935/rsp.v17i2.913.</li> </ul>
Professional and scholarly articles published in the last five years in subjects of teaching methodology and teaching quality (5 works at most)	
Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)	Member of a project awarded by the Croatian Science Foundation: <b>"Investigating government expenditures on</b> education: growth effects, convergence and efficiency", HRZZ 9558.

The name of the programme	
and the volume in which the	
main teacher passed exams	
in/acquired the methodological-	
psychological-didactic-	
pedagogical group of	
competences?-pedagoške	
kompetencije?	
PRIZES AND AWARDS, STUDENT EVALUATION	
Prizes and awards for teaching and scholarly/artistic work	<ul> <li>CERGE-EI Career Integration Fellowship in 2016 and 2017</li> <li>Award by the Faculty of Economics in 2003 for success in research and teaching</li> </ul>

First and last name and title of	Nedjeljko Mišina, Ph. D., Full Professor
teacher	
The course he/she teaches in the	Materials 1, Materials 2, Tehnology 1
proposed study programme	
GENERAL INFORMATION ON COU	RSE TEACHER
Address	Ruđera Boškovića 32, SPLIT
Telephone number	021/305911
E-mail address	nmisina@fesb.hr
Personal web page	
Year of birth	1950.
Scientist ID	71172
Research or art rank, and date of	Scientific Adviser, 31/05/2006.
last rank appointment	
Research-and-teaching, art-and-	Senior Full Professor, 25/1/2013.
teaching or teaching rank, and date	
of last rank appointment	Technical Opioneen, Field Machemical Factors for
Area and field of election into research or art rank	Technical Sciences, Field Mechanical Engineering
INFORMATION ON CURRENT EMP	
Institution where employed	Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture
Data of omployment	1/10/1977
Date of employment Name of position (professor,	Professor
researcher, associate teacher, etc.)	FIDIESSO
Field of research	Mechanical Engineering
Function	Head of Chair of Materials and Tribology
INFORMATION ON EDUCATION – H	· · · · · · · · · · · · · · · · · · ·
Degree	PhD
Institution	Faculty of Mechanical Engineering and Naval Architecture
Place	Zagreb
Date	24/6/1992.
INFORMATION ON ADDITIONAL TR	
Year	-
Place	
Institution	-
Field of training	-
MOTHER TONGUE AND FOREIGN	
Mother tongue	Croatian
Foreign language and command of	English (4)
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Foreign language and command of	Germany (2)
foreign language on a scale from 2	- ` ` ,
(sufficient) to 5 (excellent)	
Foreign language and command of	
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURS	
Earlier experience as course	Materials (530, 540), Materials 1 (150), Materials 2 (150, 130),
teacher of similar courses (name	Technology 1 (150), Welding and similar treatments (530, 540)
title of course, study programme	
where it is/was offered, and level of	
study programme)	

Authorship of university/faculty	
textbooks in the field of the course Professional, scholarly and artistic articles published in the last five years in the field of the course (5 works at most)	<ol> <li>Ž. Bilić, N. Mišina, L. Kuščer, J. Diaci, I. Polajnar: "Influence of welding conditions on resistance flash welds", International Journal of Microstructure and Materials Properties, Vol. 8, No. 6, 2013., 425-435.</li> <li>N. Mišina, I. Polajnar, Ž. Bilić: "Production and weldability of microalloyed steels", 6. International scientific-professional conference, Slavonski Brod, 2011., 15-26.</li> </ol>
Professional and scholarly articles published in the last five years in subjects of teaching methodology and teaching quality (5 works at most)	<ol> <li>I. Polajnar, N. Mišina: "Automation and/or robotization of welding processes", CIM 2011., Biograd, 195-202.</li> <li>I. Polajnar, N. Mišina: "The latest achievement of personal protection for welders", 3. International Professional and Safety and Health, Zadar, 2010., 53-61</li> </ol>
Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)	<ol> <li>Ž. Bilić, I. Samardžić, N. Mišina: "Opasnosti i mjere zaštite kod postupaka zavarivanja", Dan varilne tehnike, Novo Mesto, 2014., 185-189     </li> </ol>
The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences?-pedagoške kompetencije?	
PRIZES AND AWARDS, STUDENT	EVALUATION
Prizes and awards for teaching and scholarly/artistic work	
Results of student evaluation taken in the last five years for the course that is comparable to the course described in the form (evaluation organizer, average grade, note on grading scale and course evaluated)	4,3/6

First and last name and title of teacher	Ivan Pavić, Full Professor Tenure
The course he/she teaches in the proposed study programme	Fundamentals of microeconomics
GENERAL INFORMATION ON COU	
Address	Split, R. Boškovića 28
Telephone number	091 4430 600
E-mail address	pavic@efst.hr
Personal web page	https://www.efst.hr/content.php?k=fakultet&p=69&osoba=pavic
Year of birth	1951.
Scientist ID	077961
Research or art rank, and date of last rank appointment	
Research-and-teaching, art-and-	Full Professor Tenure
teaching or teaching rank, and date	06 April 2006
of last rank appointment	
Area and field of election into	Social Sciences
research or art rank	Economics
INFORMATION ON CURRENT EMP	LOYMENT
Institution where employed	Faculty of economics
Date of employment	20 March 1976
Name of position (professor,	Professor
researcher, associate teacher, etc.)	
Field of research	Economics (Protection of Competition, Microeconomics,
	Industrial Organization)
Function	Head of doctoral studies
INFORMATION ON EDUCATION - H	Highest degree earned
Degree	PhD
Institution	Faculty of economics Zagreb
Place	Zagreb
Date	Zagleb
INFORMATION ON ADDITIONAL TR	
Year	1991 and 2013
Place	Stoke on Trent
Institution	
	Staffordshire University, England
Field of training	Social Sciences
MOTHER TONGUE AND FOREIGN	
Mother tongue	Croatian
Foreign language and command of	French, 3
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Foreign language and command of	English, 3
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Foreign language and command of	
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURS	
Earlier experience as course	Competition policy, Microeconomics, Corporate Restructuring,
teacher of similar courses (name	Production Management, Compensation Management
title of course, study programme	
where it is/was offered, and level of	
study programme)	
	Luovia L. Doniá I.). Hoghi L. (2000). Mikroakonomila 2 ad
Authorship of university/faculty textbooks in the field of the course	Pavić, I., Benić, Đ., Hashi, I., (2009). <i>Mikroekonomija</i> , 3. ed., Ekonomski fakultet Split. ISBN 978-953-281-020-2

Professional, scholarly and artistic	Pavić, I., Galetić, L., (1996). <i>Upravljanje plaćama</i> , RRiFplus, Zagreb. ISBN 953-6121-12-3 Pavić, I., i dr., (x). <i>Proizvodni management</i> , Pervan M., Višić J., Pavić I., <i>Inconsistency in consumer</i> preference: some interesting insights. 3rd World Conference
articles published in the last five years in the field of the course (5 works at most)	<ul> <li>preference: some interesting insights, 3rd World Conference on Business, Economics and Management (BEM-2014).</li> <li>Pavić I., Pervan M., Višić J., Personal characteristics as Determinants of Risk Propensity of Business Economics Students - An Empirical Study, The 8th International days of statistics and economics, pp.1115-1125. September 11-13, 2014, Prague. ISBN: 978-80-87990-02-5.</li> <li>Pavić, I., Vojinić, P. The Influence of Demographical and Professional Characteristics on Managers' Risk Taking Propensity, Advances in Management and Applied Economics, 2 (2012).</li> </ul>
Professional and scholarly articles published in the last five years in subjects of teaching methodology and teaching quality (5 works at most)	-
Professional, science and artistic	Development of Economics and Business Education in Split,
projects in the field of the course carried out in the last five years (5	(2000-2003), Tempus project, coordinator.
at most)	<i>Masters Degree in European Integration in Croatia</i> , 2003-2006, Tempus project, coordinator.
	<i>Utjecaj pridruživanja RH Europskoj uniji na profitabilnost hrvatskih poduzeća</i> , 2007. – 2014. scientific project (project code: 055-0551147-1105), leader.
The name of the programme and	
the volume in which the main teacher passed exams in/acquired	
the methodological-psychological-	
didactic-pedagogical group of competences?-pedagoške	
kompetencije?	
PRIZES AND AWARDS, STUDENT	
Prizes and awards for teaching and scholarly/artistic work	For the contribution to science in 2007 awarded with the Order of Croatian Danica with figure of Ruder Boskovic
Results of student evaluation taken	
in the last five years for the course that is comparable to the course	
described in the form (evaluation	
organizer, average grade, note on	
grading scale and course evaluated)	

First and last name and title of	
teacher	Maja Pervan, Ph. D. Associate Professor
The course he/she teaches in the	Mierocomomico
proposed study programme	Microeconomics
GENERAL INFORMATION ON CO	URSE TEACHER
Address	Makarska ulica 24, 21 000 Split
Telephone number	021 464 524
E-mail address	mpervan@efst.hr
Personal web page	http://www.efst.hr/content.php?k=fakultet&p=69&osoba=mpervan
Year of birth	1975
Scientist ID	257610
Research or art rank, and date of	Scientific adviser, 09/01/2017
last rank appointment	
Research-and-teaching, art-and-	Full Professor, 26/01/2017
teaching or teaching rank, and	
date of last rank appointment	Casial Orignada Francoica
Area and field of election into	Social Sciences, Economics
research or art rank	
INFORMATION ON CURRENT EM	
Institution where employed	Faculty of Economics, University of Split
Date of employment	01/05/1998.
Name of position (professor,	Full Professor
researcher, associate teacher,	
etc.) Field of research	Misus assumption industrial expension tion
Function	Microeconomics, Industrial organisation
FUNCTION	
INFORMATION ON EDUCATION -	
Degree	PhD
Degree Institution	PhD Faculty of Economics, University of Split
Degree Institution Place	PhD Faculty of Economics, University of Split Split
Degree Institution Place Date	PhD Faculty of Economics, University of Split Split 23/02/2007
Degree Institution Place Date INFORMATION ON ADDITIONAL T	PhD Faculty of Economics, University of Split Split 23/02/2007 RAINING
Degree Institution Place Date INFORMATION ON ADDITIONAL T Year	PhD Faculty of Economics, University of Split Split 23/02/2007 RAINING 2001;2004; 2005;
Degree Institution Place Date INFORMATION ON ADDITIONAL T Year Place	PhD Faculty of Economics, University of Split Split 23/02/2007 RAINING 2001;2004; 2005; Stoke-on-Trent, UK
Degree Institution Place Date INFORMATION ON ADDITIONAL T Year Place Institution	PhD Faculty of Economics, University of Split Split 23/02/2007 RAINING 2001;2004; 2005; Stoke-on-Trent, UK Staffordshire University
Degree Institution Place Date INFORMATION ON ADDITIONAL T Year Place Institution Field of training	PhD Faculty of Economics, University of Split Split 23/02/2007 RAINING 2001;2004; 2005; Stoke-on-Trent, UK Staffordshire University Microeconomics
Degree Institution Place Date INFORMATION ON ADDITIONAL T Year Place Institution Field of training Year	PhD Faculty of Economics, University of Split Split 23/02/2007 RAINING 2001;2004; 2005; Stoke-on-Trent, UK Staffordshire University Microeconomics 2012; 2016; 2016; 2017
Degree Institution Place Date INFORMATION ON ADDITIONAL T Year Place Institution Field of training	PhD Faculty of Economics, University of Split Split 23/02/2007 RAINING 2001;2004; 2005; Stoke-on-Trent, UK Staffordshire University Microeconomics
Degree Institution Place Date INFORMATION ON ADDITIONAL T Year Place Institution Field of training Year	PhD         Faculty of Economics, University of Split         Split         23/02/2007         RAINING         2001;2004; 2005;         Stoke-on-Trent, UK         Staffordshire University         Microeconomics         2012; 2016; 2016; 2017         Paris, Francuska; Barcelona, Spain; London,UK; Birmingham,
Degree Institution Place Date INFORMATION ON ADDITIONAL T Year Place Institution Field of training Year Place Institution	PhD         Faculty of Economics, University of Split         Split         23/02/2007         RAINING         2001;2004; 2005;         Stoke-on-Trent, UK         Staffordshire University         Microeconomics         2012; 2016; 2016; 2017         Paris, Francuska; Barcelona, Spain; London,UK; Birmingham, UK
Degree Institution Place Date INFORMATION ON ADDITIONAL T Year Place Institution Field of training Year Place	PhD Faculty of Economics, University of Split Split 23/02/2007 RAINING 2001;2004; 2005; Stoke-on-Trent, UK Staffordshire University Microeconomics 2012; 2016; 2016; 2017 Paris, Francuska; Barcelona, Spain; London,UK; Birmingham, UK HEC; Barcelona Graduate School of Economics (GSE); Imperial
Degree Institution Place Date INFORMATION ON ADDITIONAL T Year Place Institution Field of training Year Place Institution	PhD         Faculty of Economics, University of Split         Split         23/02/2007         RAINING         2001;2004; 2005;         Stoke-on-Trent, UK         Staffordshire University         Microeconomics         2012; 2016; 2016; 2017         Paris, Francuska; Barcelona, Spain; London,UK; Birmingham, UK         HEC; Barcelona Graduate School of Economics (GSE); Imperial College London; Aston University.         Mikroekonomija
Degree Institution Place Date INFORMATION ON ADDITIONAL T Year Place Institution Field of training Year Place Institution Field of training	PhD         Faculty of Economics, University of Split         Split         23/02/2007         RAINING         2001;2004; 2005;         Stoke-on-Trent, UK         Staffordshire University         Microeconomics         2012; 2016; 2016; 2017         Paris, Francuska; Barcelona, Spain; London,UK; Birmingham, UK         HEC; Barcelona Graduate School of Economics (GSE); Imperial College London; Aston University.         Mikroekonomija
Degree Institution Place Date INFORMATION ON ADDITIONAL T Year Place Institution Field of training Year Place Institution Field of training MOTHER TONGUE AND FOREIGN	PhD Faculty of Economics, University of Split Split 23/02/2007 RAINING 2001;2004; 2005; Stoke-on-Trent, UK Staffordshire University Microeconomics 2012; 2016; 2016; 2017 Paris, Francuska; Barcelona, Spain; London,UK; Birmingham, UK HEC; Barcelona Graduate School of Economics (GSE); Imperial College London; Aston University. Mikroekonomija NLANGUAGES
Degree Institution Place Date INFORMATION ON ADDITIONAL T Year Place Institution Field of training Year Place Institution Field of training MOTHER TONGUE AND FOREIGN Mother tongue Foreign language and command of foreign language on a scale	PhD Faculty of Economics, University of Split Split 23/02/2007 RAINING 2001;2004; 2005; Stoke-on-Trent, UK Staffordshire University Microeconomics 2012; 2016; 2016; 2017 Paris, Francuska; Barcelona, Spain; London,UK; Birmingham, UK HEC; Barcelona Graduate School of Economics (GSE); Imperial College London; Aston University. Mikroekonomija LANGUAGES Croatian
Degree         Institution         Place         Date         INFORMATION ON ADDITIONAL T         Year         Place         Institution         Field of training         Year         Place         Institution         Field of training         MOTHER TONGUE AND FOREIGN         Mother tongue         Foreign language and command         of foreign language on a scale         from 2 (sufficient) to 5 (excellent)	PhD Faculty of Economics, University of Split Split 23/02/2007 RAINING 2001;2004; 2005; Stoke-on-Trent, UK Staffordshire University Microeconomics 2012; 2016; 2016; 2017 Paris, Francuska; Barcelona, Spain; London,UK; Birmingham, UK HEC; Barcelona Graduate School of Economics (GSE); Imperial College London; Aston University. Mikroekonomija LANGUAGES Croatian
Degree         Institution         Place         Date         INFORMATION ON ADDITIONAL T         Year         Place         Institution         Field of training         Year         Place         Institution         Field of training         Mother tongue         Foreign language and command         of foreign language and command         of foreign language and command         Foreign language and command	PhD Faculty of Economics, University of Split Split 23/02/2007 RAINING 2001;2004; 2005; Stoke-on-Trent, UK Staffordshire University Microeconomics 2012; 2016; 2016; 2017 Paris, Francuska; Barcelona, Spain; London,UK; Birmingham, UK HEC; Barcelona Graduate School of Economics (GSE); Imperial College London; Aston University. Mikroekonomija LANGUAGES Croatian
Degree         Institution         Place         Date         INFORMATION ON ADDITIONAL T         Year         Place         Institution         Field of training         Year         Place         Institution         Field of training         Year         Place         Institution         Field of training         MOTHER TONGUE AND FOREIGN         Mother tongue         Foreign language and command         of foreign language on a scale         from 2 (sufficient) to 5 (excellent)         Foreign language and command         of foreign language on a scale	PhD Faculty of Economics, University of Split Split 23/02/2007 RAINING 2001;2004; 2005; Stoke-on-Trent, UK Staffordshire University Microeconomics 2012; 2016; 2016; 2017 Paris, Francuska; Barcelona, Spain; London,UK; Birmingham, UK HEC; Barcelona Graduate School of Economics (GSE); Imperial College London; Aston University. Mikroekonomija LANGUAGES Croatian
Degree         Institution         Place         Date         INFORMATION ON ADDITIONAL T         Year         Place         Institution         Field of training         Year         Place         Institution         Field of training         Year         Place         Institution         Field of training         MOTHER TONGUE AND FOREIGN         Mother tongue         Foreign language and command         of foreign language on a scale         from 2 (sufficient) to 5 (excellent)         Foreign language on a scale         from 2 (sufficient) to 5 (excellent)	PhD Faculty of Economics, University of Split Split 23/02/2007 RAINING 2001;2004; 2005; Stoke-on-Trent, UK Staffordshire University Microeconomics 2012; 2016; 2016; 2017 Paris, Francuska; Barcelona, Spain; London,UK; Birmingham, UK HEC; Barcelona Graduate School of Economics (GSE); Imperial College London; Aston University. Mikroekonomija LANGUAGES Croatian
Degree         Institution         Place         Date         INFORMATION ON ADDITIONAL T         Year         Place         Institution         Field of training         Year         Place         Institution         Field of training         MOTHER TONGUE AND FOREIGN         Mother tongue         Foreign language and command         of foreign language and command	PhD Faculty of Economics, University of Split Split 23/02/2007 RAINING 2001;2004; 2005; Stoke-on-Trent, UK Staffordshire University Microeconomics 2012; 2016; 2016; 2017 Paris, Francuska; Barcelona, Spain; London,UK; Birmingham, UK HEC; Barcelona Graduate School of Economics (GSE); Imperial College London; Aston University. Mikroekonomija LANGUAGES Croatian
Degree         Institution         Place         Date         INFORMATION ON ADDITIONAL T         Year         Place         Institution         Field of training         Year         Place         Institution         Field of training         Year         Place         Institution         Field of training         MOTHER TONGUE AND FOREIGN         Mother tongue         Foreign language and command         of foreign language on a scale         from 2 (sufficient) to 5 (excellent)         Foreign language on a scale         from 2 (sufficient) to 5 (excellent)	PhD Faculty of Economics, University of Split Split 23/02/2007 RAINING 2001;2004; 2005; Stoke-on-Trent, UK Staffordshire University Microeconomics 2012; 2016; 2016; 2017 Paris, Francuska; Barcelona, Spain; London,UK; Birmingham, UK HEC; Barcelona Graduate School of Economics (GSE); Imperial College London; Aston University. Mikroekonomija LANGUAGES Croatian

COMPETENCES FOR THE COURSE	
Earlier experience as course teacher of similar courses (name title of course, study programme where it is/was offered, and level of study programme)	Microeconomics I, Faculty of Economics, University of Split Undergraduate study Microeconomics II, Faculty of Economics, University of Split Undergraduate study Microeconomics III, Faculty of Economics, University of Split Graduate study
Authorship of university/faculty textbooks in the field of the course	<ol> <li>Pervan, M., (2013). "<i>Mikroekonomija - zbirka zadataka</i>", treće izdanje, Ekonomski fakultet Split. ISBN 978-953-281- 001-1</li> <li>Pervan, M., (2008). "<i>Mikroekonomija - zbirka zadataka</i>", drugo dopunjeno izdanje, Ekonomski fakultet Split. ISBN 978-953-281-001-1</li> <li>Pervan, M., (2005). "<i>Mikroekonomija - zbirka zadataka</i>", Ekonomski fakultet Split. ISBN 953-6024-73-X</li> </ol>
Professional, scholarly and artistic articles published in the last five years in the field of the course (5 works at most)	<ol> <li>Pervan, M., Pervan, I, Ćurak, M. Does Business Success Enhance With Firm's Age? Case of Croatian Food Manufacturing Industry, 27<sup>th</sup> IBIMA conference on Innovation Management and Education Excellence Vision 2020: from Regional Development Sustainability to Global Economic Growth, 2016. pp. 3094-3101. ISBN: 978-0-9860419-6-9.</li> </ol>
	<ol> <li>Pervan, M., Pelivan, I., Arnerić, J., Profit Persistence and Determinants of Bank Profitability in Croatia, Economic Research - Ekonomska Istraživanja, Taylor &amp; Francis, Vol. 28, No. 1, 2015., pp. 284–298. ISSN 1331-677X (Print), 1848- 9664 (Online).</li> </ol>
	<ol> <li>Pervan, M., Mlikota, M., What Determines the Profitability of Companies?: Case of Croatian Food and Beverage Industry, Ekonomska istraživanja, Vol. 26, No. 1, 2013., pp. 277-286. ISSN: 1331-677X.</li> </ol>
Professional and scholarly articles published in the last five years in subjects of teaching methodology and teaching quality (5 works at most)	
Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)	<ol> <li>2015th to 2018th - scientific project "Determinants of business success" financed by the Croatian Science Foundation (project code: UIP-2014-09-1745)</li> <li>2007th to 2014th - scientific project "Effects of Croatia's Accession to EU on Croatian Firms' Profitability " financed by MZOŠ (project code: 055-0551147-1105)</li> <li>Pervan, I., et al. (2011): An assessment of the right to use the license "Heating system"</li> <li>Pervan, I. Pervan, M. (2010): Evaluation of the aparthotel Astoria with the method of capitalized net profit.</li> </ol>
The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences?-pedagoške kompetencije?	Development and improvement of teaching competencies of university teachers; Faculty of humanities and social sciences, University of Split, 17/11 - 28/11/2014
PRIZES AND AWARDS, STUDENT	
Prizes and awards for teaching and scholarly/artistic work	<ul> <li>1998 Dean's award</li> <li>2004 Award for achievements in scientific and educational work of the Faculty of Economics, University of Split</li> </ul>

	<ul> <li>2012 Certificate of Best Presenter Award in recognition for the support as a distinguished speaker for the Global Management, Finance &amp; Information Technology Research Conference, New York, USA.</li> </ul>
Results of student evaluation taken in the last five years for the course that is comparable to the course described in the form (evaluation organizer, average grade, note on grading scale and course evaluated)	4,7/5

First and last name and title of	Tonži Diržić Dh. D. Accesicto Drofessor
teacher	Tonči Piršić, Ph. D., Associate Professor
The course he/she teaches in the proposed study programme	Enginering graphics 2
GENERAL INFORMATION ON COU	RSE TEACHER
Address	Stepinčeva 2, 21000 Split
Telephone number	021/535517
E-mail address	tpirsic@fesb.hr
Personal web page	www.fesb.hr/kk
Year of birth	1959.
Scientist ID	134894
Research or art rank, and date of last rank appointment	Higher scientific colaborator 15. 06. 2016.
Research-and-teaching, art-and- teaching or teaching rank, and date of last rank appointment	Associate proffesor 15. 06. 2016.
Area and field of election into research or art rank	Technical science, general mechanical engineering, construction
INFORMATION ON CURRENT EMP	•
Institution where employed	Faculty of Electrical Engineering, Mechanical Engineering and
	Naval Architecture
Date of employment	01. 10. 1987.
Name of position (professor,	Proffesor
researcher, associate teacher, etc.) Field of research	Machine elemente, fatigue of materiale, transport in industry
Function	Machine elements, fatigue of materials, transport in industry
INFORMATION ON EDUCATION - I	
Degree	PhD
Institution	Faculty of Mechanical Engineering and Naval Architecture
Place	Zagreb
Date	15.06. 1999.
INFORMATION ON ADDITIONAL TR	
Year	2001
Place	Bologna, Italy
Institution	University of Bologna
Field of training	Fatogu of materials
MOTHER TONGUE AND FOREIGN	
Mother tongue	Croatian
Foreign language and command of	English 5
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	Italian 2
Foreign language and command of	Italian 3
foreign language on a scale from 2 (sufficient) to 5 (excellent)	
Foreign language and command of	
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURS	Ε
Earlier experience as course	Professor of Enginering graphics 2 Undergraduate study
teacher of similar courses (name	programme,
title of course, study programme	
where it is/was offered, and level of	
study programme)	
	T. Piršić: Tehničko crtanje, FESB Split, 2010. T. Piršić: AutoCAD u Strojarstvu, FESB Split, 2008.

Professional, scholarly and artistic articles published in the last five years in the field of the course (5 works at most)	T. Piršić: "Experimentally Based Method for Fatigue Life Prediction of Aluminium Welded Joints", Fatigue 99, Proceedings of the 7. International Fatigue Congress, Beijing, P.R. China, Editors X. R Wu and Z. G. Wang, pp. 1309 -1312, Volume 2/4, Higher Education Press, Beijing, P.R. China, Engineering Advisory Services Ltd, UK, 1999. ISBN 1901537080 (Rad objavljen u knjizi)
	Ž. Domazet, Ž. Lozina, T. Piršić: "Fatigue Damage and Repair of 250 kN Crane in Shipyard", Proceedings of the 10 <sup>th</sup> International Conference on Fracture, Hawai, USA, 2001.
	Ž. Domazet, T. Piršić: "Fatigue Failures in industry – Case Studies", Proceedings of the 7 <sup>th</sup> International Design Conference, Vol. 2., pp. 1153-1158, ISBN 953-6313-47-9, Dubrovnik, 2002.
	Ž. Domazet, T. Piršić, M. Stupalo: "Fatigue Damages and Repair of a Cement Mill Gear Wheel", Proceedings of 4 <sup>th</sup> International Congress of Croatian Society of Mechanics, pp. 145-151, ISBN 953-96243-4-7, Bizovac, Croatia, 2003.
Professional and scholarly articles published in the last five years in subjects of teaching methodology and teaching quality (5 works at most)	
Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)	
The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences?-pedagoške kompetencije?	
PRIZES AND AWARDS, STUDENT	EVALUATION
Prizes and awards for teaching and scholarly/artistic work	
Results of student evaluation taken	

in the last five years for the course	
that is comparable to the course	
described in the form (evaluation	
organizer, average grade, note on	
grading scale and course	
evaluated)	

First and last name and title of teacher	Srdjan Podrug, Ph.D., Associate Professor
The course he/she teaches in the	
proposed study programme	Machine Elements
GENERAL INFORMATION ON COU	
Address	Kroz Smrdečac 13
Telephone number	+385-91-4305-992
E-mail address	spodrug@fesb.hr
Personal web page	www.fesb.hr/~spodrug
Year of birth	1971
Scientist ID	233771
Research or art rank, and date of	
last rank appointment	Senior scientific associate, 10/02/2010
Research-and-teaching, art-and-	
teaching or teaching rank, and date	Associate professor, 17/02/2010
of last rank appointment	
Area and field of election into	Technical sciences, Mechanical Engineering
research or art rank	
INFORMATION ON CURRENT EMP	
Institution where employed	University of Split, Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture
Date of employment	5/02/1996
Name of position (professor,	Associate professor
researcher, associate teacher, etc.)	
Field of research	Machine Elements, Fatigue, Fracture Mechanics
Function	Chair of Machine Elements
<b>INFORMATION ON EDUCATION – I</b>	
Degree	Ph.D.
Institution	University of Split, Faculty of Electrical Engineering, Mechanical
	Engineering and Naval Architecture
Place	Split 27/09/2004
Date	
INFORMATION ON ADDITIONAL TR	
INFORMATION ON ADDITIONAL TR Year	
INFORMATION ON ADDITIONAL TR Year Place	
INFORMATION ON ADDITIONAL TR Year Place Institution	
INFORMATION ON ADDITIONAL TR Year Place Institution Field of training	AINING
INFORMATION ON ADDITIONAL TR Year Place Institution Field of training MOTHER TONGUE AND FOREIGN	LANGUAGES
INFORMATION ON ADDITIONAL TR Year Place Institution Field of training MOTHER TONGUE AND FOREIGN Mother tongue	AINING
INFORMATION ON ADDITIONAL TR Year Place Institution Field of training MOTHER TONGUE AND FOREIGN Mother tongue Foreign language and command of	AINING LANGUAGES Croatian
INFORMATION ON ADDITIONAL THE Year Place Institution Field of training MOTHER TONGUE AND FOREIGN Mother tongue Foreign language and command of foreign language on a scale from 2	LANGUAGES
INFORMATION ON ADDITIONAL TR Year Place Institution Field of training MOTHER TONGUE AND FOREIGN Mother tongue Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)	AINING LANGUAGES Croatian
INFORMATION ON ADDITIONAL TR Year Place Institution Field of training MOTHER TONGUE AND FOREIGN Mother tongue Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of	AINING LANGUAGES Croatian
INFORMATION ON ADDITIONAL TR Year Place Institution Field of training MOTHER TONGUE AND FOREIGN Mother tongue Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)	AINING LANGUAGES Croatian English 4
INFORMATION ON ADDITIONAL TR Year Place Institution Field of training MOTHER TONGUE AND FOREIGN Mother tongue Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2	AINING LANGUAGES Croatian English 4
INFORMATION ON ADDITIONAL TH Year Place Institution Field of training MOTHER TONGUE AND FOREIGN Mother tongue Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2	AINING LANGUAGES Croatian English 4
INFORMATION ON ADDITIONAL TH Year Place Institution Field of training MOTHER TONGUE AND FOREIGN Mother tongue Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of foreign language and command of	AINING LANGUAGES Croatian English 4
INFORMATION ON ADDITIONAL TF Year Place Institution Field of training MOTHER TONGUE AND FOREIGN Mother tongue Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2	AINING AINING AINING LANGUAGES Croatian English 4 Italian 2 E
INFORMATION ON ADDITIONAL TH Year Place Institution Field of training MOTHER TONGUE AND FOREIGN Mother tongue Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language on a scale from 2 (sufficient) to 5 (excellent) COMPETENCES FOR THE COURS Earlier experience as course	AINING AINING LANGUAGES Croatian English 4 Italian 2
INFORMATION ON ADDITIONAL TH Year Place Institution Field of training MOTHER TONGUE AND FOREIGN Mother tongue Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language on a scale from 2 (sufficient) to 5 (excellent) COMPETENCES FOR THE COURS Earlier experience as course teacher of similar courses (name	AINING AINING AINING ANGUAGES Croatian English 4 Italian 2 E Course teacher of courses: • Machine elements 1 and Machine elements 2 /
INFORMATION ON ADDITIONAL TH Year Place Institution Field of training MOTHER TONGUE AND FOREIGN Mother tongue Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language on a scale from 2 (sufficient) to 5 (excellent) COMPETENCES FOR THE COURS Earlier experience as course	AINING AI

study programme) Authorship of university/faculty	<ul> <li>architecture, undergraduate vocational study Naval architecture and undergraduate university study Industrial engineering</li> <li>Introduction to fracture mechanics and Mechanical drives / graduate university study Mechanical engineering</li> <li>Integrity of machines and structures, Fracture mechanics and Machine Elements: Selected chapters / postgraduate university study Mechanical engineering</li> </ul>	
textbooks in the field of the course		
Professional, scholarly and artistic articles published in the last five years in the field of the course (5 works at most)	<ol> <li>Jelaska, Damir; Podrug, Srdjan; Perkušić, Milan., Kinematic Synthesis of a Novel Type of the Series of Transmissions with Independently Controllable Output Speed, Mechanism and Machine Theory, 103 (2016); 189-201</li> <li>Jelaska Damir; Podrug Srdjan; Perkušić Milan., A novel hybrid transmission for variable speed wind turbines, Renewable energy, 83 (2015); 78-84</li> <li>Jelaska Damir; Podrug Srdjan; Perkušić, Milan., Proposition of the series of transmissions having an independently controllable output speed, International Journal Advanced Engineering, 6 (2015), 1; 13-21</li> <li>Jelaska, Damir; Podrug, Srdjan; Perkušić, Mllan.</li> <li>On the feasibility of the power split type transmissions having independently controllable output speed, International Journal of Advanced Engineering, 7 (2013)</li> <li>Perkušić, Milan; Jelaska, Damir; Podrug, Srdjan, Estimation of fatigue life of involute gears, Strojarstvo, 54 (2012), 5; 381- 391 (in croatian)</li> </ol>	
Professional and scholarly articles published in the last five years in subjects of teaching methodology and teaching quality (5 works at most)		
Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)	Development of components life assessment procedures (Project MSES no. 023-0692195-1749), 20072013.	
The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences?-pedagoške kompetencije?	Training for teachers and administrative staff in the EU project ME4CataLOgue (Mechanical Engineering for Catalogue)	
PRIZES AND AWARDS, STUDENT EVALUATION		
Prizes and awards for teaching and scholarly/artistic work		
Results of student evaluation taken in the last five years for the course that is comparable to the course described in the form (evaluation organizer, average grade, note on grading scale and course evaluated)	Grade for this course in the last year: 4,80/5.	

First and last name and title of	Ivica Puljak, Ph.D., Full Professor
teacher	
The course he/she teaches in the proposed study programme	Physics
GENERAL INFORMATION ON COU	RSE TEACHER
Address	Vinogradska 80, 21000 Split
Telephone number	0915389040
E-mail address	lvica.Puljak@fesb.hr
Personal web page	
Year of birth	1969
Scientist ID	233396
Research or art rank, and date of last rank appointment	
Research-and-teaching, art-and-	Full professor, February 2017
teaching or teaching rank, and date	
of last rank appointment	
Area and field of election into	Area of natural sciences, field of physics
research or art rank	
INFORMATION ON CURRENT EMP	LOYMENT
Institution where employed	University of Split
	Faculty of Electrical Engineering, Mechanical Engineering and
	Naval Architecture
	R. Boškovića 32
	21000 Split
	Croatia
Date of employment	12.5.1994.
Name of position (professor,	professor
researcher, associate teacher, etc.)	
Field of research	Physics
Function	
INFORMATION ON EDUCATION - I	
Degree	PhD
Institution	University of Pierre and Marie Curie
Place	Paris, France
Place Date	Paris, France September 2000
	September 2000 RAINING
Date INFORMATION ON ADDITIONAL TR Year	September 2000 RAINING 1994. – 2017. god.
Date INFORMATION ON ADDITIONAL TR Year Place	September 2000 RAINING 1994. – 2017. god. Geneva
Date INFORMATION ON ADDITIONAL TR Year Place Institution	September 2000 RAINING 1994. – 2017. god. Geneva CERN
Date INFORMATION ON ADDITIONAL TR Year Place Institution Field of training	September 2000 RAINING 1994. – 2017. god. Geneva CERN Experimenatal Elementary Particle Physics
Date INFORMATION ON ADDITIONAL TR Year Place Institution	September 2000 RAINING 1994. – 2017. god. Geneva CERN Experimenatal Elementary Particle Physics LANGUAGES
Date INFORMATION ON ADDITIONAL TR Year Place Institution Field of training MOTHER TONGUE AND FOREIGN Mother tongue	September 2000 RAINING 1994. – 2017. god. Geneva CERN Experimenatal Elementary Particle Physics LANGUAGES Croatian
Date INFORMATION ON ADDITIONAL TR Year Place Institution Field of training MOTHER TONGUE AND FOREIGN Mother tongue Foreign language and command of	September 2000 RAINING 1994. – 2017. god. Geneva CERN Experimenatal Elementary Particle Physics LANGUAGES
Date INFORMATION ON ADDITIONAL TR Year Place Institution Field of training MOTHER TONGUE AND FOREIGN Mother tongue Foreign language and command of foreign language on a scale from 2	September 2000 RAINING 1994. – 2017. god. Geneva CERN Experimenatal Elementary Particle Physics LANGUAGES Croatian
Date INFORMATION ON ADDITIONAL TR Year Place Institution Field of training MOTHER TONGUE AND FOREIGN Mother tongue Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)	September 2000 RAINING 1994. – 2017. god. Geneva CERN Experimenatal Elementary Particle Physics LANGUAGES Croatian English 5
Date INFORMATION ON ADDITIONAL TR Year Place Institution Field of training MOTHER TONGUE AND FOREIGN Mother tongue Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of	September 2000 RAINING 1994. – 2017. god. Geneva CERN Experimenatal Elementary Particle Physics LANGUAGES Croatian
Date INFORMATION ON ADDITIONAL TR Year Place Institution Field of training MOTHER TONGUE AND FOREIGN Mother tongue Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2	September 2000 RAINING 1994. – 2017. god. Geneva CERN Experimenatal Elementary Particle Physics LANGUAGES Croatian English 5
Date INFORMATION ON ADDITIONAL TR Year Place Institution Field of training MOTHER TONGUE AND FOREIGN Mother tongue Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language on a scale from 2 (sufficient) to 5 (excellent)	September 2000 AINING 1994. – 2017. god. Geneva CERN Experimenatal Elementary Particle Physics LANGUAGES Croatian English 5 French 5
Date INFORMATION ON ADDITIONAL TR Year Place Institution Field of training MOTHER TONGUE AND FOREIGN Mother tongue Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language on a scale from 2 (sufficient) to 5 (excellent) COMPETENCES FOR THE COURS	September 2000 RAINING 1994. – 2017. god. Geneva CERN Experimenatal Elementary Particle Physics LANGUAGES Croatian English 5 French 5 E
Date INFORMATION ON ADDITIONAL TR Year Place Institution Field of training MOTHER TONGUE AND FOREIGN Mother tongue Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language on a scale from 2 (sufficient) to 5 (excellent) COMPETENCES FOR THE COURS Earlier experience as course	September 2000 RAINING 1994. – 2017. god. Geneva CERN Experimenatal Elementary Particle Physics LANGUAGES Croatian English 5 French 5 E Higgs boson physcis, doctoral program, Ecole Polytechnique,
Date INFORMATION ON ADDITIONAL TH Year Place Institution Field of training MOTHER TONGUE AND FOREIGN Mother tongue Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language on a scale from 2 (sufficient) to 5 (excellent) COMPETENCES FOR THE COURS Earlier experience as course teacher of similar courses (name	September 2000 RAINING 1994. – 2017. god. Geneva CERN Experimenatal Elementary Particle Physics LANGUAGES Croatian English 5 French 5 E Higgs boson physcis, doctoral program, Ecole Polytechnique, Palaiseau, France and ETH, Zurich, Switzerland
Date INFORMATION ON ADDITIONAL TH Year Place Institution Field of training MOTHER TONGUE AND FOREIGN Mother tongue Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language on a scale from 2 (sufficient) to 5 (excellent) COMPETENCES FOR THE COURS Earlier experience as course teacher of similar courses (name title of course, study programme	September 2000  AINING  1994. – 2017. god.  Geneva  CERN  Experimenatal Elementary Particle Physics  LANGUAGES  Croatian  English 5  French 5  Higgs boson physcis, doctoral program, Ecole Polytechnique, Palaiseau, France and ETH, Zurich, Switzerland Numerical method in high energy physics, graduate program,
Date INFORMATION ON ADDITIONAL TH Year Place Institution Field of training MOTHER TONGUE AND FOREIGN Mother tongue Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) COMPETENCES FOR THE COURS Earlier experience as course teacher of similar courses (name title of course, study programme where it is/was offered, and level of	September 2000 RAINING 1994. – 2017. god. Geneva CERN Experimenatal Elementary Particle Physics LANGUAGES Croatian English 5 French 5 E Higgs boson physcis, doctoral program, Ecole Polytechnique, Palaiseau, France and ETH, Zurich, Switzerland
Date INFORMATION ON ADDITIONAL TH Year Place Institution Field of training MOTHER TONGUE AND FOREIGN Mother tongue Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language on a scale from 2 (sufficient) to 5 (excellent) COMPETENCES FOR THE COURS Earlier experience as course teacher of similar courses (name title of course, study programme	September 2000  AINING  1994. – 2017. god.  Geneva  CERN  Experimenatal Elementary Particle Physics  LANGUAGES  Croatian  English 5  French 5  Higgs boson physcis, doctoral program, Ecole Polytechnique, Palaiseau, France and ETH, Zurich, Switzerland Numerical method in high energy physics, graduate program,

textbooks in the field of the course	Faculty text book:
	Instructions for laboratory exercises in Physics 1
Professional, scholarly and artistic articles published in the last five years in the field of the course (5 works at most)	
Professional and scholarly articles published in the last five years in subjects of teaching methodology and teaching quality (5 works at most) Professional, science and artistic	None HRZZ Research Projects (IP-11-2013), Croatian Science
projects in the field of the course carried out in the last five years (5 at most)	Foundation (1.10.2014. god. – 30.9.2018. god.). <i>HRZZ Research Projects</i> (Very high energy gamma ray astronomy with the MAGIC telescopes), Croatian Science Foundation (1.7.2012. god. – 31.12.2016.).
The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences?-pedagoške kompetencije?	
PRIZES AND AWARDS, STUDENT	
Prizes and awards for teaching and scholarly/artistic work	2017 Science and art Award from the University of

		Split
	2016	Award for the best presentation from "Društvo za promociju znanosti i kritičkog mišljenja"
	2014	Croatian National Science Award
	2014	Science Award from the University of Split
	2013	European Physical Society Prize, The 2013 High Energy and Particle Physics Prize
		Co-winner as a member of the CMS Collaboration
	2013 with Ruđer Bos	Croatian National Order of "Danica Hrvatska", šković, for scientific contribution
	2011 "Slobodna Dali	Annual Science Award by the newspaper macija"
	2011 association	Distinguished Teaching Award by the student
	2001	Best Thesis Award by the CMS collaboration
	2000	PhD from University «Pierre et Marie Currie», Paris VI, obtained with Honours
		Très honorable, avec les félicitations du jury
Results of student evaluation taken in the last five years for the course that is comparable to the course described in the form (evaluation organizer, average grade, note on grading scale and course evaluated)		

First and last name and title of	Branka Ramljak, PhD
teacher	
The course he/she teaches in the	Accounting
proposed study programme	
GENERAL INFORMATION ON COU	RSE TEACHER
Address	Barakovićeva 18, Split
Telephone number	+385 21 430611
E-mail address	bramljak@efst.hr
Personal web page	-
Year of birth	1962.
Scientist ID	165075
Research or art rank, and date of last rank appointment	-
Research-and-teaching, art-and- teaching or teaching rank, and date of last rank appointment	Senior Full professor, 16/10/2014
Area and field of election into research or art rank	Area of social sciences, Field of economics, Accounting
INFORMATION ON CURRENT EMP	LOYMENT
Institution where employed	University of Split, Faculty of Economics
Date of employment	04/01/1988
Name of position (professor,	Professor
researcher, associate teacher, etc.)	
Field of research	Accounting, financial reporting, accounting policies, accounting costs, accounting for small and medium-sized businesses, non-profit accounting, budget accounting
Function	Head of Department of Accounting
INFORMATION ON EDUCATION - H	Highest degree earned
Degree	PhD
Institution	University of Split, Faculty of Economics
Place	Split
Date	16/6/1999
INFORMATION ON ADDITIONAL TR	RAINING
Year	1992/1997/2002/2005/2010/2011
Place	
	Bologna- Italy; Lexington-Kentucky, USA; Stoke on Trent- England; Vasteras-Sweden i Budapest–Hungary; Dresden- Germany
Institution	England; Vasteras-Sweden i Budapest–Hungary; Dresden- Germany Universita de Bologna; School of Accountancy; Staffordshire University; Malardalen University i Corvinus University;
Institution Field of training	England; Vasteras-Sweden i Budapest–Hungary; Dresden- Germany Universita de Bologna; School of Accountancy; Staffordshire University; Malardalen University i Corvinus University; Technische Universitat Dresden The preparation of the master thesis; Preparing a doctoral dissertation; Analysis of curriculum of graduate and
	England; Vasteras-Sweden i Budapest–Hungary; Dresden- Germany Universita de Bologna; School of Accountancy; Staffordshire University; Malardalen University i Corvinus University; Technische Universitat Dresden The preparation of the master thesis; Preparing a doctoral
	England; Vasteras-Sweden i Budapest–Hungary; Dresden- Germany Universita de Bologna; School of Accountancy; Staffordshire University; Malardalen University i Corvinus University; Technische Universitat Dresden The preparation of the master thesis; Preparing a doctoral dissertation; Analysis of curriculum of graduate and postgraduate studies and harmonization curriculum items; Participation in the EU project TEMPUS, called "Towards to Equitable and Transparent Access to Higher Education in Croatia"
Field of training	England; Vasteras-Sweden i Budapest–Hungary; Dresden- Germany Universita de Bologna; School of Accountancy; Staffordshire University; Malardalen University i Corvinus University; Technische Universitat Dresden The preparation of the master thesis; Preparing a doctoral dissertation; Analysis of curriculum of graduate and postgraduate studies and harmonization curriculum items; Participation in the EU project TEMPUS, called "Towards to Equitable and Transparent Access to Higher Education in Croatia"
Field of training MOTHER TONGUE AND FOREIGN Mother tongue Foreign language and command of foreign language on a scale from 2	England; Vasteras-Sweden i Budapest–Hungary; Dresden- Germany Universita de Bologna; School of Accountancy; Staffordshire University; Malardalen University i Corvinus University; Technische Universitat Dresden The preparation of the master thesis; Preparing a doctoral dissertation; Analysis of curriculum of graduate and postgraduate studies and harmonization curriculum items; Participation in the EU project TEMPUS, called "Towards to Equitable and Transparent Access to Higher Education in Croatia"
Field of training           MOTHER TONGUE AND FOREIGN           Mother tongue           Foreign language and command of	England; Vasteras-Sweden i Budapest–Hungary; Dresden- Germany Universita de Bologna; School of Accountancy; Staffordshire University; Malardalen University i Corvinus University; Technische Universitat Dresden The preparation of the master thesis; Preparing a doctoral dissertation; Analysis of curriculum of graduate and postgraduate studies and harmonization curriculum items; Participation in the EU project TEMPUS, called "Towards to Equitable and Transparent Access to Higher Education in Croatia"

foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURS	E
Earlier experience as course teacher of similar courses (name title of course, study programme where it is/was offered, and level of study programme)	Basic of Accounting, Undergraduate study programme, Accounting, Undergraduate study programme Cost accounting, Undergraduate study programme
Authorship of university/faculty	
textbooks in the field of the course Professional, scholarly and artistic articles published in the last five years in the field of the course (5 works at most)	<ol> <li>Ramljak, B. (2016), Uloga računovodstvenih politika u poslovnoj politici trgovačkih društava, 51. Simpozij "Aktualne dileme i i zazovi računovodstva, revizije i poreza u Republici Hrvatskoj", Vodice, 0204.06.2016.</li> <li>B. Ramljak, P. Pepur: <i>Compatibility of Accounting Policies</i> <i>in Croatian companies</i>, 4th International Conference "Vallis Aurea" Focus on: Regional &amp; Innovation Development, <u>Rad</u> <u>objavljen u Zborniku</u>, Veleučilište u Požegi, September 18th-20th, Pozega – Vienna, Croatia-Austria, 2014., pp. 0559-0563, ISBN 978-3-902734-02-0, ISSN 1847-8204.</li> <li>B. Ramljak, K. Žager: <i>Stanje i razvoj financijskog</i> <i>izvještavanja malih i srednjih poduzeća u RH i EU</i>, Rad objavljen u časopisu "Računovodstvo i financije, br. 7., Zagreb, 2013., str. 23-31</li> <li>B. Ramljak: <i>Racionalizacija troškova u funkciji ostvarenja</i> <i>poslovnog rezultata</i>, 48. Savjetovanje JESEN 2013 – Računovođa i financijskih djelatnika, Brela, 24-26.10.2013., str. 1-12</li> <li>B. Ramljak, K. Žager: <i>Harmonizacija financijskog</i> <i>izvještavanja malih i srednjih poduzeća u RH i EU</i>, Rad objavljen i izložen u Zbornik radova 48. simpozij "Računovođstvo, porezi i plaće u Hrvatskoj pred ulazak u</li> </ol>
Professional and scholarly articles published in the last five years in subjects of teaching methodology and teaching quality (5 works at most)	EU", HZRFD, Šibenik, 0911.05.2013. str. 193-201.
Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)	
The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences?-pedagoške kompetencije?	
PRIZES AND AWARDS, STUDENT	EVALUATION
Prizes and awards for teaching and	
scholarly/artistic work Results of student evaluation taken	4,9/5
in the last five years for the course that is comparable to the course described in the form (evaluation organizer, average grade, note on	

grading scale and course evaluated)	
cvaluated)	

First and last name and title of	Zlatan Reić
teacher	
The course he/she teaches in the	Principles of economics
proposed study programme	
GENERAL INFORMATION ON COU	RSE TEACHER
Address	Cvite Fiskovića 5
Telephone number	021430677
E-mail address	zreic@efst.hr
Personal web page	-
Year of birth	1948.
Scientist ID	40684
Research or art rank, and date of	
last rank appointment	
Research-and-teaching, art-and-	Professor, 17.7 2007.
teaching or teaching rank, and date	
of last rank appointment	
Area and field of election into	Social sciences, economics
research or art rank	
INFORMATION ON CURRENT EMP	LOYMENT
Institution where employed	Faculty of Economics Split
Date of employment	17. 11. 1972
Name of position (professor,	Professor
researcher, associate teacher, etc.)	
Field of research	Poliotical economy, history of economic thought
Function	Co-holder of the course
INFORMATION ON EDUCATION - H	Highest degree earned
Degree	PhD in economics
Institution	Faculty of Economics Split
Place	Split
Date	12. 6. 1992
INFORMATION ON ADDITIONAL TR	RAINING
Year	1996.
Place	Lexington, Kentucky, USA
Institution	Carol Martin Gatton College of Business and Economics
Field of training	Faculty Development Program II
MOTHER TONGUE AND FOREIGN	LANGUAGES
Mother tongue	Croatian
Foreign language and command of	English, 4
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Foreign language and command of	
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Foreign language and command of	
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURS	
Earlier experience as course	Rich experience in similar courses (Introduction to economics,
teacher of similar courses (name	1st year, undergraduate study)
title of course, study programme	
where it is/was offered, and level of	
study programme)	Doiá 7. Miholioviá Koose M. Čimić V/ "Elementia"
Authorship of university/faculty	Reić, Z., Mihaljević Kosor, M., Šimić, V. "Ekonomija",
textbooks in the field of the course Professional, scholarly and artistic	Ekonomski fakultet Split, 2017. Reić, Z., Mihaljević Kosor, M., Šimić, V. "Ekonomija",
	ERECT WURANEVIC KOSOF WE SITUR V "EKONOMIJA"

articles published in the last five years in the field of the course (5 works at most)	Ekonomski fakultet Split, 2017. Reić, Z., Mihaljević Kosor, M., Ekonomija (2011) 3. izmijenjeno izdanje, Ekonomski fakultet Sveučilište u Splitu. Reić, Z., Challenges of Europe: Growth and Competitiveness- Reversing the Trends, Forward, (2011), Conference Proceedings, University of Split, Faculty of Economics.
Professional and scholarly articles published in the last five years in subjects of teaching methodology and teaching quality (5 works at most)	
Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)	
The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences.	
PRIZES AND AWARDS, STUDENT	EVALUATION
Prizes and awards for teaching and scholarly/artistic work	Osobna godišnja nagrada grada Splita za doprinos razvoju ekonomske znanosti. 2008.
Results of student evaluation taken in the last five years for the course that is comparable to the course described in the form (evaluation organizer, average grade, note on grading scale and course evaluated)	4,5
First and last name and title of	
--	--
teacher	Ante Rozga, Ph. D., Full Professor
The course he/she teaches in the proposed study programme	Statistics, Probability and Statistics.
GENERAL INFORMATION ON COU	RSE TEACHER
Address	21000 Split, 166 Vukovarska
Telephone number	021 430-649
E-mail address	rozga@efst.hr
Personal web page	http://www.efst.unist.hr/o-
	fakultetu/fakultet/djelatnici/osoba/detalji/rozga
Year of birth	1951
Scientist ID	057876
Research or art rank, and date of	Scientific adviser, 2009
last rank appointment	
Research-and-teaching, art-and-	Full Professor Tenure, 2014.
teaching or teaching rank, and date	
of last rank appointment Area and field of election into	Social Sciences, Economics. Quantitative Methods.
research or art rank	
INFORMATION ON CURRENT EMP	LOYMENT
Institution where employed	Faculty of Economics, University of Split
Date of employment	1.10. 1977.
Name of position (professor,	Professor.
researcher, associate teacher, etc.)	
Field of research	Quantitative Methods, Statistics. Multivariate Analysis. Survival
	Analysis. Statistical Methodology in Scientific Research.
Function	Professor.
INFORMATION ON EDUCATION - I	
Degree	PhD
Institution	Faculty of Economics.
Place	Split
Date	2001
INFORMATION ON ADDITIONAL TR	
Year	1985/86
Place	London. U.K.
Institution	The London School of Economics and Political Science, Department of Statistics. Graduate studies.
Field of training	Statistics. The Analysis of Time Series.
MOTHER TONGUE AND FOREIGN	LANGUAGES
Mother tongue	Croatian.
Foreign language and command of	English, 5
foreign language on a scale from 2	-
(sufficient) to 5 (excellent)	
Foreign language and command of	Italian, 5
foreign language on a scale from 2	Italian, 5
foreign language on a scale from 2 (sufficient) to 5 (excellent)	
foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of	Italian, 5 French, 3
foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2	
foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)	French, 3
foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) COMPETENCES FOR THE COURS	French, 3 E
foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) COMPETENCES FOR THE COURS Earlier experience as course	French, 3 E 1. Statistics. Undergraduate studies. Faculty of
foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) COMPETENCES FOR THE COURS Earlier experience as course teacher of similar courses (name	French, 3 E 1. Statistics. Undergraduate studies. Faculty of Economics, University of Split.
foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) COMPETENCES FOR THE COURS Earlier experience as course teacher of similar courses (name title of course, study programme	<ul> <li>French, 3</li> <li>E</li> <li>1. Statistics. Undergraduate studies. Faculty of Economics, University of Split.</li> <li>2. Statistical Analysis. Undergraduate studies. Faculty of</li> </ul>
foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) COMPETENCES FOR THE COURS Earlier experience as course teacher of similar courses (name	French, 3 E 1. Statistics. Undergraduate studies. Faculty of Economics, University of Split.

	<ol> <li>of Medicine. University of Split.</li> <li>Statistics. Graduate Studies. Faculty of Mechanical Engineering. University of Split.</li> <li>Probability and Statistics. Faculty of Electrical Engineering. University of Split.</li> <li>Statistical Methodology in Scientific Research. PhD Studies. Faculty of Economics, University of Split.</li> <li>Multivariate Analysis. PhD Studies. Faculty of Economics, University of Split.</li> <li>Statistical Methods in Forensics. Graduate Studies. School of Forensic Sciences. University of Split.</li> </ol>
Authorship of university/faculty textbooks in the field of the course	<ol> <li>Rozga A., (1994): Statistička analiza. Ekonomski fakultet Split. X+148 pages.</li> </ol>
	2. Rozga A., (2009): <i>Statistika za ekonomiste.</i> Ekonomski fakultet Split. X+336 pages.
	<ol> <li>Rozga A. and B. Grčić., (2009): Poslovna statistika. Ekonomski fakultet u Splitu. IX + 271 pages.</li> </ol>
	<ol> <li>Pivac S. and A. Rozga., (2007): Statistika za sociološka istraživanja. Filozofski fakultet Sveučilišta u Splitu. 264 pages.</li> </ol>
	<ol> <li>Pivac S. and A. Rozga., (2008): Statistika za sociologe. Filozofski fakultet Sveučilišta u Splitu. 231 pages.</li> </ol>
Professional, scholarly and artistic articles published in the last five years in the field of the course (5 works at most)	<ol> <li>Rozga A., E. Jurun and I. Šutalo (2013): Correction od Chain-Linking Method by Means of Lloyd-Moulton-Fisher- Tornquist Index on Croatian GDP Data. Croatian Operational Research Review.</li> </ol>
	<ol> <li>Šerić N., A. Rozga and A. Luetić (2014): Relationship between Business Intelligence and Supply Chain Management for Marketing Decisions. Universal Journal of Industrial and Business Management, 2; 31-35.</li> </ol>
	3. Visković J., J. Arnerić and A. Rozga (2014): <i>Volatility Swiching Between Two Regimes.</i> International Journal of Social, Human Science and Engineering. Madrid. Spain. Madrid. ISNN: 1307-6892. Vol:9, no 3.
	4. Arnerić, J., Čeh-Časni, A., Rozga, A. (2015): <i>Pre-adjustment Process of Real Retail Trade Series in Croatia</i> , The Business and Management Review, Vol. 6, No. 2, pp. 104-112, ISSN 2047-2854.
	5. Poklepović, T., Aljinović, Z and Rozga, A (2016): Moments Extraction from Implied Probability Distribution: Nonstructural Approach. Proceedings of the 02nd International Conference on Business Management and Economics: 02nd ICBME 2016.
Professional and scholarly articles published in the last five years in	

subjects of teaching methodology and teaching quality (5 works at most)	
Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)	<ol> <li>Project: Building of Macro econometric Model of Croatian Economy, (code of the project: 055-0551147- 1146).</li> </ol>
	<ol> <li>Project Quality Assurance in Higher Education. UNESCO.</li> </ol>
The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences?-pedagoške kompetencije?	
PRIZES AND AWARDS, STUDENT	EVALUATION
Prizes and awards for teaching and scholarly/artistic work	
Results of student evaluation taken in the last five years for the course that is comparable to the course described in the form (evaluation organizer, average grade, note on grading scale and course evaluated)	

First and last name and title of	
teacher	Nina Sirković, Ph.D., Assistant Professor
The course he/she teaches in the	Communication Skills in English
proposed study programme	Mechanical Engineering, Industrial Engineering and Naval
	Architecture
GENERAL INFORMATION ON COU	RSE TEACHER
Address	Vukovarska 117, Split
Telephone number	+385 21 305 716
E-mail address	nina.sirkovic@fesb.hr
Personal web page	
Year of birth	1964
Scientist ID	297651
Research or art rank, and date of	Scientific Associate, 21 November 2012
last rank appointment	
Research-and-teaching, art-and-	Assistant Professor, 21 November 2012
teaching or teaching rank, and date	
of last rank appointment Area and field of election into	Humonition Dhilology
Area and field of election into research or art rank	Humanities, Philology
INFORMATION ON CURRENT EMP	
Institution where employed	Faculty of Electrical Engineering, Mechanical Engineering and
	Naval Architecture
Date of employment	1 June 2007
Name of position (professor,	Professor
researcher, associate teacher, etc.) Field of research	Dhilology
Function	Philology Head of General Course Department
INFORMATION ON EDUCATION – I	
Degree	PhD
Institution	Faculty of Philosophy, University of Zagreb
Place Date	Zagreb 7 December 2010
INFORMATION ON ADDITIONAL TR	RAINING
Year	
Place	
Institution	
Field of training	
	TONGUE AND FOREIGN LANGUAGES
Mother tongue	Croatian
Foreign language and command of	English (5)
foreign language on a scale from 2 (sufficient) to 5 (excellent)	
Foreign language and command of	German (5)
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Foreign language and command of	
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURS	E
Earlier experience as course	English Language 1 and English Language 2, Undergraduate
teacher of similar courses (name	study programme
title of course, study programme	Communication Skills in English, Undergraduate study
where it is/was offered, and level of	programme
study programme)	
Authorship of university/faculty	Kovač, Mirjana M.; Sirković, Nina (2014). Presentation, Writing

textbooks in the field of the course	and Interpersonal Communication Skills. Split, FESB.
	Kovač, Mirjana, MSirković, N.(2015) <i>Strategije rješavanja poteškoća u komunikaciji na stranom jeziku</i> . Hrvatska sveučilišna naklada, Zagreb
Professional, scholarly and artistic articles published in the last five years in the field of the course (5 works at most)	Kovač, Mirjana, Sirković, Nina, "Peer Evaluation of Oral Presentations in Croatia", in: <i>English Language teaching,</i> Canadian Center of Science and Education, Vol. 5, No. 7, Toronto, 2012. (8-16)
Professional and scholarly articles published in the last five years in subjects of teaching methodology and teaching quality (5 works at most)	Kovač, Mirjana Matea, Sirković Nina, Attitudes towards Communication Skills among Engineering Students, in: <i>English</i> <i>Language Teaching</i> , Canadian Center of Science and Education ,Vol.10, No. 3, Toronto, 2017.(111-117)
Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)	
The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences	University degree at the Faculty of Philology – pedagogical group
PRIZES AND AWARDS, STUDENT EVALUATION	
Prizes and awards for teaching and scholarly/artistic work	
Results of student evaluation taken in the last five years for the course that is comparable to the course described in the form (evaluation organizer, average grade, note on grading scale and course evaluated)	4,8

First and last name and title of	Ivan Slapničar, Ph.D., Full Professor
teacher	Wall Staphical, Fli.D., Full Floresson
The course he/she teaches in the	Mathematics 1, Mathematics 2
proposed study programme	
GENERAL INFORMATION ON COUL	RSE TEACHER
Address	FESB, R. Boškovića 32, B803
Telephone number	021 305893
E-mail address	ivan.slapnicar@fesb.hr
Personal web page	http://www.fesb.hr/~slap
Year of birth	1961
Scientist ID	30650
Research or art rank, and date of	scientific counselor
last rank appointment	
Research-and-teaching, art-and-	Full Professor, permanent position, since 2008
teaching or teaching rank, and date	
of last rank appointment Area and field of election into	Area od Natural Sajanaca, Field of Mathematica
research or art rank	Area od Natural Sciences, Field of Mathematics
INFORMATION ON CURRENT EMP	
Institution where employed	FESB, Split
Date of employment Name of position (professor,	1985 Full Professor
researcher, associate teacher, etc.)	
Field of research	Mathematics
Function	Head of the Chair of Mathematics
INFORMATION ON EDUCATION - H	
Degree	dr. sc. (dr. rer. Nat.)
Institution	Fernuniversität Hagen
Place	Hagen, Germany
Date	October 1992
INFORMATION ON ADDITIONAL TR	AINING
Year	2014
Place	Cambridge, MA, USA
Institution	Massachusetts Institute of Technology
Field of training	Fulbright-Schuman International Educator/Lecturer Grant
Year	2009/2010
Place	Berlin, Germany
Institution	Technische Universität Berlin
Field of training	FP7 People "Marie Curie" Intra European Fellowship
Year	2001/2002
Place	Logan, UT, SAD
Institution	Utah State University
Field of training	Visiting Professor of Mathematics
MOTHER TONGUE AND FOREIGN	
Mother tongue	Croatian
Foreign language and command of	English (5)
foreign language on a scale from 2 (sufficient) to 5 (excellent)	
Foreign language and command of	German (5)
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Foreign language and command of	
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	

COMPETENCES FOR THE COURSE	
Earlier experience as course teacher of similar courses (name title of course, study programme where it is/was offered, and level of study programme)	Lecturer of various courses since 1992.
Authorship of university/faculty textbooks in the field of the course	Ivan Slapničar, Matematika 1, FESB, Split, 2002. (Manualia Universitatis studiorum Spalatensis) Ivan Slapničar, Josipa Barić i Marina Ninčević, Matematika 2 – zbirka zadataka, FESB, Split, 2010. (Manualia Universitatis studiorum Spalatensis)
Professional, scholarly and artistic articles published in the last five years in the field of the course (5 works at most)	<ol> <li>Jakovčević Stor, Nevena; Slapničar, Ivan; Barlow, Jesse L.</li> <li>Forward stable eigenvalue decomposition of rank-one modifications of diagonal matrices, Linear Algebra and its Applications. 487 (2015) 301-315.</li> <li>Jakovčević Stor, Nevena; Slapničar, Ivan.</li> <li>Forward Stable Computation of Roots of Real Polynomials with Real Simple Roots, Applied Mathematics and Information Sciences. 11 (2017) 33-41.</li> <li>Jakovčević Stor, Nevena; Slapničar, Ivan; Barlow, Jesse L.</li> <li>Accurate eigenvalue decomposition of real symmetric arrowhead matrices and applications, Linear algebra and its applications. 464 (2015) 62-89.</li> <li>Slapničar, Ivan. Symmetric matrix eigenvalue techniques, Handbook of Linear Algebra, Hogben, Leslie (ed.). Chapman &amp; Hall / CRC, Boca Raton, 2013, pp. 55-1-55-23.</li> <li>Slapničar, Ivan. On the spectra of generalized Fibonacci and Fibonacci-like operators., Operators and Matrices. 6 (2012) 49-62.</li> </ol>
Professional and scholarly articles published in the last five years in subjects of teaching methodology and teaching quality (5 works at most)	
Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)	<ol> <li>Accurate and fast matriox algorithms and applications, project MZOS No. 372783-1289, 2007- 2013, principal investigator.</li> <li>Optimization of parameter dependent mechanical systems, HRZZ research project No. 9540, 2015-2019, collaborator.</li> </ol>
The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences?-pedagoške kompetencije?	
PRIZES AND AWARDS, STUDENT EVALUATION	
Prizes and awards for teaching and scholarly/artistic work	Prize of the Fernunivesität Hagenu for the best disseration, 1992. Prize of the Croatian Mathematical Society Nagrada for the young scientist, 1996.
Results of student evaluation taken in the last five years for the course that is comparable to the course described in the form (evaluation organizer, average grade, note on grading scale and course evaluated)	Evaluations organized by the Quality Enhancement Centre of the University of Split each semester. Average grade is 4.5 on the 1-5 scale.

First and last name and title of	Vladimir Šimić
teacher The course he/she teaches in the	Principles of economics
proposed study programme	
GENERAL INFORMATION ON COU	
Address	Cvite Fiskovića 5
Telephone number	021430682
E-mail address	vsimic@efst.hr
Personal web page	-
Year of birth	1978.
Scientist ID	274335
Research or art rank, and date of last rank appointment	
Research-and-teaching, art-and-	Assistant professor, 26.3.2013.
teaching or teaching rank, and date	
of last rank appointment	
Area and field of election into	Social sciences, economics
research or art rank	
INFORMATION ON CURRENT EMP	LOYMENT
Institution where employed	Faculty of Economics Split
Date of employment	1.10.2001.
Name of position (professor,	Assistant professor
researcher, associate teacher, etc.)	
Field of research	Macroeconomics, monetary economics, globalisation
Function	Co-holder of the course
INFORMATION ON EDUCATION - H	Highest degree earned
Degree	PhD in economics
Institution	Staffordshire University
Place	Stoke-on-Trent, United Kingdom
Date	October, 2008.
INFORMATION ON ADDITIONAL TR	RAINING
Year	2005.
Place	Zagreb
Institution	Hrvatska narodna banka
Field of training	Conduct of monetary policy
MOTHER TONGUE AND FOREIGN	LANGUAGES
Mother tongue	Croatian
Foreign language and command of	English, 5
foreign language on a scale from 2 (sufficient) to 5 (excellent)	
Foreign language and command of	German, 3
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Foreign language and command of	Italian, 2
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
(sufficient) to 5 (excellent) COMPETENCES FOR THE COURS	E
(sufficient) to 5 (excellent) COMPETENCES FOR THE COURS Earlier experience as course	E
(sufficient) to 5 (excellent) COMPETENCES FOR THE COURS Earlier experience as course teacher of similar courses (name	E
(sufficient) to 5 (excellent) COMPETENCES FOR THE COURS Earlier experience as course teacher of similar courses (name title of course, study programme	E
(sufficient) to 5 (excellent) COMPETENCES FOR THE COURS Earlier experience as course teacher of similar courses (name title of course, study programme where it is/was offered, and level of	E
(sufficient) to 5 (excellent) COMPETENCES FOR THE COURS Earlier experience as course teacher of similar courses (name title of course, study programme where it is/was offered, and level of study programme)	
(sufficient) to 5 (excellent) COMPETENCES FOR THE COURS Earlier experience as course teacher of similar courses (name title of course, study programme where it is/was offered, and level of study programme) Authorship of university/faculty	Reić, Z., Mihaljević Kosor, M., Šimić, V. "Ekonomija",
(sufficient) to 5 (excellent) COMPETENCES FOR THE COURS Earlier experience as course teacher of similar courses (name title of course, study programme where it is/was offered, and level of study programme)	

articles published in the last five	analysis of monetary policy effects on prices. Finance a úvěr :
years in the field of the course (5	Czech Journal of economics and finance. 65 (2015) , 5; 377-390
works at most)	<i>.</i>
	Ćorić, B.; Malešević Perović, L. and Šimić, V (2016) : <u>Openness and</u>
	the Strength of Monetary Transmission: International Evidence. Acta
	Economica 66(4); 639-659
	Malažavić Daravić I. Čimić V. and Mužtra V. (2012)
	Malešević-Perović, L., Šimić, V. and Muštra, V. (2013), Investigating the Influence of Economic and Socio-Political
	Openness on Growth, International Journal of Economic
	Sciences and Applied Research, Vol. 6, pp. 35-59
	Šimić, V. and Malešević-Perović, L. (2012), Monetary Policy
	Transmission in the Balkans in the 21 <sup>st</sup> Century: Empirical
	Evidence, Journal of Economic and Social Studies, Vol. 2(2),
	pp. 9-40. ISSN: 1986-8499;
	Šimić, V. and Muštra, V. (2012), Debts (Public and External)
	and Growth – Link or No Link?, Croatian Operational Research
Drefessional and ashalarly articles	<i>Review</i> , Vol. 3, pp. 91-102, ISSN: 1848-0225;
Professional and scholarly articles	
published in the last five years in subjects of teaching methodology	
and teaching quality (5 works at	
most)	
Professional, science and artistic	Croatian Scientific Foundation: Project: Effects of Economic
projects in the field of the course	Disasters
carried out in the last five years (5	
at most)	
The name of the programme and	Razvoj i usavršavanje pedagoških kompetencija sveučilišnih
the volume in which the main	nastavnika, Split, November 2014.
teacher passed exams in/acquired	
the methodological-psychological-	
didactic-pedagogical group of	
competences.	
PRIZES AND AWARDS, STUDENT	
Prizes and awards for teaching and	Award for valuable scientific article, Faculty of Ecoonomics
scholarly/artistic work	Split, December 2015.
	Award for valuable scientific article, Faculty of Ecoonomics
	Split, December 2016.
Results of student evaluation taken	4,7
in the last five years for the course	
that is comparable to the course	
described in the form (evaluation	
organizer, average grade, note on	
grading scale and course	
evaluated)	

First and last name and title of	lvica Veža, Ph. D., Full Professor
teacher The course he/she teaches in the	
	Business Systems Organisation
proposed study programme	
GENERAL INFORMATION ON COU	
Address	Odeska 13, 21000 Split, HR
Telephone number	+385 21 305933
E-mail address	<u>iveza@fesb.hr</u>
Personal web page	4054
Year of birth	1951.
Scientist ID	095643 Scientific Advisor Machanical Engineering 00.02.2004
Research or art rank, and date of	Scientific Adviser - Mechanical Engineering, 08.03.2001. Scientific Adviser – Fundamental Technical Science
last rank appointment	05.07.2006.
Research-and-teaching, art-and-	05.07.2006.
teaching or teaching rank, and date	Senior Full Professor, 23.01.1998.
of last rank appointment	Senior i di i folessol, 25.01.1930.
Area and field of election into	
research or art rank	Technical Sciences, Field Industrial engineering
INFORMATION ON CURRENT EMP	
	Faculty of Electrical Engineering, Mechanical Engineering and
Institution where employed	Naval Architecture
Date of employment	1/1/1981
Name of position (professor,	Professor
researcher, associate teacher, etc.)	FIDIESSO
Field of research	Plant Layout, Organization, Production Engineering
Function	Head of Chair of Inudstrial Engineering
INFORMATION ON EDUCATION - H	
Degree Institution	PhD Faculty of Mechanical Engineering and Naval Architecture
Place	Zagreb
Date	9/11/2001
INFORMATION ON ADDITIONAL TR	
Year	1983/84
Place	Stuttgart, Germany
Institution	University of Stuttgart, Fraunhofer – Institut fuer
Field of training	Produktiontechnik und Automatisierung Plant Layout, Simulation
Field of training	
INFORMATION ON ADDITIONAL TR	
Year	1991
Place	Berlin, Germany
Institution	Technical University of Berlin, Fraunhofer IPK
Field of training	Design of Assembly Systems
MOTHER TONGUE AND FOREIGN	
Mother tongue	Croatian
Foreign language and command of	English (4)
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Foreign language and command of	Germany (4)
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	

(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURSE	
Earlier experience as course teacher of similar courses (name title of course, study programme where it is/was offered, and level of study programme) Authorship of university/faculty	Economics and Production Organisation, Undergraduate study programme, Dulčić, Želimir; Pavić, Ivan; Rovan, Mario; Veža, Ivica:
textbooks in the field of the course	Proizvodni management, Ekonomski fakultet, FESB Split, Split, 1996.
Professional, scholarly and artistic articles published in the last five years in the field of the course (5 works at most)	<ol> <li>Perić, Tunjo; Babić, Zoran; Veža, Ivica: Vendor selection and supply quantities determination in a bakery by AHP and fuzzy multi-criteria programming. International journal of computer integrated manufacturing. 26 (2013), 9; 816-829</li> <li>Veža, Ivica; Mladineo, Marko: SUSTAINABILITY THROUGH PRODUCTION NETWORKS. Management and Production Engineering Review. 4 (2013), 4; 33-39</li> <li>Gjeldum, Nikola; Bilić, Boženko; Veža, Ivica. Investigation and modelling of process parameters and workpiece dimensions influence on material removal rate in CWEDT process. International journal of computer integrated manufacturing. 28 (2015), 7; 715-728</li> <li>Takakuwa, Soemon; Veža, Ivica: Technology Transfer and World Competitiveness. Procedia Engineering. 69 (2014); 121-127</li> <li>Banduka, Nikola; Veža, Ivica; Bilić, Boženko: An integrated lean approach to Process Failure Mode and Effect Analysis (PFMEA): A case study from automotive industry. Advances in Production Engineering &amp; Management. 11 (2016), 4; 355-365</li> </ol>
Professional and scholarly articles published in the last five years in subjects of teaching methodology and teaching quality (5 works at most)	<ol> <li>Gečevska, Valentina; Čuš, Franci; Chiabert, Paolo; Veža, Ivica: LINKING LEAN PRODUCTION WITH PRODUCT LIFECYCLE MANAGEMENT FOR SUSTAINABLE BUSINESS ENVIRONMENT, DEVELOPMENT OF INTELLIGENT AND INNOVATIVE TOOLS FOR PRODUCTION PROCESS ENGINEERING AND SUSTAINABLE MANAGEMENT, Čuš, F.; Gečevska, V. (Ed.). Maribor, Slovenija: Faculty of Mechanical engineering, Maribor, 2013. 19-39.</li> <li>Čelar, Stipe; Turić, Mili; Dragičević, Srdjana; Veža, Ivica. Digital Learning Factory at FESB – University of Split , ZBORNIK RADOVA YU INFO 2016, 2016. 001-006</li> <li>Veža, Ivica; Gjeldum, Nikola; Mladineo, Marko: Logistics Personal Excellence by Continuous Self-Assessment (LOPEC): Pilot Implementation - Case Studies. Conference Proceedings - MTSM 2014, Split, 2014. 39-46</li> <li>Stojkić, Željko; Veža, Ivica; Bošnjak, Igor. CONCEPT OF INFORMATION SYSTEM IMPLEMENTATION (CRM AND ERP) WITHIN INDUSTRY 4.0, Proceedings of the 26th DAAAM International Symposium, Beč : DAAAM International, 2016. 912-919</li> </ol>
Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)	<ol> <li>2008 – 2013 Project TEMPUS-2008-IT-JPCR 144 959, Master Study Program in Product Lifecycle Management with Sustainable Production</li> <li>2011-2014 LEONARDO DA VINCI Project "LOPEC - Logistics personnel excellence by continuous self- assessment", FESB Split, University of Reutlingen</li> <li>2013-2016 Network of Innovative Learning Factories NIL,</li> </ol>

The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences?-pedagoške kompetencije?	<ul> <li>"System - Learning Factory", FESB, Split, University of Reutlingen</li> <li>2013-2016 Know-how Exchange on the Consequences and Challenges of the Integration of Key Enabling Technologies in European Manufacturing for the Danube Region, Fraunhofer Institute for Systems and Innovation Research ISI – Karlsruhe</li> <li>2014-2018 Innovative Smart Enterprise, INSENT, Croatian Science Foundation, Zagreb</li> </ul>
PRIZES AND AWARDS, STUDENT	EVALUATION
Prizes and awards for teaching and scholarly/artistic work	
Results of student evaluation taken in the last five years for the course that is comparable to the course described in the form (evaluation organizer, average grade, note on grading scale and course evaluated)	4,8/5

First and last name and title of	Josip Visković, PhD
teacher	
The course he/she teaches in the	Finance
proposed study programme	
GENERAL INFORMATION ON COU	RSE TEACHER
Address	Doverska 31, 21000 Split
Telephone number	091/4430-751
E-mail address	jviskovi@efst.hr
Personal web page	
Year of birth	1983
Scientist ID	293632
Research or art rank, and date of	-
last rank appointment Research-and-teaching, art-and-	Appintent professor: Echryony 04th 2014
teaching or teaching rank, and date	Assistant professor; February 04 <sup>th</sup> , 2014
of last rank appointment	
Area and field of election into	-
research or art rank	
INFORMATION ON CURRENT EMP	LOYMENT
Institution where employed	Faculty of Economics, University of Split
Date of employment	November 02, 2006
Name of position (professor,	Assistant professor
researcher, associate teacher, etc.)	•
Field of research	Finance
Function	
INFORMATION ON EDUCATION - H	lighest degree earned
Degree	PhD
Institution	Faculty of Economics, University of Split
Place	Split
Date	July 13 <sup>th</sup> , 2012
INFORMATION ON ADDITIONAL TR	AINING
Year	2007/2008
Place	Prague, Czech Republic
Institution	CERGE-EI (Center for Economic Research and Graduate
Field of training	Education – Economics Institute)
Field of training	Economics
MOTHER TONGUE AND FOREIGN	
Mother tongue	Croatian
Foreign language and command of	English, 5
foreign language on a scale from 2 (sufficient) to 5 (excellent)	
Foreign language and command of	German, 3
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Foreign language and command of	Italian, 2
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURS	
Earlier experience as course	Currently teaching at courses:
teacher of similar courses (name	<ul> <li>International finance I (degree programme;</li> </ul>
title of course, study programme	undergraduate programme);
where it is/was offered, and level of	<ul> <li>International finance II (degree programme; graduate programme);</li> </ul>
study programme)	programme); <ul> <li>International business finance (professional</li> </ul>
	programme; specialist professional graduate
	programme, opesiallet profosolonial graduate

	<ul> <li>programme);</li> <li>International financial management (degree programme; graduate programme);</li> <li>Monetary economics I (degree programme; undergraduate programme);</li> <li>Monetary analysis (degree programme; undergraduate programme);</li> <li>European monetary system (degree programme; graduate programme);</li> <li>European monetary system (degree programme; graduate programme);</li> <li>Previously teaching at courses: <ul> <li>Basics of Finance (degree programme; undergraduate programme);</li> <li>Public finance I (degree programme; undergraduate programme);</li> <li>Public finance II (degree programme; graduate programme);</li> </ul> </li> </ul>
Authorship of university/faculty textbooks in the field of the course Professional, scholarly and artistic articles published in the last five years in the field of the course (5 works at most)	<ul> <li>-</li> <li>1. Visković, J. i Udovičić, M.: Awareness of SMEs on the EU Funds Financing Possibilities: The Case of Split-Dalmatia County, The Economies of Balkan and Eastern Europe Countries in the Changed World (EBEEC) 2016./Knepublishing, KnE Social Sciences, Volume 2017., p. 319-332,</li> <li>2. Visković, J., Miletić, M. i Pavlović, M.: UPRAVLJANJE VALUTNIM RIZIKOM PODUZEĆA IZVOZNIKA SPLITSKO- DALMATINSKE ŽUPANIJE, Conference Proceedings LIMEN 2015, Beograd 2015, ISBN: 978-86-80194-02-8, p. 71 80.</li> <li>3. Visković, J. i Kalinić, H. Relevantnost virtualnih valuta za nositelje monetarne politike: studija slučaja bitcoin; Financije nakon krize Forenzika etika i održivost, 978-953-281-061-5, Sveučilište u Splitu Ekonomski fakultet, Split, 2014., str. 279 300.</li> <li>4. Visković, J.: Determinants of sovereign credit rating and credit rating agencies faults, Sarajevo Business and Economics Review, Volume 33., ISSN 1968-5473, Ekonomski fakultet u Sarajevu, Sarajevo, 2013.</li> <li>5. Pečarić, M. i Visković, J.: The effects of prudential policy measures on financial stability in post-transition countries, Proceedings of Rijeka Faculty of Economics: Journal of Economics and Business, Vol. 31. No. 1. lipanj 2013., ISSN 1331-8004 p. 934.</li> </ul>
Professional and scholarly articles published in the last five years in subjects of teaching methodology and teaching quality (5 works at most)	-
Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)	"Development strategy of Seget municipality" (2016/2017) "Development strategy of Tkon municipality" (2016/2017) "Development strategy of Split urban agglomeration" (2015/2016) "Development Bank - Effects on the Economy" for Croatian Bank for Reconstruction and Development, 2014 Associate on scientific project "Financial policy and financial- economic framework of support for small and medium enterprises", project of Ministry of Science Education and Sport, director: Ljiljana Vidučić (2008-2013)

The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences.	Development and training of pedagogical competences of university teachers, Faculty of Philosophy, University of Split, 2014.
PRIZES AND AWARDS, STUDENT	EVALUATION
Prizes and awards for teaching and scholarly/artistic work	-
Results of student evaluation taken in the last five years for the course that is comparable to the course described in the form (evaluation organizer, average grade, note on grading scale and course evaluated)	Centre for quality improvement, University of Split; average grades (global index): 2012/13 - 4,3 (BF), 4,1 (PF I), 4 (PF II), 3,2 (IBF); 4,5 (MA), 4,5 (IF I), 4,2 (IF II), 3,6 (EMS), 4 (FIN) 2013/14 - 4,3 (BF), 4,3 (PF I), 4,2 (PF II), 3,2 (IBF); 4,2 (MA), 4,3 (IF I), 3,5 (IF II), 4,3 (FIN) 2014/15 - 4,5 (BF), 4,7 (PF I), 4,1 (PF II), 3,2 (IBF); 4,7 (MA), 4,8 (IF I), 4,7 (IF II), 4,5 (ME I) 2015/16 - 4,9 (IF I), 5,0 (IF II), 5,0 (ME I) 2016/17 - 5,0 (MA), 4,7 (IBF); 4,8 (IFM) Note: grades are on scale from 1 to 5, where 5 is the best possible grade and 1 is the lowest possible grade; BF – Basics of finance; IF I – International finance I; IF II – International finance II; MA – Monetary analysis, ME I – Monetary economics I, PF I – Public finance I, PF II – Public finance II, IBF – International business finance, IFM – International financial management; EMS – European monetary system,; FIN - Finance

First and last name and title of		
teacher	Frane Vlak, Ph. D., Associate Professor	
The course he/she teaches in the proposed study programme	Mechanics 1	
GENERAL INFORMATION ON COURSE TEACHER		
Address	Ruđera Boškovića 32	
Telephone number	021305971	
E-mail address	fvlak@fesb.hr	
Personal web page		
Year of birth	1968.	
Scientist ID	233385	
Research or art rank, and date of last rank appointment	Scientific Adviser, 11/11/2015	
Research-and-teaching, art-and- teaching or teaching rank, and date of last rank appointment	Associate Professor, 29/9/2011	
Area and field of election into research or art rank	Technical Sciences, Field Electrical engineering	
INFORMATION ON CURRENT EMP	LOYMENT	
Institution where employed	Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture	
Date of employment	6/6/1995	
Name of position (professor,	Professor	
researcher, associate teacher, etc.)		
Field of research	Mechanics of deformable solids	
Function	Head of Chair of Mechanics	
INFORMATION ON EDUCATION - H	lighest degree earned	
Degree	PhD	
Institution	Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture	
Place	Split	
Date	13/1/2006	
INFORMATION ON ADDITIONAL TR	RAINING	
Year		
Place		
Institution		
Field of training		
MOTHER TONGUE AND FOREIGN	LANGUAGES	
Mother tongue	Croatian	
Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)	English (4)	
Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)	Italian (2)	
Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)		
COMPETENCES FOR THE COURS	E	
Earlier experience as course teacher of similar courses (name title of course, study programme where it is/was offered, and level of study programme)	Technical mechanics 1, Mechanics of materials: Professional studies of mechanical engineering and naval architecture, Undergraduate study programme Mechanics of materials: University studies of mechanical engineering, naval architecture and industrial engineering, Undergraduate study programme	

Authorship of university/faculty textbooks in the field of the course Professional, scholarly and artistic articles published in the last five years in the field of the course (5	1. Barle, Jani; Grubišić, Vatroslav; Vlak, Frane. Failure
Professional, scholarly and artistic articles published in the last five	1 Barle Jani Grubišić Vatroslav Vlak Frane Failure
works at most)	<ol> <li>built, orabiti, viabola, valouav, viak, ritality analysis of the highway sign structure and the design improvement. // Engineering failure analysis. 18 (2011), 3; 1076-1084 (članak, znanstveni).</li> <li>Vlak, Frane; Cvitanić, Vedrana; Vučina, Damir. An approach for reduction of the volume loss in the rigid-plastic FEM using two-step updating procedure. // International journal of mechanical sciences. 53 (2011), 10; 839-845 (članak, znanstveni).</li> <li>Pavazza, Radoslav; Vlak, Frane; Vukasović, Marko. Bending and torsion of stiffeners with L sections under the plate normal pressure // Advanced Ship Design for Pollution Prevention / Soares, Guedes C. ; Parunov, Joško (ur.). London : CRC Press/Balkema, Taylor &amp; Francis Group, 2010. Str. 121-127.</li> <li>Vlak, Frane; Pavazza, Radoslav; Vukasović, Marko. An approximate analytic solution for the stresses and displacements of thin-walled orthotropic beams subjected to bending // 16th European Conference on Composite Materials ECCM16-Conference Proceedings-Seville, Spain: University of Seville, Spain, 2014. / Paris, Federico (ur.). Seville : University of Seville, 2014. 1-8 (predavanje,međunarodna recenzija,objavljeni rad,znanstveni).</li> <li>Pavazza, Radoslav; Matoković, Ado; Vlak, Frane. An analytical solution for displacements and stresses for mono symmetrical stiffend plate structures under transverse loads // Knjiga sažetaka XX. simpozija Teorija i praksa brodogradnje in memoriam prof. Leopolod Sorta / Žiha, Kalman (ur.). Zagreb : Fakultet strojarstva i brodogradnje, Brodarski institut d.o.o., 2012. 76-76 (predavanje,međunarodna recenzija,objavljeni rad,znanstveni).</li> </ol>
projects in the field of the course carried out in the last five years (5 at most) The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of	9. ME4CataLOgoue (Mechanical Engineering for Catalogue) Croatian Catalogue of knowledge, skills and competences for Mechanical Engineering studies (Bachelor, Master and Doctoral study programmes) based on learning outcomes
competences?-pedagoške kompetencije?	
PRIZES AND AWARDS, STUDENT E	VALUATION
Prizes and awards for teaching and scholarly/artistic work	
Results of student evaluation taken in the last five years for the course that is comparable to the course described in the form (evaluation	

organizer, average grade, note on	
grading scale and course	
evaluated)	

First and last name and title of	
teacher	Damir Vučina, Ph. D., Full Professor
The course he/she teaches in the	Computer aided analysis
proposed study programme	Introduction to information systems
GENERAL INFORMATION ON COU	RSE TEACHER
Address	FESB, R. Boškovića 32, 21000 Split
Telephone number	021 305 969
E-mail address	vucina@fesb.hr
Personal web page	
Year of birth	1962
Scientist ID	129716
Research or art rank, and date of last rank appointment	Scientific Adviser, 2005
Research-and-teaching, art-and- teaching or teaching rank, and date of last rank appointment	Senior Full Professor, 2005
Area and field of election into research or art rank	Technical Sciences, Fundamental Technical Sciences
INFORMATION ON CURRENT EMP	LOYMENT
Institution where employed	Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture
Date of employment	1985
Name of position (professor, researcher, associate teacher, etc.)	Professor
Field of research	Numerical methods in engineering and optimization
Function	Head of group for modeling and computer-aided analysis
INFORMATION ON EDUCATION - H	
Degree	PhD
Institution	Fakultet strojarstva i brodogradnje
Place	Zagreb
Date	1993
INFORMATION ON ADDITIONAL TR	AINING
Year	Fulbright grant, Columbia University New York Several courses at CISM Italy
Place	
Institution	
Field of training	
MOTHER TONGUE AND FOREIGN	LANGUAGES
Mother tongue	Croatian
Foreign language and command of	English (5)
foreign language on a scale from 2 (sufficient) to 5 (excellent)	/
Foreign language and command of	German (5)
foreign language on a scale from 2 (sufficient) to 5 (excellent)	
Foreign language and command of foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURS	
Earlier experience as course	Computer aided analysis
teacher of similar courses (name	Optimization methods
title of course, study programme	Programming
where it is/was offered, and level of study programme)	Graduate courses

Authorship of university/faculty textbooks in the field of the course	D. Vučina, 'Metode inženjerske numeričke optimizacije', Sveučilište u Splitu, FESB 2005 Damir Vučina, 'Primjena računala u inženjerskoj analizi', FESB, 2007
Professional, scholarly and artistic articles published in the last five years in the field of the course (5 works at most)	<ul> <li>p1. Ćurković, M.; Vučina, D. 3D Shape acquisition and integral compact representation using optical scanning and enhanced shape parameterization. Advanced engineering informatics. 28 (2014), 2; 111-126, IF 2.086.</li> <li>p2. Vučina, D.; Ćurković, M.; Novković, T. CLASSIFICATION OF 3D SHAPE DEVIATION USING FEATURE RECOGNITION OPERATING ON PARAMETERIZATION CONTROL POINTS. // Computers in industry. 65 (2014), 6; 1018-1031. IF 1.457.</li> <li>p3. Milas, Zoran; Vučina, Damir; Marinić-Kragić, Ivo. MULTI-REGIME SHAPE OPTIMIZATION OF FAN VANES FOR ENERGY CONVERSION EFFICIENCY USING CFD, 3D OPTICAL SCANNING AND PARAMETERIZATION. // Engineering Applications of Computational Fluid Mechanics. 8 (2014), 3; 407-421. IF 0.921.</li> <li>p6. Vučina, D.; Lozina, Ž.; Pehnec, I. Ad-Hoc Cluster and Workflow for Parallel Implementation of Initial-Stage Evolutionary Optimum Design. Structural and multidisciplinary optimization. 45 (2012), 2; 197-222. IF 1.488.</li> <li>p5. Vučina, D.; Lozina, Ž.; Pehnec, I. Computational procedure for optimum shape design based on chained Bezier surfaces parameterization. Engineering applications of artificial intelligence. 25 (2012), 3; 648-667. IF 1.665.</li> </ul>
Professional and scholarly articles published in the last five years in subjects of teaching methodology and teaching quality (5 works at most)	s.a.
Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)	s.a
The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences?-pedagoške kompetencije?	continuously
PRIZES AND AWARDS, STUDENT	
Prizes and awards for teaching and scholarly/artistic work	<ol> <li>Columbia University, New York, USA, 1986- 1987, dobitnik US Fulbright stipendije</li> <li>Sveučilište u Splitu, za tehničke znanosti, 2014</li> </ol>
Results of student evaluation taken in the last five years for the course that is comparable to the course described in the form (evaluation organizer, average grade, note on grading scale and course evaluated)	excellent

First and last name and title of	
teacher	Dražen Živković, Ph.D. Full Professor
The course he/she teaches in the	
proposed study programme	Materials 1, Materials 2, Technology 1,
GENERAL INFORMATION ON COU	RSE TEACHER
Address	Rovinjska 4, 21000 Split, Republic of Croatia
Telephone number	+385 21 305910
E-mail address	Drazen.Zivkovic@fesb.hr
Personal web page	
Year of birth	1957.
Scientist ID	044701
Research or art rank, and date of last rank appointment	Scientific Adviser, 21/01/2009.
Research-and-teaching, art-and- teaching or teaching rank, and date of last rank appointment	Senior Full Professor, 05/06/2014
Area and field of election into research or art rank	Technical Sciences, Field: Mechanical engineering
INFORMATION ON CURRENT EMP	LOYMENT
Institution where employed	Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture
Date of employment	13/09/1983.
Name of position (professor,	Professor
researcher, associate teacher, etc.)	
Field of research	
Function	Head of Mechanical Engineering Technology Department
INFORMATION ON EDUCATION - H	lighest degree earned
Degree	PhD
Institution	Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture
Place	Split
Date	04/09/1999.
INFORMATION ON ADDITIONAL TR	RAINING
Year	/
Place	1
Institution	1
Field of training	/
MOTHER TONGUE AND FOREIGN	LANGUAGES
Mother tongue	Croatian
Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)	English (4)
Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)	Italian (4)
Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)	German (2)
COMPETENCES FOR THE COURS	E
Earlier experience as course	Materials, , Basic of Tribology (530)
teacher of similar courses (name title of course, study programme where it is/was offered, and level of study programme)	Materials 1, Materials 2, Technology 1, Tribology, (130, 140, 150) Heat treatment and surface protection (263)
	1

Authorship of university/faculty	Dražen, Živković: Lijevanje, ISBN 978-953-6114-91-7
	Diazen, zivkovic. Lijevanje, 13014 370-333-0114-31-1
textbooks in the field of the course Professional, scholarly and artistic articles published in the last five years in the field of the course (5 works at most)	<ol> <li>Živković, Dražen; Gabrić, Igor; Šitić, Slaven. <u>Popravak zavarivanjem konstrukcija iz titanovih legura</u>. // Strojarstvo. 53 (2011) , 4; 319-326</li> <li>Živković, Dražen; Gabrić, Igor; Šitić, Slaven. <u>Utjecaj niskog i visokog popuštanja na tvrdoću čelika EN</u> <u>42CRM04</u>. // Tehnički glasnik. 6 (2012)</li> <li>Živković, Dražen; Gabrić, Igor; Šitić, Slaven. <u>Analiza utjecaja parametara toplinske obrade na tvrdoću</u> <u>čelika EN 42CrMo4</u> // MATRIB 2012 materials/tribology/recycling : zbornik radova = conference proceedings / Željko Alar, Suzana Jakovljević (ur.). Zagreb : Hrvatsko društvo za materijale i tribologiju, 2012. 379-386</li> <li>Živković, Dražen; Gabrić, Igor; Šitić, Slaven. <u>Utjecaj toplinske obrade na dinamičku izdržljivost čelika EN</u> <u>42CrMo4</u> // International conference Heat Treatment and Surface Engineering - European Opportunities for Croatian Economy : proceedings book = Međunarodno savjetovanje Toplinska obrada i inženjerstvo površina - europske mogućnosti hrvatskog gospodarstva : zbornik radova / Smojan, Božo ; Iljkić, Dario (ur.). Rijeka : Hrvatsko društvo za toplinsku obradu i inženjerstvo površina, 2012. 67-74</li> <li>Ljumović, Petar; Živković, Dražen; Dadić, Zvonimir; Gabrić, Igor. <u>IZBOR MATERIJALA KALUPA ZA VISOKOTLAČNO</u> <u>LIJEVANJE</u> // MATRIB 2014, materials, tribology, recycling / Šolić, Sanja ; Šnajder Musa, Matea (ur.). Zagreb : Hrvatsko društvo za materijale i tribologiju, 2014.</li> </ol>
Professional and scholarly articles published in the last five years in subjects of teaching methodology and teaching quality (5 works at most)	307-317
Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)	Projekt: "Računalno optimiranje parametara termalnih procesa obrade metala", voditelj prof.dr.sc. Božo Smoljan
The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences?-pedagoške kompetencije?	1
PRIZES AND AWARDS, STUDENT I	EVALUATION
Prizes and awards for teaching and	/
scholarly/artistic work Results of student evaluation taken in the last five years for the course that is comparable to the course described in the form (evaluation organizer, average grade, note on grading scale and course evaluated)	4,8/5

## 3.4. Optimal number of students

The admission quote for the first year of studies is 50.

## 3.5. Estimate of costs per student

Annual costs of studies per student amount to HRK 25,000.00.

## 3.6. Plan of procedures of study programme quality assurance

In keeping with the European standards and guidelines for internal quality assurance in higher education institutions (according to "Standards and Guidelines of Quality Assurance in the European Higher Education Area") on the basis of which the University of Split defines procedures for quality assurance, the proposer of the study programme is obliged to draw up a plan of procedures of study programme quality assurance.

Documentation on which the quality assurance system of the constituent part of the University is based:

- Regulations on the quality enhancement system of FESB
- Quality Assurance Handbook of the constituent part

## Description of procedures for evaluation of the quality of study programme implementation:

- For each procedure the method needs to be described (most often questionnaires for students or teachers, and self-evaluation questionnaire), name the body conducting evaluation (constituent part, university office), method of processing results and making information available, and timeframe for carrying out evaluation
- If procedure is described in an attached document, name the document and the article.

Evaluation of the work of teachers and part-time teachers	<ul> <li>Student evaluation of quality of instruction and teaching activities conducted through student survey (printed questionnaires)</li> <li>Survey is organised and conducted by the Quality Enhancement Committee of the Faculty (Committee)</li> <li>Survey results are processed automatically at the University</li> <li>Survey is conducted each semester</li> <li>The Committee presents cumulative results of the survey at the sessions of the Faculty Council. The report is published at the Faculty web site.</li> <li>All procedures are conducted in accordance with the Regulations on organisation and role of the quality assurance system of the University of Split, Regulations on procedure of student evaluation of the quality of teachers and teaching of the University of Split and Regulations on the quality enhancement system of FESB.</li> </ul>
Monitoring of grading and harmonization of grading with anticipated learning outcomes	Committee for study programmes in Mechanical Engineering, Naval Architecture and Industrial Engineering is monitoring the harmonisation of grading and learning outcomes.

	All the procedures are conducted in accordance with the Rules of procedure of the Faculty Council and the Rules of procedure of the Department, since the Committees for study programmes are bodies of the Faculty Council and are accountable to the Faculty Council.
Evaluation of availability of resources (spatial, human, IT) in the process of learning and instruction	<ul> <li>Student evaluation of work performance of administrative and supporting services, learning infrastructure and student life is conducted through e-survey</li> <li>Evaluation is conducted using an on-line questionnaire which the students complete in each year of study, except the final year</li> <li>Survey is organised by the Quality Enhancement Centre of the University of Split, and is implemented by the Quality Enhancement Committee)</li> <li>Survey results are processed automatically at the University</li> <li>Survey results are presented at the Faculty Council sessions and published at the Faculty web site.</li> </ul>
Availability and evaluation of student support (mentorship, tutorship, advising)	<ul> <li>Administrative and supporting services are available to students to provide support in their study activities</li> <li>Supervisors/ mentors are appointed for students' final papers and diploma thesis</li> </ul>
Monitoring of student pass/fail rate by course and study programme as a whole	<ul> <li>Analysis of student pass rate by courses and study programmes is carried out once a year</li> <li>Analysis of pass rate by study programmes is carried out by the University in cooperation with the Committee</li> <li>Analysis by courses and study programmes is carried out by the Faculty Management Board</li> <li>Results of both analyses are presented at the Faculty Council sessions and published at the Faculty web site.</li> </ul>
Student satisfaction with the programme as a whole	<ul> <li>Student evaluation of work performance of administrative and supporting services, learning infrastructure and student life is conducted through e-survey</li> <li>Evaluation is conducted using an on-line questionnaire which the students complete following the completion of studies</li> <li>Survey is organised by the Quality Enhancement Centre of the University of Split, and is implemented by the Quality Enhancement Committee)</li> <li>Survey results are processed automatically at the University</li> <li>Survey results are presented at the Faculty Council sessions and published at the Faculty web site.</li> </ul>
Procedures for obtaining feedback from external parties (alums, employers, labour market and other relevant organizations)	<ul> <li>Once every month, the Faculty Management Board meets with the alumni representatives</li> <li>Once a year, during the annual FESB anniversary event, round tables and workshops are organised with representatives of employers and other stakeholders</li> </ul>
Evaluation of student practical education (where this applies)	Student training is not a mandatory part of the programme. Some of the students complete elective-based training abroad

Other evaluation procedures carried out by the proposer	<ul> <li>Internal audit of the quality assurance system is conducted once every year</li> <li>Self-evaluation is carried out every 5 years</li> <li>All the procedures are conducted in line with the Quality Assurance Handbook of FESB.</li> </ul>
Description of procedures for informing external parties on the study programme (students, employers, alums)	<ul> <li>All information are available through the Faculty web site: <u>https://www.fesb.hr</u></li> <li>Visits to the faculty are organised for high-school students from Split and the wider region</li> <li>Participation at University fairs</li> <li>Public media presentations</li> </ul>