UNIVERSITETI I EVROPËS JUGLINDORE

УНИВЕРЗИТЕТ НА ЈУГОИСТОЧНА ЕВРОПА

SOUTH EAST EUROPEAN UNIVERSITY

Study program	**Cybercrime (2017/2018)**
Faculty	Law
Study Cycle	Second Cycle (Postgraduate)
ECTS	60
Title	Cybercrime Specialist
Accreditation archive number [60]	03-612/3
Decision for starting of the program	03-1619/18 (10.11.2017)
Accreditation date	21.03.2017

Description of the program

The field of criminal justice is changing nowadays. The latest technological advancements, coupled with contemporary world events, have created an ever-increasing need for criminal justice professionals who have insight into the sociological, legal, theoretical, technological and practical areas of law enforcement in the cyber world.
This professional program will allow for a higher degree of specialization in both legal and IT fields and as such it is designed for those who want to advance in the field of criminal justice with an important component of the ICT in it, or simply gain a deeper understanding of this fascinating discipline in a professional matter. Degree candidates will take courses where they will analyze criminal behavior on the cyber ecosystem, apply the knowledge in forensics investigation, learn theories of social control, and gain an informed perspective of law enforcement, the judicial system, and technology means in general.

Students who complete this degree will be able to demonstrate:

• Advanced knowledge and ability to evaluate criminological and criminal justice theories and their implications for public policy and practice within the cyber world ecosystem.
• Proficiency in digital forensics, investigative analysis related to evaluation of crime causes from the cyber world in general.
• Efficient competence to evaluate and resolve the ethical issues in criminal justice practice, policy, and research.
• An ability to synthesize, evaluate, recognize implications, and communicate effectively using scholarly sources of information connected to crime theory and policy as well as cyber crime.
• An understanding of leadership theories and skills as they pertain to managing and leading criminal justice organizations.
• Be prepared as personnel for high-performance labor market by blending the best from criminal law theories and practices with the technology knowledge and practice.

Career

- The applied nature of the program will help you prepare for a role in the public or private sector, potentially investigating hacking, online drug markets, the dark web, sexual exploitation/child protection online and more.

Learning outcomes

Knowledge and understanding

- Has advanced theoretical, empiric and comparative knowledge on criminal law sciences as well as advanced knowledge on the legislation and jurisdiction in the area of the prevention of crime.
- Has in-depth understanding of problems related to crime and penal sanctions especially in the fields of comparative criminal law and procedure, theoretical and applicable criminology and penology, organized crime and forensic sciences (medicine, psychiatry, psychology).
- Has specific knowledge of advanced research techniques and methods in the area of criminal law and procedure.

Applying knowledge and understanding

- Identifies and analyzes more complex problems in the area of criminal law and procedure, thus can take active part in all the stages of a criminal procedure as well as can interpret advanced issues of the criminal legislation (including working as a judge, prosecutor or attorney, once they have the needed qualifications according to the legislation of RM).
- Utilizes the knowledge gained through research in the problem solving process through comparing practices and solutions in the area of prevention of crime.

Making judgement

- Performs more critical thinking through methods of analyzing and comparing.
- Develops skills of solving problems through case-law practices of more complex national and international cases.

Communication skills

- Utilizes proper terminology for complex and specific issues in the area of criminal law sciences.
- Is able to reach decisions and work more directly and effectively in all the police and court stages of a criminal procedure.
- Is involved in research based legal argumentation and debate.
- Utilizes the official languages of the University as well as more advanced computer skills in the research work.

Learning skills

- Develops a regulation of research to be used in their profession.
- Creates a practice of lifelong learning and service through being involved in training persons that work in the state institutions of crime prevention.

List of courses

Semester 1

- [SCC-0101] [6.0 ECTS] **Cybercrime**
- [SCC-0102] [6.0 ECTS] **Applied Digital Forensics Investigation**
- [SCC-0103] [6.0 ECTS] **IT Law**
- [6.0 ECTS] **Elective course**
- [6.0 ECTS] **Elective course**

Semester 2

- [SCC-0201] [6.0 ECTS] **Criminal Justice Administration**
- [SCC-0202] [6.0 ECTS] **Applied Data and Network Security**
- [SCC-0203] [6.0 ECTS] **Practical Internship**
- [6.0 ECTS] **Elective course**
- [6.0 ECTS] **Elective course**

Description of courses

Core courses

- **Cybercrime**
  The aim of this course is to inform the students about the legal aspects of computer crime. The use of informative technologies is the main characteristic of modern times. The life of the contemporary human being is unimaginable without technology which is an important segment. On the other hand, this kind of technological achievement has its

own dark side which includes use of technology for criminal purposes. In the contemporary aspect, computer crime is very evident and widespread form of crime taking into consideration the large number of users of informative technologies which corresponds to the large number of victims of such crimes. This course will help students understand the forms of appearance of computer crime, its regulation with legal provisions as well as the main phenomenological, typological and ethiologcal characteristics of this form of criminality.

- **Applied Digital Forensics Investigation**
  This course aims to provide students with knowledge and understanding about the different data that can be used to investigate both digital and non-digital crime, as well as the the processes and tools used to conduct computer forensic investigation. Students will be exposed to different use cases, through which they will learn to identify the tasks they need to perform and choose the appropriate approach and tools to be used. Students will also analyse artifacts and details they may have been missing during their examinations. The students will also learn how to follow systematic processes while conducting digital investigation, and strengthen their ability to draw conclusions based on their findings.

- **IT Law**
  Aims of the course program: - to get acquainted with the basic terms, concepts and main features of the areas that include the information technology law as a scientific applied discipline; - to discuss the topics in the field of interweaving interests of law and information technology; - to develop skills for the search on the information's in cyber space relevant for the legal profession; - to apply the basic legal provisions on the concrete cases of practice, and strengthening analytical capacities and the ability for critical reasoning.

- **Criminal Justice Administration**
  Aims of the course program: The context of criminal justice administrators is tense. This course aims to identify the basic structure and function of criminal justice organizations while paying attention to how criminal justice organizations are managed and led. This course will illuminate key criminal justice administration concepts and ideas that will provide a framework to understand the complexities of criminal justice administration.

- **Applied Data and Network Security**
  This class is designed to teach students how to properly secure a web server, web page, and web application. Students will take an already existing web application and redesign it to be as secure as possible. Students will also design and build an eCommerce site designed with the best security practices. Students will learn how to protect confidential information, including financial and personal data. Part of security is testing the security and vulnerabilities of the web application. To that end, students will also learn the common techniques for penetrating web applications and web servers. This will give students the techniques to properly test their web applications in their academic and professional careers.

- **Practical Internship**
  The purpose of the practical internship is to give students the possibility to get an experience of this field. Practical internship will be organized with support from the Military Science Department, the Unit for Fight against Cybercrime, the Public Prosecution of RM, Department of Computer Crime within the Ministry of Interior of RM etc.

Elective courses

- **Web Application Security**
  This class is designed to teach students how to properly secure a web server, web page, and web application. Students will take an already existing web application and redesign it to be as secure as possible. Students will also design and build an eCommerce site designed with the best security practices. Students will learn how to protect confidential information, including financial and personal data. Part of security is testing the security and vulnerabilities of the web application. To that end, students will also learn the common techniques for penetrating web applications and web servers. This will give students the techniques to properly test their web applications in their academic and professional careers.

- **Ethical Hacking**
  This course aims to build an "ethical hacker", which in fact is a skilled professional who understands and knows how to look for weaknesses and vulnerabilities in target systems and uses the same knowledge and tools as a malicious hacker, but in a lawful and legitimate manner to assess the security posture of a target system. This course is designed to equip you with the knowledge and skills to lead the fight against the cyber criminals and keep hard-

earned assets secure. The course will cover the essentials of computer systems architecture, programming, operating systems and databases, alongside specialist topics in digital forensics, legal issues, networking, ethical hacking and computer security. The experience is designed to be hands-on, requiring you to become familiar with penetration testing tools, encryption algorithms and forensic analysis software, alongside more traditional classroom studies.

- **IT Security Policies and Procedures**
  The aim of this course is to enable students to implement security policies and procedures to support organizational goals. It discusses methodologies for identifying, quantifying, mitigating, and controlling security risks. Students learn to write security risk management plans according to best standard security guidelines and best practices, and techniques to recover infrastructure, systems, networks, data, and user access.

- **Criminology**
  Course objectives: - Gaining knowledge about the object of study of criminology, criminological major institutions, the importance and impact of various factors on committing crimes, criminological examination of the perpetrator and the victim of the offense; - Identification and analysis of criminological issues. - Critical analysis of the concepts and terms specific to criminological research. - Successful use of the acquired terminology in the field of criminology in various debates and discussions in this field. - Developing a system of learning through the identification and use of the main sources of Criminology.

- **Victimology**
  Course objectives: - Gaining knowledge about the concept, creation and development of Victimology as a specific criminal legal science, understanding the position of the victim of the crime as a separate entity, its needs and means of redress as well as their involvement in criminal proceedings. - Identifying and analyzing the main victim-based problems facing this modern science. - Critical analysing of the victimology concepts and terms, and use of knowledge to solve hypothetical cases related to the victim of the offense. - Successful use of the acquired terminology in the field of Victimology in various debates and discussions in this field. - Developing a system of learning through identification and use of the main sources of science victimology.

- **Organized Crime**
  Course objectives: Gaining basic knowledge about criminal acts of organized crime, their emergent forms, forms which appear and ways of dealing with them. Through this program students will be able through the process of their integration into the social mainstream to help distinguish the forms of classical forms of criminality and organized crime. Students will also be able to find and take most appropriate methods and means for resolving this type of crime and that knowledge will be applied in the operational - the practical working with a successful detection and prevention of crimes related to organized crime.