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	specialized programs and courses curricula in program and
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1. INTRODUCTION

In order to enhance the academic and professional education in the area of Safety & Security in Serbia, IMPRESS project seeks to establish a "knowledge alliance" comprised of EU universities and institutions in order to offer their educational infrastructure (curriculum, modules, courses) and best practices that can be used as a role model for improving current capacity of Serbian educational institutions.

This report provides overview of current educational programs (courses) offered by EU partners and Serbian faculties. The goal of this analysis is to compare these programs as well as to identify courses offered by EU consortium members which, if adopted, may achieve quality improvement of education in the area of safety and security in Serbia.

2. OVERVIEW OF THE INSTITUTIONS AND STUDY PROGRAMS WHICH WERE THE SUBJECT OF THE ANALYSIS

Faculty of Applied Security - EDUKONS University (UESK), Belgrade, Serbia

Program title: The applied security

Program degree: Bachelor's degree, Master's degree, Doctoral Degree

The applied security program is intended for those who want to be engaged in building of the safer society, who wants to apply their knowledge and skills in order to eliminate various types of threats in the area of terrorism and political violence, while simultaneously advocating respect for human rights and the principles of democratic society. *The applied security* program offers multidisciplinary knowledge in the fields of social, environmental and corporate security, as well as business and crime security.

The Academy of Criminalistic and Police Studies (ACPS), Belgrade, Serbia

Program title: *Criminalistics, Forensics and Informatics study programs*Program degree: Bachelor's degree, Master's degree, Doctoral Degree

The Academy of Criminalistics and Police Studies was established by the Government of Serbia in 2006, after the reform of police education, and for the purpose of convergence with the EU standards. The Academy organizes and carries out: undergraduate and graduate studies in the area of criminalistics, forensic and information technologies.

Steinbeis University (SHB), Berlin, Germany

Program title: Master program in risk engineering and management

Program degree: Master's degree

Founded in 1998, Steinbeis University Berlin (SHB) is a state-approved private university that offers students and companies practice-oriented, extra-occupational higher education based on the project competence concept, leading to nationally recognized qualifications. The SHB portfolio of courses ranges from certification courses to degrees and doctoral programs. For the IMPREES project SHB offered the nine courses which are the part of their comprehensive *Master in Risk Engineering and Management*.





Sant'Anna School of Advanced Studies (SSSA), Pisa, Italy

Program Title:

Program Degree: Bachelor's degree, Master's degree, Doctoral Degree

Sant'Anna School of Advanced Studies is a public university institute - with special autonomy - working in the field of applied sciences: Economics and Management, Law, Political Sciences, Agricultural Sciences and Plant Biotechnology, Medicine, and Industrial and Information Engineering. Sant'Anna was formally established with Law no. 41 of 14 February 1987. It is a special-statute public university located in Pisa, and it is part of the Pisa University System, together with the Scuola Normale Superiore and the University of Pisa. For the IMPREES project Sant'Anna School of Advanced Studies offered eight courses belonging to the field of safety and security. The majority of them are aimed for postgraduate levels (4 out of 8 belong to master level, 2 of them are both for master and Phd students and 1 course is only for PhD students), and one is aimed for bachelor level.

The Faculty of Security Studies (FS), Belgrade University, Belgrade

Program title: Security sciences studies Program degree: Bachelor's degree

The Faculty of Security Studies is a graduate-level member institution of the University of Belgrade and belongs to the group of the humanities faculties. By its syllabus and curriculum, the Faculty covers interrelated philosophical, sociological, political, legal, economic, psychological, ethical, humanitarian, civilian-military, and other aspects of the security studies, defense studies, civil and environmental protection studies and human and social resources management studies. Within its core activity – the security studies, the faculty offers basic academic and undergraduate studies, Master degree studies, doctoral, and specialist undergraduate studies, as well as professional training and education.

Metropolitan University, Belgrade, Serbia (BMU)

Program title: Information technology

Program degree: Bachelor's degree, Master's degree

Metropolitan University, Belgrade, Serbia (BMU) educates future professional and etical leaders in Serbia and region. There are three faculties within Metropoliten University - Faculty of Information technology, Faculty for management and Faculty for digital art. Faculty of Information technology of Metropolitan University is accredited in the area of information systems and technical-technological scientific field. Faculty of Information technology of Metropolitan University was established in 2005 according to the Bologna declaration in educational system.

University of Stuttgart, Stuttgart, Germany (USTUTT)

Program degree: Bachelor's degree, Master's degree

The University of Stuttgart is located in Stuttgart, Germany. It was founded in 1829 and is organized into 10 faculties. It is one of the top nine leading technical universities in Germany with highly ranked programs in civil, mechanical, industrial and electrical engineering. The University of Stuttgart offers around 160 different Bachelor's and Master's study programs (Bachelor of science, Master of science, Bachelor of arts, Master of arts, Bachelor of fine arts teaching degree, Master of education teaching degree, Bachelor of arts





teaching degree, Master of building physics, Gym PO Teaching degree and Master of business engineering in English and German languages.

The list of the courses of each Consortium member is shown in *Appendix 1* of this report.

3) FINDINGS

Analyzed study programs/courses cover different areas of safety and security, from risks stemming from acts of terrorism and crimes (eg. EDUKONS, KPA, UB-FB), different aspects of sustainability management which includes environmental management and energy and waste management and corporate security and corporate resilience (e.g. Sant'Anna), different aspects of risk management (e.g.USTUT), issues related to health, safety and security (SHP), IT security (Metropoliten).

Sant'Anna School of Advanced Studies' courses give the insights into the issues of corporate security and into the ways corporations can improve social and corporate resilience and mitigate the risks in cases of emergencies and disasters (natural or man-made). The majority of courses are focused on international standards in the field courses cover, as the starting point and the prerequisite for further analysis of the problem. Sant'Anna School of Advanced Studies' courses can be used to improve Consortium members' study programs in areas that cover corporate risk assessment, corporate security and corporate resilience in disaster and emergency situations.

Courses offered by **Steinbeis University** (**SHB**), **Berlin** give insights into EU directives on industrial safety, major accident prevention, risk assessment methodologies, as well as International Standards of risk management and its application in industry. Also courses outline important EU regulation in the field of HSSE (Health, Safety, Security and Environment), including EU regulation in the field of safety and health of workers at work. EU regulation in the area of registration, evaluation and authorization of chemicals – REACH (EC Nr. 1907/2006) is also covered. Finally, SHB Berlin offered a course which explains accident and consequences modeling in industry, with strong emphasis on modeling of explosion, fire modeling and industrial fires.

The University of Stuttgart (USTUTT), Stuttgart, Germany offers bachelor's and master's study programs in the fields of science, art, education, etc. There is no one program named exactly safety and security but there are many of them which are related to these fields. The University of Stuttgart offers around 160 different Bachelor's and Master's study programs (Bachelor of science, Master of science, Bachelor of arts, Master of arts, Bachelor of fine arts teaching degree, Master of education teaching degree, Bachelor of arts teaching degree, Master of building physics, Gym PO Teaching degree and Master of business engineering in English and German languages. There are study programs Master of Acoustics, Aerospace Engineering (BSc and MSc), Air Quality Control, Solid Waste and Waste Water Process Engineering (MSc), Architecture and Urban Planning (BSc, MSc), Art History (BA, MA), Biology, Chemistry, Building Physics, Business Administration, Civil Engineering (BA, MA), Computational Linguistics (MSc), Computational Mechanics of Materials and Structures (MSc), Computer Science (MSc and BA), etc.

Study programs of the **Faculty for applied security, EDUKONS University** provide multidisciplinary knowledge in the fields of social, environmental and corporate security, as well as business and crime security. The general outcome of analyzed study programs is to provide scientific and practical knowledge on social and other forms and sources of risks that





may endanger society. Besides providing insights into security and safety risks, EDUKONS' programs also provide insight into the way security system is organized, not only at national level, but at regional and international level too, including both proactive and reactive manner of its functioning.

Courses at the **Academy of Criminalistic and Police Studies** that belong to the field of safety and security cover different issues: risks stemming from acts of terrorism and crime, risks stemming from natural, technological and man-made disasters and environmental hazards, crisis management and protection systems for property and persons. Besides, some courses from this area cover the topics of methodology of intelligence work and intelligence and counterintelligence aspects of terrorism and antiterrorism as well as organizational aspects of security system that is dealing with various security threats.

Similarly to above described ACPS study program, courses taught at the **Faculty of Security (FS)** deal with security and safety issues, but there is some clear distinction in the way how much emphasis particular aspects get in each study program. FS approaches to the safety and security issues from the aspect of the science of security, offering a broad corpus of knowledge in this field, while ACPS fosters a somewhat broader legal and criminalistic approach to the study of criminality as a negative harmful phenomenon that endangers safety and is a challenge to achieve a viable degree of protection.

Metropolitan University, Belgrade, Serbia (BMU) Faculty of Information technology – Programs Information technology and Information systems is the only one which has study program in Bachelor's degree in relation to the area of safety and security because there is one subject named *Protection and security of information (IT381)* in both programs of Bachelor's degree - 180 ESPB and 240ESPB. Metropolitan University, Belgrade, Serbia (BMU) - Faculty of Information technology – Program Software engineering (Master's degree 60 ECTS) has one subject in relation to the area of safety and security named *Secure software engineering (SE510)*. Study program in master's degree Information security has four subjects related to the safety and security field: *Security of operating systems (CS471)*, *Security of computer networks (CS472)*, *Security of databases (CS574) and Secure software engineering (SE510)*.

The Main School of Fire Service was established by a Polish law regulation of the Council of Ministers in January 18, 1982. According to the Act on the State Fire Service, the School also provides for future officers the opportunity to serve as trainees in the School Rescue and Firefighting Unit. MSFS's scientific and academic activity is carried out at two faculties: the Faculty of Fire Safety Engineering and Faculty of Civil Safety Engineering. MSFS graduates receive the title of the Safety Engineer in fire safety and civil safety.

5) RECOMMENDATIONS

5.1. New courses that can improve study programs related to safety and security in Serbian education institutions

International standardization in the area of risk management (ISO 31000:2009, ISO 31010:2009)

Risks affecting organizations can have consequences in terms of economic performance and professional reputation, as well as environmental, safety and societal outcomes. Therefore, managing risk effectively helps organizations to perform well in an environment full of uncertainty. ISO 31000:2009, *Risk management – Principles and*





guidelines, provides principles, framework and a process for managing risk. It can be used by any organization regardless of its size, activity or sector. Using ISO 31000 can help organizations increase the likelihood of achieving objectives, improve the identification of opportunities and threats and effectively allocate and use resources for risk treatment. ISO 31000 is supported by IEC/ISO 31010:2009 standard, offering information regarding selection and application of appropriate risk assessment techniques.

Educational studies program in Serbia lacks content regarding ISO standardization in the area of Risk management, so embedding such course content in existing curricula may mean significant quality improvement.

Possible EU contributor(s):

- Steinbeis University (SHB), Berlin, Germany

Public Health Oriented Risk Analysis

Different security threats may have serious consequences on public health (e.g. hazardous materials spills, industrial accidents, pandemic influenza, bioterrorism etc.). Assessment of public health risks from any type of hazard, whether naturally occurring or as a result of an accident or deliberate release, requires existence of systematic process for gathering, assessing and documenting relevant information. It provides the basis for taking action to manage and reduce the negative consequences of public health risks. Having in mind the importance of this aspect of safety and security, educational programs in Serbia may be improved with the contents that explains different phases of public health risk management cycle that starts with a) risk assessment — hazard, exposure and context assessment and risk characterization in which the level of risk is assigned to the event b) identification of potential control measures — ranked by priority, taking into account likelihood of success, feasibility of implementation and unintended consequences for the affected population and society more broadly c) continuous monitoring and evaluation as the event unfolds d) effective ongoing communication to ensure that risk managers, other stakeholders and affected communities understand and support the control measures that are implemented and d) an evaluation of lessons learned at the end of the response.

Possible EU contributor(s):

- Steinbeis University (SHB), Berlin, Germany

Incident Command Systems and Crisis management

In the case of the emergency situations good communication and coordinated response is a prerequisite of efficient and effective response. Communication flow must be directed to the place (e.g. incident command centre) where the situation will be assessed, objectives established, resources collected and organized in order to be put into the action. Based upon collected information a strategy or plan for handling the incident should be created, its effect should be closely monitored and adjusts the plan as needed. Besides these there are other issues that must be taken into account while handling crisis (who will provide information to the public, liaisoning with other agencies etc.). European standards and best practices regarding to operational responding to critical incidents may improve educational programs in the area of safety and security especially those focused on the management issues regarding incident response. Also contents regarding decision making support approaches (systems) for Risk Management should be presented.





Possible EU contributor(s):

- ATRISC company, France;
- The Main School of Fire Service Warsaw, Poland;
- The University of Stuttgart (USTUTT), Germany.

Critical Infrastructure Management

Facilities such as power generation plants, telecommunication exchange stations, and water supply facilities play an important role in maintaining the stability of society worldwide. The protection of these critical infrastructures become highly challenging to both public and private organizations because it requires synergy across intelligence, protection, and resilience activities. Hence safety and security educational programs in Serbia may benefit from course content that explains challenges and opportunities associated with infrastructure protection related public-private partnerships, information-sharing, risk analysis, risk mitigation and protective practices and measures to ensure that critical infrastructure is operational and recoverable following an attack or disaster. Special attention should be paid to practical application of critical infrastructure security and resilience from an all-hazards perspective.

Possible EU contributor(s):

- The Main School of Fire Service Warsaw, Poland;

The use of geospatial technology in emergency situations

The aim of the course is to provide students with basic theoretical and practical knowledge of geospatial information technologies, including the best practice of their use before, during and after emergency situation. Pre-disaster applications are associated with mitigation and preparedness efforts. Mitigation refers to activities that reduce the vulnerability of societies to the impacts of a disaster, while preparedness refers to activities that facilitate preparation for responding to a disaster when it occurs. Post-disaster applications are associated with response and recovery efforts. Post-disaster applications are associated with response and recovery efforts. The course should cover contents related to spatial data (different types, sources, resolution etc.), remote-sensing (RS), Global Navigation Satellite System (GNSS), Geographic Information System GIS, UAV including the way they can be integrated in emergency situations.

Possible EU contributor(s):

- The Main School of Fire Service Warsaw, Poland;

Modeling and simulation of security threats

Introduction to the usage of statistical and metamatic and physical models in the area of safety and security. The course will cover contents regarding: modeling theory, tools, methods, modeling techniques, model classification, statistical models in security modeling, mathematical - physical models of threats, fire modeling, simulation of evacuation. The course will entail the practical use of relevant software.

Possible EU contributor(s):

- The Main School of Fire Service Warsaw, Poland;
- Steinbeis University (SHB), Berlin, Germany





5.2) The possibilities of improving existing courses within Serbian educational institutions by implementing additional contents

ISO standards in the area of environmental protection

Study programs of different Serbian institutions contain courses related to Environmental safety (e.g. KPA, EDUKONS, FB-UB). Theses contents can be improved if they are extended with the contents regarding international standards in the area of environmental protection. For example, the ISO 14000 family of standards provides practical tools for companies and organizations of all kinds looking to manage their environmental responsibilities. In accordance with previously stated, "Environmental Management System" course offered by Sant'Anna School of Advanced Studies introduces specific standard ISO 14001: 2015 that must be in use in order to enhance managing, control and overall improvement of environmental performances of an organization. Benefits deriving from the application of this standard are twofold: first, it would increase business performance, profitability and improve corporate image, and second, nature will be more protected. This standard must be part of "Environmental Security" course because it will help to identify and involve local and key stakeholders in order to engage them and to reduce, or better handle, the negative local perceptions.

Possible EU contributor(s):

- Saint'Anna, Pisa, Italy (suggested course: *Environmental Management system - ISO 14001: 2015*)

Technology, information, communication techniques and business continuity plans in disaster management

Some of the study courses are dealing with natural crisis and disaster management (EDUKONS, KPA), but they can be improved by a holistic approach in dealing with natural crisis that includes developing Business Continuity Plan that contains information on how to involve employees or key stakeholders in the process, including usage of Geographic Information Systems (GIS), big data, or mobile technologies to manage a disaster. Besides, the role of communication in crisis is highly important in case of natural disasters caused either by flood, or fire or earthquake etc when communication is difficult or even impossible. This amelioration of courses with new content regarding communication aspects and business continuity altogether with technology and information can help improve organizational skills necessary for dealing with natural disaster.

Possible EU contributor(s):

- Sant'Anna, Pisa, Italy (suggested course: *Natural Disaster Management: business continuity and communication techniques*).
- The Main School of Fire Service Warsaw, Poland (suggested courses: *Critical communication in crisis situations, Spatial information systems*).
- The University of Stuttgart (USTUTT), Stuttgart, Germany (suggested course: Risk Perception and Risk Communication).

Safety cost analysis and measuring of sustainability performance

Some of the members of the Consortium already have developed courses on advanced management of some types of risks, like financial risks (EDUKONS), so this course can be





improved by adding a new content regarding methods and instruments for the economic evaluation of costs of safety lack and by their comparison with the value of investments in prevention. These improvements can be useful for easier risk assessment and further preventive measures.

Possible EU contributor(s):

- Sant'Anna, Pisa, Italy (suggested course: Sustainability performance measurement (sustainability reporting and safety cost analysis)).
- The University of Stuttgart (USTUTT), Stuttgart, Germany (suggested course: *Integrated Corporate Responsibility and Sustainability*)

Vulnerability assessment on the basis of socio-economic and environmental risky issues

Some members of the Consortium have already developed different courses that are dealing with risk analysis (e.g. FS, ACPS), but these courses can be improved with additional elements like vulnerability assessment that include indicators like territorial context and socio-economic and environment factors. These courses can be enriched with tools to identify, manage and monitor local socio-economic and environmental issues that can cause risks and threats.

Possible EU contributor(s):

- Sant'Anna, Pisa, Italy (suggested course: Sensitivity Analysis of Territorial Context: identification and Evaluation of Local socio-economic and Environmental Risky Issues).

Occupational Health and Safety

Having in mind Serbia's current effort towards EU integration, there is a need to enhance study programs with contents regarding EU regulations in the field of safety and health of workers at work. Presented topics should include general principles concerning the prevention of occupational risks, the protection of safety and health, the elimination of risk and accident factors, general guidelines for the implementation of these principles as well as informing, consultation and balanced participation in accordance with national laws and/or practices. The course also discusses the training of workers and their representatives.

Possible EU contributor(s):

- Steinbeis University (SHB), Berlin, Germany (suggested course: Occupational Safety and Health
- Sant'Anna School of Advanced Studies, Italy (suggested course: Occupational Health and Safety (OHSAS 18001))





Appendix 1

List of analyzed courses delivered at IMPRESS Consortium institutions

Institution name	Bachelor level	Master level	PhD level
EDUKONS UNIVERSITY (Faculty of Applied Security)	 Business ethics Basics in law Basics of economics Informatics English I Basics of security Economy of the European Union Principles of management English II Criminal Law Crisis management Human resource management Applied Security Ecological crime Emergency management Sustainable Development Management Criminal Law International relations/affairs Criminology with penology Ecological security Marketing Physical Chemical basics of forensic Natural phenomena and disasters Biochemical basics of forensics Corporate security Instrumental methods in forensics Fundamentals of energy effeciency Project management Health and Safety at work 	 System of national security Monitoring of natural processes Decision theory Industrial Safety Criminal methodology Energy security Risk management Critical Infrastructure Management Methodology of scientific work Victimology Technical systems of security and protection Strategic Management Change Management Conflict Management 	 Integrated security systems Modern management theory in corporate security Energy efficiency and Security Systems Environmental aspects of the national security system Introduction to Doctoral Dissertation Contemporary planning systems and crisis management Managing in criminal investigations Globalization of world politics Methods and methodology of intelligence work Medical protection of human resources in emergency situations Security project management Intelligent protection of modern economic development Advanced management of financial risks





	Strategic Management		
Academy of Criminalistics and Police Studies - KPA	 Introduction to law Constitutional law Basics of informatics Criminal Law I & II English I Sociology and social patology Basics of economy Technical resources used by police Special physical education Criminalistics tactics Misdemeanor law Criminology The basics of criminal procedure law National history of the state and law Criminalistics' technique Organisation and duties performed by police organisation Administrative law English II Criminalistics methodic National security Internal affairs law Police informatics Victimology Community policing Police ethics Traffic safety Ecological safety Human rights Police topography Criminalistics' medicine Safety in emergency situations Prevention and Suppression of Fires, 	 Methodology of scientific research Police and human rights International criminal law Crime profiling Victimology Human resource and material resource management High-tech crime Therorism and political violence Crisis management Bioterrorism GRADUATE SPECIALIST STUDIES: Security Systems Phenomenology of Security Threats Comparative models of security protection of persons and property Endangering persons, property and business Intelligence and Counterintelligence aspects of Terrorism and Antiterrorism 	 Methodology of scientific research Criminology Criminal law Criminalistics International human rights Law and economy of the public sector Police management Decision making support in police organisation Contemporary security studies Safety in emergency situations Criminalistics and combating contemporary crimes Criminalistics' analystics





	Accidents and Explosions		
	Crime prevention		
	International public law Public finance		
	Public finance		
	 Psychology of crime 		
	 Property and persons protection system 		
	• The role of the police in criminal		
	procedure		
	 Security management 		
	 Organized crime 		
	 Police control and traffic regulation 		
	 Illegal migrations and trafficking in 		
	human beings		
	 Risks management in the protection and 		
	rescue system		
	 Biometrical identification 		
	 International police cooperation 		
	 Methodology of intelligence work 		
	 Financial crime 		
	Crime mapping		
	 International security 		
	 Human Security 		
		 Introduction to Risk Management 	
		 Business Communication and 	
		Management of Intercultural	
		differences	
Steinbeis University Berlin		 Principles and Methods of ISO 31000 	
1		 Health, Safety, Security and 	
(Master Study Program in Risk		Environmental Risks	
Engineering and Management*)		 Occupational Safety and Health 	
		 Public Health Oriented Risk Analysis 	
		 Principles and Methods of ISO 31010 	
		 Risk Analysis of Chemicals 	
		 Accident and Consequences Modeling 	
Sant'Anna School of Advanced	 Sustainability management (basic 	 Occupational Health and Safety 	■ Sustainability management (advanced





	Studies, Pisa, Italy	course)		(OHSAS 18001)	course)
CISO 14001: 2015)	, , ,		•		• Natural crisis and disaster management:
Sustainability management (advanced course)					business continuity and communication
Sustainability performance measurement (sustainability reporting and safety cost analysis)			•	Sustainability management (advanced	
Management (sustainability reporting and safety cost analysis)				course)	Sensitivity analysis of territorial context:
and safety cost analysis) issues Sensitivity analysis of territorial context: identification and evaluation of local socio-economic and environmental risky issues Social Accountability (SA8000) Risk Governance Concepts and Practices- Integrated Corporate Responsibility and Sustainability Risk Perception and Risk Communication Emerging Risks Quality Management Project Management Decision Aid Approaches for Risk Management Sociology The basics of security Legal basics of security Serbia Faculty of Security, Belgrade Serbia Faculty of Security, Belgrade Serbia Faculty of Security, Belgrade Serbia Introduction to management Introduction to security studies			•	Sustainability performance	identification and evaluation of local
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Context: identification and evaluation of local socio-economic and environmental risky issues				and safety cost analysis)	issues
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■ English I,	
■ Political system	
■ Security systems	
International relations	
■ The basics of geopolitics	
Informatics	
 Protection and rescuing system 	
■ Theory and organization of education	
 Defense systems 	
■ English II	
 Criminal law 	
■ Civil defense system	
 Criminology 	
Civil protection	
 Serbian contemporary history 	
 Public international law 	
■ Civil - military relations	
■ Environmental protection	
Security management	
 Methodology of scientific research 	
 Crisis management 	
 Social pathology 	
 Terrorism and organized crime 	
 Security and protection systems 	
 Criminalistics 	
 Projecting of data protection system 	
Information security	
 Criminal procedure law 	
 Victimology and penology 	
 Applied ethics 	
 Educational management in public sector 	
 Human security 	
 Media and communications 	
 Projecting and planning in security 	
sector	





	 Corporate security Social psychology Strategic management of human and social resources Security and occupational safety Management in protection systems Environmental security Industrial security and protection Monitoring in protection Health and social protection Spatial planning and protection Crisis management in emergency situation Intelligence systems Logistics in the national defense system Sociology of politics Diplomacy and defense The defense law Management in the defense system War ethics 		
BELGRADE METROPOLITEN UNIVERSITY (BMU) FACULTY OF INFORMATION TECHNOLOGY Study program Information technology	 180ECTS Introduction in objectively oriented programming Basics in information technology Mathematics for IT English 1 Objects and abstraction of data Systems of information technology C/C++ program language English 2 Computer networks and communications Architecture of computer Data bases English for IT Web systems1 	 MAS Security of information: Cryptography and crypto technologies Operating system security Computer network security Analysis of advanced algorithms Computer forensics Final paper Database Security Secure Software Engineering 	





impress.	
	■ Interaction of man and machines
	 Operation systems
	■ Scripting languages
	■ Web systems 2
	 Protection and security of information
	 Professional practice
	 Professional communication
	 Administration of computer systems and
	networks
	 Professional practice and ethics
	Business economy
	 Discrete structures
	 Programming in C#
	 Developing of mobile applications
	Managing of projects for developing
	software
	240 ECTS
	 Introduction in objectively oriented
	programming
	Basics in information technology
	■ Mathematics for IT
	■ English 1
	Objects and abstraction of data
	Systems of information technology
	■ C/C++ program language
	■ English 2
	Computer networks and communications
	Architecture of computer
	■ Data bases
	■ English for IT
	■ Web systems1
	■ Interaction of man and machines
	 Operation systems
	 Scripting languages
	 Introduction in software engineering





	Administration of computer systems and
	networks
	■ Web systems2
	 Managing of projects for developing
	software
	 Distributed systems
	 Protection and security of information
	 Developing of mobile applications
	C# program language
	Discrete structures
	 Professional practice
	Professional practice and ethics
	Professional communication
	Quality management
	Basics in information technology
	■ Introduction to Object-Oriented
	Programming
	Computer Architecture
	Mathematics for IT
	■ English 1
	Objects and abstraction of data
	■ C / C ++ programming language
	Discrete structures
BELGRADE METROPOLITEN	
UNIVERSITY (BMU)	English 2
FACULTY OF INFORMATION	Algorithms and data structures
TECHNOLOGY	Introduction to Software Engineering
Study program Computer games	Graphic Design Basics
	• English for informatics
	Introduction to computer games
	Development of mobile applications
	Design and Game Mechanics
	Visual narration and dramaturgy of
	computer games
	 Operating Systems
	■ Production of video games



	Game Development 1		
	 Artificial intelligence in games 		
	 Databases 		
	Software Development Management		
	Software Software		
	Game Development 2		
	Human-computer interaction		
	 Development of character and 		
	environment for video games		
	 3D modeling - Maya 		
	 Professional Practice - Computer Games 		
	(4 Months)		
	 Distributed Systems 		
	Programming in C #		
	 Professional practice and ethics 		
	 Professional communication 		
	 User Interaction and Testing Games 		
	 Software environments for the 		
	development of computer games		
	Entrepreneurship		
	 Team development of computer games 		
	Game Development 2		
	<u> </u>		
	Final work	- D 1	- N. d. 1.1. C. : d'C'. 1. 1.
	■ Introduction in objectively oriented	 Development of large software 	Methodology of scientific research work
	programming	systems	 Models of software systems
BELGRADE METROPOLITEN	 Architecture of computer 	• Evaluation and measurement of	 Architecture of software systems
UNIVERSITY (BMU)	Mathematics1	software	 Research project 1
FACULTY OF INFORMATION	• English1	 Agile Development Software 	 Research project 2
TECHNOLOGY	 Objects and abstraction of data 	 Software development for embedded 	 Research project 3
TECHNOLOGI	C/C++ program language	computing systems	Independent research work on the
Study program Software	Discrete structures	 Intelligent Software Systems 	preparation of doctoral dissertations
Study program Software	■ English 2	 Professional practice 	 The use of semantic web technology in
engineering	 Algorithms and structures of data 	• Final work	the public sector
	 Introduction of software engineering 	 Advanced e-learning systems 	 Research of e-learning systems
	Data bases	 Semantic Web Technologies 	 Systems in real time and embedded
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-	- English for IT	- Cassus Caferrana Fracina aning	
	English for IT	Secure Software Engineering	systems
	• Web systems 1		Testing and quality of software
	 Interaction of man and machine 		 Serious games and simulations in real
	 Software design 		time
	Mathematics 2		 Experimental computing
	• Web systems 2		 Software for Real Time Systems and
	 Providing of quality, testing and service 		Embedded Systems
	of software		Research in software engineering
	 Projecting and architecture of software 		 Artificial intelligence
	■ Engineering of demand		
	 Managing of projects for developing 		
	software		
	Operating systems		
	Developing of mobile applications		
	Scripting languages		
	Probability and statistics		
	Managing of business processes		
	Professional practice		
	Programming in C#		
	Business economy		
	 Professional practice and ethics 		
	 Professional communication 		
	 Protection and security of information 		
	 Distributed systems 		
	 Entrepreneurship team development of 		
	software		
	 Modern technology platforms 		
	Basics of information systems	 Models of business organization 	
BELGRADE METROPOLITEN	 Management Basics 	 Analysis, Modeling and Design IS 	
UNIVERSITY (BMU)	 Introduction to Operations Management 	Advanced IT Infrastructure	
FACULTY OF INFORMATION	■ Fundamentals of Information	 Advanced Database 	
TECHNOLOGY	Technology	■ Business Intelligence	
Study program Information	■ English 1	■ Professional practice	
systems	 Application Development 	■ Final work	
SJ 2001112	 Analysis and design of business 	Methodology for Business Process	
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	nrogenag	Managamant	
_	processes	Management	
	Information Technology Systems	■ IT Project Management	
	Mathematics for Managers		
	English 2		
	Databases		
	MK110 Business Economy		
	Business statistics with probability		
•	English for informatics		
	IT infrastructure		
•	Human-computer interaction		
	Business finance with accounting		
	Business Process Management		
	Project Management		
	System Analysis and Design		
	IT System Architecture Organization		
	Digital Content Management		
	Information Systems Organization		
	Strategy and Information Systems		
	Management		
	Business Process Management		
	Scripting languages		
	Public Finance		
	IT system audit and control		
	Professional Practice (2 months)		
	Information Systems Development		
	Project		
_	Final work		
	C # Programming language		
	Managing organizational changes		
	Computer Architecture		
-	Introduction to Object - Oriented		
	Programming		
	Quality Management		
	International Business		
	Elective course 5:		





	Business IntelligenceLogistics and Supply Chain Management		
BELGRADE METROPOLITEN UNIVERSITY (BMU) FACULTY OF MANAGEMENT Study program Business and Marketing	 Management Basics Basics of information systems Introduction to Operations Management Principles of Marketing English 1 Business accounting with accounting English 2 Development of new products Sales principles Integrated Marketing Communications Business Economics Business Economics Business statistics with probability English for Managers Advertising Human Resource Management Business law Sales Management Marketing research Project Management Public Relations Consumer Behavior Digital Marketing Entrepreneurship Business Law Marketing Management Brand Management Strategic Management International Business Professional Practice Elective module 1 module MK: Marketing Planning Managing organizational changes 	MAS Marketing management Strategic marketing Comunications and public relation Marketing management – advanced level Trade management – advanced level Brend management - advanced level Advertisement Project of market research Negotiation and lobbying Final work	 Marketing management Methodology of scientific research Policy and development strategy Innovation management and entrepreneurship Research project 1 Research project 2 Knowledge Economy and National Innovation System Strategic management – advanced level Behavior of a consumers Research and modeling of integrated market communications Economic analysis and business intelligence Marketing management Business strategy Strategic brand management Managing of satisfaction of byers





	■ Elective module 2 module MK:
	 Business in sport
	 Management of service processes
	 Marketing campaign project
	 Management of special and media events
	• Final work
	Management Basics
	 Basics of information systems
	■ Introduction to Operations Management
	Principles of Marketing
	■ English 1
	Business finance with accounting
	■ English 2
	 Analysis and design of business
	processes
	 Mathematics for Managers
	 Development of new products
	Business Economy
BELGRADE METROPOLITEN	Business statistics with probability
UNIVERSITY (BMU)	 English for Managers
FACULTY OF MANAGEMENT	Production planning and management
Study program Engineering and	 Human Resource Management
operational management	Business Process Management
	 Logistics and Supply Chain Management
	 Logistics and Supply Chain Management Management of service processes
	 Management of service processes Dramaturgy of video games
	• Operating Systems
	Project Management
	Modeling and designing companies
	Quality Management
	• Design of drives and layouts
	■ Entrepreneurship
	Business Ethics and Communication
	System modeling and optimization
	• Elective course 1:





	■ Information Systems Organization
	Maintenance Management
	■ Elective Course 2:
	Distributed Systems
	Programming in C #
	■ Improve operations
	 Operation strategy
	• Elective Course 3:
	Managing organizational changes
	 International Business
	■ Elective course 4:
	 Business Law
	■ Sales Management
	 Professional practice
	• Final work
	Management Basics
	 Basics of information systems
	■ Introduction to Operations Management
	 Principles of Marketing
	■ English 1
	Business accounting with accounting
	■ English 2
METROPOLITEN UNIVERSITY	 Marketing in sport
(BMU)	■ Introduction to a sports manager
FACULTY OF MANAGEMENT	■ Sports history
Study program Management in	■ Business Economy
sport	 Business statistics with probability
	■ English for Managers
	 Management of sports facilities
	■ Human Resource Management
	■ Sales Management
	 Business Ethics and Communication
	 Principles of training in sport
	■ Project Management



	- D11 D12	—
	Public Relations	
	Consumer Behavior	
	■ Digital Marketing	
	■ Entrepreneurship	
	■ Business Law	
	 Management of sports organizations 	
	■ Sports Event Management	
	■ Strategic Management	
	■ International Business	
	■ Management of special and media events	
	 Professional sport 	
	 Advertising 	
	■ Digital Content Management	
	■ Sports Safety Management	
	■ Brand Management	
	Sales principles	
	Business in sport	
	 Professional Practice 	
	■ Final work	
	■ Drawing 1	
	Letter	
	Design history	
	■ Graphic Design Basics	
	■ English 1	
	■ Drawing 2	
METROPOLITEN UNIVERSITY	■ Typography	
(BMU)	■ Graphic Design Processes and	
FACULTY OF DIGITAL ART	Techniques History of Art of the Old and	
Study program Graphic design	Middle Ages English 2	
Study program Grapme design	 Drawing and stylization shapes 	
	 Corporate Identity 	
	■ Graphic Design 1	
	Digital Photography	
	Digital Photography Finglish for Designers	
	English for Designers Complia Design 2	
	■ Graphic Design 2	



	- Wand Identity		
	■ Visual Identity		
	• Art form		
	• Visual culture		
	 The history of art of the new century 		
	Illustration		
	Web Design 1		
	Design Publications 1		
	 History of Modern and Contemporary 		
	Art		
	Design Publications 2		
	 Packaging Design 1 		
	■ 3D modeling		
	 Digital communications 		
	 Packaging Design 2 		
	 Compositing in graphic design 		
	 Visual Culture Theory 		
	 Introduction to animation 		
	 Interactive Media 1 		
	 Digital Illustration 		
	 Digital communications 		
	 Animated graphics 		
	• Web Design 2		
	■ Portfolio		
	 Professional practice for DG 		
	■ Final work		
	Drawing and painting	 MAS Design of new media 	
	 Introduction to animation 	 Motion graphics 	
A CENTRAL PROPERTY AND ASSESSED ASSESSE	 Design history 	 3D modelling and animations 	
METROPOLITEN UNIVERSITY	Basics of Graphic Design	 Advanced video compositing 	
(BMU)	• English 1	 Design of mobile applications 	
FACULTY OF DIGITAL ART	 Computer animation 	 Design of interaction and user 	
Study program Design of	Typography 1	experience	
interactive media	Drawing 2	 Programing of interactive applications 	
	 History of Art of the Old and Middle 		
	Ages		
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	■ English 2		
	■ Interactive Media 1		
	Dramaturgy		
	■ Web Design 1		
	 Digital Photography 		
	 English for Designers 		
	 Interactive Media 2 		
	■ Web Design 2		
	 Animated graffiti 		
	■ The history of art of the new century		
	 Drawing and stylization shapes 		
	 Video production technology 		
	History of Modern and Contemporary		
	Art		
	Sound Dramaturgy		
	• Animation 1		
	Recording and sound design		
	Visual culture Visual culture		
	 Introduction to computer games 		
	Digital communications		
	 Human-computer interaction 		
	Visual Effects		
	Digital Video		
	■ Production of video games		
	Visual Culture Theory		
	Fundamentals of Information		
	Technology		
	History of Modern and Contemporary		
	Art		
	Recording and sound designVisual narration and dramaturgy of		
	computer games		
	 Entrepreneurship Web Systems 1 		
	• Web Systems 1		
	 Development of character and 		





	environment for video games
	■ Human-computer interaction
	Scripting languages
	■ Visual Identity
	■ Portfolio
	Professional practice for DIM
	■ Final work
	■ Drawing 1
	■ Basics of modern dressing 1
	Costume Design 1
	Graphic Design Basics
	■ English 1
	■ Drawing 2
	Basics of modern dressing 2
	Graphic Design Processes and
	Techniques
	Anatomical drawing
	■ English 2
	Tailoring and sewing 1
METROPOLITEN UNIVERSITY	Costimography 2
(BMU)	 Drawing and stylization shapes
FACULTY OF DIGITAL ART	Digital Photography
Study program Fashion design	English for fashion design
Study program rushion design	Textile Design 1
	Tailoring and sewing 2
	Fashion Design 1
	■ Art form
	Anatomical drawing
	Fashion Design 2
	Textile Design 2
	■ Illustration
	 Design and modeling of clothing 1 Fashion Design 3
	3D fashion design The history of out of the new contains.
	■ The history of art of the new century





■ Design and modeling of clothing 2
■ Fashion Techniques
 Design history
■ Fashion Design 4
 Professional Practice for MD
 Design Publications 1
■ Graphic Design 1
 Design and modeling of clothing 2
 Visual Identity
■ Fashion marketing
■ Fashion illustration
■ Portfolio
■ Finishing work - fashion design