

UNIVERSITY OF SARAJEVO

ELABORATION

**ON THE JUSTIFICATION OF ESTABLISHING THE 2nd CYCLE
STUDY PROGRAM - MASTER'S STUDY**

Law and Digital Technologies

Sarajevo, February 2023. godine

1. INTRODUCTION

The elaboration on the justification of the establishment of the one-year master's study program "Law and Digital Technologies" was prepared in accordance with the *Rulebook on the procedure for proposing, evaluating, adopting new and changing existing study programs and curricula* at the University of Sarajevo - revised text, adopted on 23rd electronic session of the Senate of the University of Sarajevo held on January 27, 2021, based on Article 91 and Article 93 of the Law on Higher Education ("Official Gazette of Sarajevo Canton", number 36/22) and Article 138 of the Statute of the University of Sarajevo.

The elaboration contains everything stated in the Rulebook under Article 2 (Proposer of the study program), Article 3 (Necessary documentation) and Article 4 (Content of the elaboration on the study program). Additionally, it contains what is stated in Article 5 (Documentation on personnel conditions), in Article 6 (Documentation on spatial conditions and equipment), in Article 7 (Documentation on financial resources for the implementation of the study program) and in Article 8 (Content of the quality assurance plan)) with the required accompanying documentation.

1.1. Institution proposing the program (mission, vision, strategy and institutional framework)

Center for interdisciplinary studies - prof. dr. Zdravko Grebo (CIS) was founded in 1995 within the University of Sarajevo with the aim of promoting an interdisciplinary approach in the field of higher education and developing educational, scientific and research programs that go beyond the scope of individual scientific disciplines. Contemporary trends in higher education, scientific research work and lifelong learning are fundamentally connected to the interdisciplinary approach, understood as the integration and synthesis of perspectives of different scientific disciplines, as a key concept for the improvement of curricula. The labor market and the academic community demand to go beyond the framework of traditional disciplines and professions, whose inevitable limitations are not conducive to the deep and thorough study and teaching of increasingly complex social and natural phenomena. CIS is directed towards the interdisciplinary education of a new generation of experts from Bosnia and Herzegovina, as well as from the countries of the Southeast European region. As such, CIS gathers more than a hundred respected domestic and foreign experts from numerous scientific fields who work together on educational, scientific and development programs and projects. CIS has found its place within the University of Sarajevo and is an innovative incubator for interdisciplinary programs and projects. The focus of CIS activities is realized through three basic areas, namely:

1. Degree interdisciplinary education through postgraduate (master's) and doctoral study programs
2. Non-degree interdisciplinary education through lifelong learning programs
3. Scientific research and market-oriented projects of an interdisciplinary character.

Vision: Affirmation of an interdisciplinary approach in teaching programs as a distinctive feature and comparative advantage of the CIS, but also of the educational system of Bosnia and Herzegovina and its public policies.

Mission: The Center for Interdisciplinary Studies strives to become recognizable in the academic, social and business community as an incubator for interdisciplinary education and interdisciplinary projects. In this sense, CIS is engaged in the mission of promoting interdisciplinarity in education, science and public policies, thereby contributing to the spread of basic knowledge, critical reflection and understanding of social and natural phenomena, and the preparation and implementation of scientifically and expertly based public policies and measures.

Taking into account the previously defined vision and mission of CIS, and the three areas of its activity, CIS is committed to achieving the following goals by 2022:

1. Maintenance and development of a unique interdisciplinary educational platform intended for the development of human resources necessary in the processes of democratic consolidation and European integration in Bosnia and Herzegovina and the region of Southeast Europe.
2. Interdisciplinary education of the young generation of experts for academic and professional positions, from the domestic "think tank" base, and professional public administration, to new political leadership, aligned with the fundamental requirements of democratization and EU integration (political and economic).
3. Contribution to the education reform process in Bosnia and Herzegovina through the implementation of interdisciplinary studies of the II and III cycles established on the principles of the European area of higher education and scientific research.
4. Development of interdisciplinary and multidisciplinary programs of lifelong learning, as well as additional and specialist education intended to match the needs of the labor market.
5. Contribution to the development of the knowledge society in Bosnia and Herzegovina through the implementation and promotion of scientific research work based on the integration and synthesis between scientific disciplines and the discovery of specific scientific areas in need of an interdisciplinary approach.

1.2. The reason for starting the II cycle program - master's study

The University of Sarajevo follows trends in higher education based on science, social needs and technology development. Bearing in mind that new, digital technologies change the regulatory framework every day, both nationally and globally, of social, political and economic relations (*emerging technologies*), there is a need to study this phenomenon (and) in Bosnia and Herzegovina. Digital technologies are reshaping the mentioned relations, but since the law is conservative in principle and the development of social relations is faster than the reaction of the legislator, it is necessary to invest maximum efforts in realizing the amortization of the negative effects that disordered legal and economic relations inherently produce. The proposed interdisciplinary program of the II cycle in the broadest sense addresses the challenges in the regulation of legal and

economic relations that arise in the conditions and due to the impact of digital technologies in Bosnia and Herzegovina. In a narrower sense, the subject of study of this program is the influence of digital technologies on transformations in the legal arrangement of mutual relations between individuals/natural persons, legal entities and the state. In this regard, this program of the II cycle aims to combine legal, economic and technological knowledge to the extent that it will enable a holistic view of this impact with the aim of understanding and anticipating the effects it will have on the economy/business and on specific legal solutions. This complex and progressively growing matter can only be viewed through an interdisciplinary and dynamic approach, through different experiences and perspectives that the teacher and guest lecturers bring to the classroom, and through joint work in an interdisciplinary group of students.

1.3. Assessment of the importance of studies with regard to the needs of the labor market in the public and private sector

The program is intended for participants who want to master the understanding of current and future legal regulations of digital technologies in the economy and society, as well as the management of digital infrastructure and applications.

Special attention is paid to the approach to the normalization of relations in society and the state, which in the new, digital environment receive a different treatment than in their traditional understanding. The impact of new technologies is inevitable and unstoppable in all economic activities, business of private and public law entities and in general in the functioning of the state apparatus. In this regard, during the studies, students develop specific academic and practical skills through the application of interdisciplinary teaching methods as the only possible approach in generating a workforce trained to work in the conditions dictated by new technologies. In a broader sense, this program contributes to the development of higher education with the aim of realizing the strategic goals of the development of the Canton of Sarajevo.

1.4. Compliance of the program with the mission of the University and the strategy of the proposer of the study program, as well as with the current strategic document of the University

The interdisciplinary program of the II cycle "Law and Digital Technologies" was conceived in accordance with the requirements of the unstoppable development of digital technologies that affect social relations in the broadest sense every day. Bearing in mind that the basic mission of higher education, defined by the Law on Higher Education, is the creation, improvement, dissemination, and acquisition of knowledge, skills, and competencies, which is achieved through the activity of education and research, the set goal of the mentioned study program corresponds with the set mission. In a broader sense, the duty of actors of higher education to develop the so-called "third mission" implies the responsible assumption of the role of a leader in the creation of a modern society through a combination of service and advocacy in the community, all with the aim of achieving a high degree of involvement of all interested social groups, as well as reaching global goals of sustainable development. Studying the impact of digital

technologies on transformations in the legal regulation of mutual relations between individuals/natural persons, legal entities and the state represent an important segment in achieving the stated mission. The special general and public interest of the activities of higher education and the University of Sarajevo for the Canton of Sarajevo is apostrophized in the Law on Higher Education as their essential determinants. The general and public interest is reflected in the rule of law, i.e. the protection of legal security for all participants in the market whose volatility today is largely determined by the development and application of new technologies. The interdisciplinary program of the II cycle "Law and Digital Technologies" meets the criteria of the strategy for the development of scientific research work at the University since its intended goals encourage scientific excellence and relevance through the specialization of knowledge in specific/targeted areas. The creation of new knowledge is the strategic goal of the development of scientific research work at the University of Sarajevo. Studying the interrelationship of law and economics under the influence of new technologies through an interdisciplinary approach is one of the prerequisites for achieving this goal.

1.5. Comparability of the study program with programs of accredited related study programs in Bosnia and Herzegovina and the countries of the European Union

Comparable programs in the countries of the European Union are:

1. Title: LL.M. Law in a Digital Economy

University: Catholic University of Portugal

Credits: 60 ECTS

Duration: 2 semesters

2. Title: Law and Digital Technologies (Advanced LL.M.)

University: University of Leiden

Credits: 60 ECTS

Duration: 2 semesters

3. Title: LL.M. Digital Law and Technology

University: Catholic University of Lyon

Credits: 60 ECTS

Duration: 2 semesters

4. Title: Law and Technology

University: University of Tilburg

Credits: 60 ECTS

Duration: 2 semesters

5. Title: Master of Intellectual Property & ICT Law

University: KU Leuven

Credits: 60 ECTS

Duration: 2 semesters

1.6. Possibilities of student mobility in the domestic and international areas of higher education

In order to meet the expectations of all the mentioned target groups, the courses were carefully formulated and chosen, and the legal, technological, and business, i.e. economic segments were carefully balanced within the course structure. The program enables vertical mobility to students who have completed 240 ECTS (1+1 program) during their previous education.

1.7. Connection with the social community

The Master's study "Law and Digital Technologies" plays a key role in connecting the academic community with the social community in Bosnia and Herzegovina. This program is based on the understanding of the fact that digital technologies continuously affect the regulatory framework and economic and legal relations in society and that it is necessary to adequately regulate these changes in order to prevent negative effects.

The study program "Law and Digital Technologies" is interdisciplinary and includes knowledge from law, economics, and technology, which enables a holistic view of the impact of digital technologies on society. Through this program, students will have the opportunity to acquire knowledge that will enable them to participate in the process of regulating digital technologies in Bosnia and Herzegovina and to help ensure that these technologies are used in a way that will best suit the needs of society.

In addition, this program will also enable students to acquire internationally relevant knowledge, which will enable them to more easily integrate into the labor market and to participate in solving complex problems arising from the use of digital technologies.

In short, the master's study "Law and Digital Technologies" has a key role in connecting the academic community with the social community, and in ensuring that digital technologies are used in a way that will best suit the needs of society.

1.8. Compliance with the requirements of professional associations

The Master's study program "Law and Digital Technologies" is aligned with the requirements of professional associations, such as associations of lawyers, economists, and IT associations. This program is based on interdisciplinary cooperation, which means that the perspectives of all relevant professions are respected. The program focuses on researching the impact of digital technologies on the transformation of the legal system in Bosnia and Herzegovina.

Legal associations are interested in studying how digital technologies affect legal relationships, as well as in developing new legal solutions that will ensure that human rights and freedoms are protected in the digital world. Also, legal associations support the creation of clearer regulatory frameworks that will ensure that digital technologies are used in an ethical and responsible manner.

Economic associations are also interested in this program, given that digital technologies have a huge impact on the economy and business. This program will enable students to understand how digital technologies are changing economic relationships and how they can adapt to these changes in order to achieve economic gains.

IT associations support this program because of its focus on the application of technology in a legal and economic context. This program will enable students to learn how digital technologies are applied in practice and how they can be used to solve legal and economic challenges.

Overall, the Master's study program "Law and Digital Technologies" is aligned with the requirements of all relevant professional associations and enables students to gain a broad understanding of the impact of digital technologies on law and economics.

1.9. Potential partners outside the higher education system

Partnership cooperation between the institutions participating in the implementation of the program is supplemented with workshops conducted by institutions and business organizations that are formally outside the higher education system.

2. GENERAL

2.1. Name, proponent, level, aim of study

The name of the study program is "Law and Digital Technologies".

The proponent of the studies is the University of Sarajevo, which entrusts the organization to the Center for Interdisciplinary Studies, and the implementation of the studies to teachers and associates from the Faculty of Law, Economics and Electrical Engineering of the University of Sarajevo, experts from practice and other partner institutions and organizations from BiH and abroad.

The level of study is the 2nd cycle – master's degree.

The goal of the studies is the education of graduates and professionals from the target groups with at least first cycle of studies (240 ECTS) in social, technical, biotechnical and biomedical fields completed.

The target groups for this study are employees and those who intend to work in:

- IT companies in top and middle management positions;
- Marketing agencies;
- Judicial institutions;
- Lawyers' offices;
- Legislative bodies;
- Public administration;

- Regulatory bodies;
- Health institutions in top and middle management positions;
- Researchers and lecturers at universities.

2.2. Scientific/artistic Areas the Study Programme Belongs to

The study programme "Law and Digital Technologies" is an interdisciplinary study programme that incorporates the scientific areas of legal, economic and technical sciences and therefore, the professors responsible for the courses come from the faculties of the University of Sarajevo which correspond with these areas.

Along with the responsible professors, there are other instructors involved in the teaching process and they come from the University of Sarajevo or appear as guest lecturers from universities in the region and broader, as well as experts from practice in workshops that are an integral part of the Study Program of the II cycle "Law and Digital Technologies".

2.3. Organization and duration of the study program, as well as the minimum number of ECTS points required to complete the studies

The second cycle study program lasts one year (two semesters) with a total of 60 ECTS points. Students must complete their studies within two years. A candidate who does not complete their studies within the given period is dealt with in accordance with the guidelines specified in the Law.

Teaching is organized in the form of lectures, theoretical and practical exercises, seminar papers, seminars, and consultations and lasts two semesters. Teaching takes place within the infrastructural and other capacities of the University of Sarajevo with the possibility of involving external experts. Teaching activities are also carried out through workshops. This represents a novelty at the University of Sarajevo, stronger interdisciplinary, attractiveness and relevance of studies in today's time.

In accordance with the European ECTS credit transfer system, the scope of the study program is 60 ECTS points in one study year, i.e. 30 ECTS points in one semester. The number of study points for a particular subject is determined according to the student's total workload (theoretical and/or practical classes, exercises, seminars, etc.), the time the student works on independent tasks (homework, projects, seminar papers,...) and the time for studying during preparation for the knowledge test (tests, final exam).

The final thesis is evaluated with 13 ECTS points. The study can be organized in a hybrid form, in a way that the classes and exams can be conducted online or with the help of technical tools that ensure the possibility of organizing classes remotely.

2.4. Language of instruction

Languages of instruction are Bosnian/Croatian/Serbian and/or English.

2.5. Adequate and transparent selection procedures for enrollment in the study program

Student status is acquired by enrolling in a study program implemented by the Center for Interdisciplinary Studies of the University of Sarajevo. Enrollment is done on the basis of a public call published by the University, which is decided by the Senate of the University. Enrollment in the first study year is carried out in accordance with the Law, the Statute, and valid rules and based on the final results of the public call. The optimal number of students who can enroll in the course is 20 students, that is, the decision on the final number is made by the Council of the Center.

Candidates who have completed the first cycle of studies with at least 240 ECTS or completed at least a four-year study according to the pre-Bologna curricula have the right to enroll in the second cycle.

The determination of the unique ranking list of all registered candidates will be based on the completed 1st cycle of studies, i.e. the four-year pre-Bologna study, and the average grade achieved by the candidates during their studies. The preliminary ranking list of all accepted and applied candidates will be published by the Center for Interdisciplinary Studies of the University of Sarajevo on the website and bulletin board after it has been verified by the competent authority no later than two days after the deadline for submitting applications to the competition. Candidates have the right to object to the ranking list of received candidates within three days from the date of publication of the said list. Upon objection, the competent body of the Center for Interdisciplinary Studies of the University of Sarajevo must make a decision within three days. The decision of the Council of the Center is final (Study Rules for the I, II study cycle, integrated, professional, and specialist studies at the University of Sarajevo, Article 7). The enrollment committee submits the final report on student enrollment results to the Center Council, which adopts the final ranking list.

2.6. Qualifications upon completion of the programme

After passing all the exams listed in the Curricula and defending the Final Thesis; after acquiring the full, required number of ECTS credits, and after finishing the studies, the student gets the academic title of Master of Law and Digital Technologies.

2.7. The Analysis of employment possibilities after graduation

The awarded diploma ensures that the holders can perform professional work in the field of the title assigned to them. The target group for this study are employed professionals who deal with the fields of law, economics and digital technologies in their daily work and their mutual influence and connection, which is growing in modern business conditions.

2.8. The programme's vertical mobility

According to Article 1, paragraph (3) of the Study Rules for the I, II cycle of studies, integrated, professional, and specialist studies at the University of Sarajevo, the second cycle leads to the degree of Master or equivalent after the completion of the first cycle of studies; it lasts one or two study years, and is evaluated with 60 or 120 ECTS points so that in total with the first study cycle, it carries 300 ECTS points, which ensures vertical mobility for enrollment in the third study cycle.

2.9. Grading Scale

Each individual course syllabus contains the grading scale, in accordance with the goals and outcomes of the course.

2.10. Quality Assurance

The quality and success of the studies will be monitored by internal and external observation and evaluation by the official committee and students, as explained at the end of this document.

3. PROGRAMME DESCRIPTION

3.1. Learning outcomes at the study programme level

Learning outcomes at the level of the study program are defined in accordance with the demands of the labor market, the needs for continuous education, the rapid development of new technologies, and the challenges brought by the social and economic community. Learning outcomes are aligned with general societal needs and the qualification framework standards expressed through the following knowledge, skills, and competencies (professional values and personal responsibility):

Knowledge:

- Understanding regulatory frameworks governing digital technologies, including international and national laws, regulations, and policies;
- Familiarity with legal, economic, and ethical issues arising from the use of digital technologies, including privacy, security, intellectual property, and human rights;
- Understanding and critically analyzing ethical and legally permissible behavior on the internet/online space;
- Understanding the application of traditional concepts in a new digital environment, such as human rights, ethics, business, property, contract, signature, government, management, risk, auditing, accounting, and dispute resolution from the perspectives of law, economics, and software solutions;

- Defining and analyzing legal problems arising in social relationships in the digital environment and under the influence of new technologies and identifying solutions based on existing regulations.

Skills:

- Using digital technologies, including data structures, algorithms, and software engineering;
- Analyzing and evaluating legal issues and acts related to digital technologies, such as online contracts, cybercrime liability, and digital identity;
- Integrating legal, economic, and technical knowledge to develop innovative solutions to complex issues related to digital technologies;
- Understanding the value chain in digital products and on digital markets;
- Understanding the principles of new technologies such as artificial intelligence, block chain, cloud computing, etc.;
- Understanding innovation and risk management in technology companies;
- Understanding the legal and economic approach in IT activities as specific to other industries;
- Understanding the transformation of business operations of economic entities and society as a whole under the influence of digital technologies, including e-governance in the public sector, crypto-economy, digital contracts, and profiling of personal data;
- Preparing legal solutions in the context of new technologies based on previous knowledge by analogy to avoid unregulated areas (civil and criminal law aspects);
- Ability to work in practice to solve legal problems arising from the application of digital technologies through an interdisciplinary approach (legal, economic, and technological).

Competencies (professional values and personal responsibility):

- Adapting to the challenges of business and market operations in the digital environment;
- Ethical awareness and the ability to recognize and solve ethical issues related to the use of digital technologies;
- Willingness to think critically and make decisions to solve legal challenges related to digital technologies
- Collegial skills for effective work in interdisciplinary teams with legal and technical professionals;
- Awareness of social and cultural implications of digital technologies, including their impact on human rights, democracy, and social justice.

3.2. The list of obligatory and elective courses

Table 1 shows the list of courses with ECTS load and hours. The syllabuses (SP2 form) are attached at the end of the Elaborate.

Table 1. Study plan "Law and digital technologies"

Year/ Semester	Course	Status	ECT S	Hours
1/I				
1.	Regulatory framework for digital technologies	mandatory	5	30
2.	Intellectual property law and personal rights in the digital environment	mandatory	5	30
3.	Digital business transformation	mandatory	5	30
4.	Security of digital information	mandatory	5	30
5.	Elective course	elective	4	20
6.	Elective course	elective	4	20
7.	Interdisciplinary workshop Case study - technology in legal proceedings	mandatory	2	20
Overall			30	180
1/II				
1.	Artificial Intelligence and Law	mandatory	5	30
2.	e-Government	mandatory	5	30
3.	Elective course	elective	4	20
4.	Interdisciplinary Workshop IT Project Audit	mandatory	2	20
5.	Interdisciplinary Workshop Methodology of Thesis Writing	mandatory	1	10
	Thesis writing		13	
Overall			30	110
Overall			60	290

	Interdisciplinary workshops	Sati P+V
1.	Case study - technology in legal proceedings	20
2.	IT Project Audit	20
3.	Methodology of Thesis Writing	10

	Elective courses - list	Sati P+V
1.	Digital property	20
2.	Implementation of IT projects and law	20
3.	Law and digital content	20
4.	IT risk management	20
5.	Digital technologies and ethics	20
6.	Fraud prevention and forensic accounting	20

3.3. Information about the programme's structure and the requirements for enrolment in the next semester

In the application of the European Credit Transfer System (ECTS) in the master's study proposal "Law and Digital Technologies", the starting point is the agreement, accepted throughout the European area of higher education, that the work required to master one academic year of study amounts to 60 ECTS points. The student gets 47 ECTS points from the organized classes, and 13 ECTS points from the work on the final paper.

The program consists of 6 mandatory courses, 3 elective courses, 3 interdisciplinary workshops, and the creation and defense of a Master's thesis (final thesis).

The first semester includes 4 mandatory courses, 2 elective courses, and one interdisciplinary workshop with a total of 30 ECTS. The second semester includes 2 mandatory courses, 1 elective course, and 2 interdisciplinary workshops with a total of 17 ECTS, as well as a final master's thesis with 13 ECTS.

3.4. The list of elective courses offered at other study programmes and the requirements for their selection

A student cannot choose a subject (mandatory or optional) from another study program, since the learning outcomes of this study program cannot be realized in that case.

3.5. Completion of the Programme

II cycle - Master's study ends with passing all exams and writing the final thesis.

The mentor for the preparation of the final thesis is proposed by the candidate based on the mentor's interests and field. The topic of the thesis must be related to the field of interdisciplinary study. Possible topics for the final thesis are suggested by the subject lecturer. Additionally, students can be approved for a final thesis topic that they propose independently, with prior consultation with the lecturer with whom they want to do the final thesis.

The mentor can also be a lecturer who did not teach in the second cycle of study, but the topic is related to the study. The proposed lecturer should have adequate knowledge and

competence to be a mentor. The mentor is approved by the Council of the Center. The application for the topic is submitted in the prescribed form. After accepting the topic at the Council of the Center, the Council appoints the Commission for the evaluation and defense of the thesis. Members of the Commission can be lecturers with titles ranging from assistant professor to full professor. As a rule, the commission has a president and two members, or their deputies. One of the commission members is also a mentor.

All the other issues pertaining to the organization of the classes and the study programme – the students' rights and obligations, application process and the enrolment – shall be regulated by the Law, the Statutes, the Rules for the First and the Second Cycle, the Integrated Study Programmes, Professional and Specialist Study Programmes at the University of Sarajevo.

3.6. Description of each subject in the study program

Information about each subject is provided on syllabus forms, which are attached (subject name, level, ECTS credits, number of hours, subject status, study year, semester, prerequisite subjects if applicable, subject description and objectives, expected learning outcomes in terms of knowledge, skills, competencies, thematic units to be covered, teaching methods, assessment methods, required and additional literature).

4. Section of the elaboration requiring additional supporting documentation in accordance with the Rulebook on the Procedure of Proposing, Evaluating, Adopting, and Amending New and Existing Study Programs and Syllabi at the University of Sarajevo.

4.1. Engaged teaching staff - article 5 (documentation on personnel requirements)

The proponent of the programme is University of Sarajevo, which entrusts the organization to the Center for Interdisciplinary Studies, and the implementation of the studies to teachers and associates from the Faculty of Law, Economics and Electrical Engineering of the University of Sarajevo, experts from practice and other partner institutions and organizations from BiH and abroad. (Attachment: documentation on engaged teaching staff).

4.2. Study venues - Article 6 (Documentation on spatial conditions and equipment)

The proponent of the programme, University of Sarajevo, entrusts the organization to the Center for Interdisciplinary Studies, which will provide administrative-technical support and make its premises available. The capacities are:

- Two large halls with a capacity of up to 80 participants each, equipped with conference chairs.
- Two small halls with a capacity of up to 40 participants each.

The center also has one interpretation booth for simultaneous translation, along with accompanying equipment including a microphone, projection screen, three projectors, and three laptops.

Table 2. Data on the Study Venue

Address	Zmaja od Bosne 8, University Campus
Total area	700 m ²
Lecture halls/classrooms	4 (total area 279 m ²)
Office space	12 (total area 178 m ²)
Library	1 (65 m ²)
Reading hall	1
Other facilities	Hall, kitchen (1), restrooms (6), archive (1), (total area 243 m ²)
Technical equipment and teaching aids	Server (1), computers (20), smart board (2), laptops (5), projectors (4), printers (6)

4.3. Quality Assurance - Article 8. (Content of the Quality Assurance Plan)

According to European standards and guidelines for internal quality assurance in higher education institutions¹, which form the basis for the University of Sarajevo's procedures for quality improvement and management, the Center is required to develop a quality assurance plan for the study program. The quality and success of the program are monitored at the overall study level and fall under the responsibility of the Center's Council. Continuous evaluation of teaching delivery is conducted following a procedure implemented during the second cycle of studies.

4.4. Documentation on which the quality assurance system is based

Quality assurance and internal control of the work of higher education institutions and the implementation of study programs are addressed by the Law on Higher Education of the Sarajevo Canton, the Statute of the University of Sarajevo, and other relevant legal acts of the entities responsible for this study program.

4.5. Tools for quality assurance and improvement

During the study implementation, the following tools are planned for quality assurance and improvement:

- Evaluation of program content and delivery methods.
- Evaluation of teachers by students.

¹ Standards and guidelines for internal quality assurance in higher education institutions (ESG)
<http://www.hea.gov.ba/Dokumenti/Bolonja/?id=6150>

- Evaluation of the implementation plan and program by participating teachers.
- Consideration of effectiveness and critical elements after the completion of the first generation of the study program.
- Analysis of pass rates in exams.
- Analysis of graduation success rates.
- Analysis/evaluation of resources for the learning and teaching process.

4.6. Evaluation of teaching and teachers by students

The purpose of student evaluation of teaching and teachers is to gain insight into the quality of teaching and the work of each individual teacher, and based on the obtained ratings, determine measures for improvement and enhancement of the teaching process. Student evaluation of teaching and teachers will be conducted in accordance with the Regulation on Student Evaluation of the Work of Academic Staff and the Effectiveness of the Implementation of Teaching Plans and Programs at the University of Sarajevo².

Surveys (evaluation of the work of academic staff) will be conducted on a semester basis in accordance with the Law, Statute of the University, and the Regulation.

4.7. Monitoring of grading and student pass rates within the study

The criteria and procedures for student grading are clearly defined and transparent, in accordance with the Law, Statute of the University, and Study Regulations for the first and second cycles of study, integrated, professional, and specialist study programs at the University of Sarajevo. Through continuous data collection via the information system, an analysis of student success, pass rates, and progression will be conducted.

4.8. Evaluation of the availability of resources for the learning and teaching process

- Periodic evaluation of material and technical resources, library holdings, etc.
- Planning investment of finances in resources to enhance work efficiency.

4.9. Description of procedures for informing the public about the study program

Informing the public about the study program is carried out through:

- Information package about the study program (curriculum, learning outcomes, etc.).
- Public exams.
- Public defense: seminar papers, final project, and working version of the final thesis.
- Public defense of the final thesis.

² <http://www.unsa.ba/sites/default/files/dodatak/2018-12/Pravilnik%20evaluacija%20ak.%20osoblja.pdf>

4.10. Cost Assessment per student - Article 7 (Documentation of financial resources for implementing the study program)

The proposal is that the price of the second cycle program "Law and Digital Technologies" amounts to 10,000 BAM (convertible marks) per student. The study cost is in accordance with the Decision of the Canton Government on approving the participation fee, service fees, enrollment fees, and other study costs at the University of Sarajevo. It also considers the characteristics of the study, its interdisciplinary nature, quality, and the involvement of faculty members and collaborators from multiple faculties, as well as guest lecturers from abroad in the teaching process, with the Center for Interdisciplinary Studies serving as the organizer. The payment schedule is tied to payment per semester, amounting to 5,000 BAM.

The cost calculation elements of this study are based on the total number of instructional hours of the study and the cost per hour expressed in BAM. This implies that the cost structure is composed of the total number of instructional hours across all semesters. For semesters where the study is not expressed in terms of the number of instructional hours, a proposed working number of hours will be included in the cost calculation proposal.

Considering the above, the following calculation elements are proposed:

- I SEMESTER:
 - 4 courses x 30 hours = 120 hours
 - 2 courses x 20 hours = 40 hours
 - 1 workshop x 20 hours = 20 hours

- II SEMESTER:
 - 2 courses x 30 hours = 60 hours
 - 1 course x 20 hours = 20 hours
 - 1 workshop x 20 hours = 20 hours
 - 1 workshop x 10 hours = 10 hours
 - Preparation and defense of the final thesis

Total number of instructional hours for the entire study = 290 hours

4.11. External reviews - Article 3.

The second-cycle study program "Law and Digital Technologies" has received positive evaluations from two external reviewers, namely:

1. Prof. Dr. Mateja Đurović, King's College London, UK
2. Prof. Dr. Stevan Gostojić, University of Novi Sad, Faculty of Technical Sciences

The review texts are included in the Annex of the Report (Form SP4).

Attachments to the Elaboration:

Attachment 1: Syllabi (Form SP2)

Attachment 2: Two external reviews (Form SP4)

Attachment 3: Guarantee that the study cycle will be completed for the ongoing generation

Attachment 4: Documentation of the engaged teaching staff



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studije

Obrazac SP2

UNIVERZITET U SARAJEVU – Centar za interdisciplinarnie studije – “prof.
dr. Zdravko Grebo”
OPIS predmeta

Stranica 1 od 32

Šifra predmeta: MPDT101	Naziv predmeta: Regulatorni okvir za digitalne tehnologije				
Ciklus: II	Godina: I	Semestar: I	Broj ECTS kredita: 5		
Status: obavezni		Ukupan broj sati: 30 Predavanja 20 Vježbe 10			
Učesnici u nastavi	Nastavnici i saradnici izabrani na oblast kojoj predmet pripada				
Preduslov za upis:	/				
Cilj (ciljevi) predmeta:	Upoznati studente sa osnovama pravnog okvira u okviru kojeg se razvoj i djelovanje tehnologije nalazi.				
Tematske jedinice:	<ul style="list-style-type: none">- institucionalni okvir za regulaciju tehnologije i osoba- osnovi digitalne imovine- pravo intelektualnog vlasništva i tehnologije- digitalni potpis, elektronski dokument i e-uprava				
Ishodi učenja:	<p>Znanje:</p> <ul style="list-style-type: none">• Razumjeti ulogu države u regulaciji tehnologije• Razumjeti ulogu međunarodnih organizacija u regulaciji tehnologije• Steći osnovna znanja o funkcionisanju ukupnog pravnog okvira u Bosni i Hercegovini koji je relevantan za tehnologiju• Steći znanja o vodećim trendovima u svijetu i regionu u pogledu regulacije tehnologije <p>Vještine:</p> <ul style="list-style-type: none">• Uočiti pravne probleme koji nastaju u primjeni tehnologije• Formulisati pravnih problema koji nastaju u vezi sa novim tehnologijama• Prepoznati rješenja koja su u prošlosti primijenjena kako bi se prevazišli pravni problemi u cilju analogne primjene <p>Kompetencije:</p> <ul style="list-style-type: none">• Biti sposoban za rad u praksi na rješavanju pravnih problema koji nastaju u vezi sa tehnologijom				

Metode izvođenja nastave:	Predavanja, seminari
Metode provjere znanja sa strukturu ocjene:	<ul style="list-style-type: none">• Završna provjera znanja: 50%• Drugi oblici provjere znanja (seminar, praktična vježba, zadatak, grupni rad, esej i drugi oblici): 40%• Aktivnost u nastavi: 10% <p>0-55(5), 55-64(6), 65-74(7), 75-84(8), 85-94 (9), 95-100 (10)</p>
Literatura:	<p>Obavezna:</p> <ul style="list-style-type: none">• Black J, et al (urednici), Regulatory Innovation: A Comparative Analysis, Cheltenham: Edward Elgar (2005)• Bennett Moses, L, How to Think about Law, Regulation and Technology: Problems with ‘Technology’ as a Regulatory Target (2013), Law, Innovation and Technology, 5:1, 1-20• Frank H. Easterbrook, Cyberspace and the Law of the Horse, University of Chicago Legal Forum, (1996). <p>Dopunska:</p> <ul style="list-style-type: none">• Bennett Moses L, Agents of Change (2011), Griffith Law Review, 20:4, 763-794• Black J, et al, Risk regulation and transnationality: institutional accountability as a driver of innovation' Transnational Environmental Law (2014), 3(2), pp.373-390• Lloyd, I. J., Information technology law, 8th ed., Oxford, University Press (2017).• Lessig, L., Code, 2nd ed., New York, BasicBooks (2006).

Šifra predmeta: MPDT102	Naziv predmeta: Pravo intelektualnog vlasništva i lična prava u digitalnom okruženju				
Ciklus: II	Godina: I	Semestar: I	Broj ECTS kredita: 5		
Status: obavezni		Ukupan broj sati: 30 Predavanja 20 Seminar 10			
Učesnici u nastavi	Nastavnici i saradnici izabrani na oblast kojoj predmet pripada				
Preduslov za upis:	/				
Cilj (ciljevi) predmeta:	Upoznati studente sa izazovima koje za zaštitu pojedinih ličnih prava i prava intelektualnog vlasništva predstavlja tehnologija.				
Tematske jedinice:	<ul style="list-style-type: none">• značaj prava na privatnost u digitalnom svijetu• lični podaci i njihova uloga i značaj• pravo na privatnost i krivičnopravna odgovornost• pravo na privatnost i građanskopravna odgovornost• pravo na privatnost i ljudska prava• mjere za zaštitu prava na privatnost (npr. privacy by design)• zaštita časti i ugleda u digitalnom okruženju• umjetna inteligencija, privatnost i lična prava• uticaj razvoja tehnologije na nastanak i transformaciju pojedinih prava intelektualnog vlasništva• pravo žiga u digitalnom okruženju (domain name hijacking, cybersquatting i keyword marketing)• patentno pravo u digitalnom okruženju (softverski patenti)• autorsko pravo u digitalnom okruženju (Direktiva o informacijskom društvu, digitalizacija kulturnog nasljeđa, Google Book projekat i djela siročadi)• prava intelektualnog vlasništva i Jedinstveno digitalno tržište EU• umjetna inteligencija (AI) i prava intelektualnog vlasništva				
Ishodi učenja:	<p>Znanje:</p> <ul style="list-style-type: none">• Razumjeti pojam i značaj prava na privatnost• Razumjeti pojam i značaj ličnih podataka danas, a naročito u digitalnom okruženju• Razumjeti izazove za lična prava u digitalnom okruženju• Razumjeti izazove za zaštitu časti i ugleda u digitalnom prostoru				

- Razumjeti značaj prava intelektualnog vlasništva kao katalizatora tehnološkog napretka.
- Razumjeti ulogu tehnološkog razvoja i napretka u kreiranju i razvoju sistema zaštite intelektualnog vlasništva na nacionalnom i međunarodnom nivou.
- Steći osnovna znanja o funkcionisanju pravnog okvira u Bosni i Hercegovini koji je relevantan za regulaciju prava na privatnost
- Steći znanja o vodećim trendovima u svijetu i regionu u pogledu regulacije prava na privatnost
- Steći posebna znanja o tome, kako su digitalne tehnologije uticale na pojedina prava intelektualnog vlasništva (žigove, patente i autorsko pravo)

Vještine:

- Uočiti pravne probleme koji nastaju uslijed interakcije digitalnih tehnologija i prava intelektualnog vlasništva, prava na privatnost i ličnih prava
- Formulisati pravne probleme koji nastaju u vezi sa novim tehnologijama
- Prepoznati rješenja koja su u prošlosti primjenjena kako bi se prevazišli pravni problemi u cilju analogne primjene
- Prepoznati mogućnosti pružanja zaštite intelektualnog vlasništva, prava na privatnost i ličnih prava
- Prepoznati prisutne trendove na međunarodnom nivou, a naročito u EU

Kompetencije:

- Osposobiti se za rad u praksi na rješavanju pravnih problema koji nastaju uslijed primjene tehnologije za pravo na privatnost, pravo intelektualnog vlasništva i lična prava

Metode izvođenja nastave:

Predavanja, seminari

Metode provjere znanja sa strukturu ocjene:

- Završna provjera znanja: 50%
- Drugi oblici provjere znanja (seminar, praktična vježba, zadatak, grupni rad, esej i drugi oblici): 40%
- Aktivnost u nastavi: 10%

0-55(5), 55-64(6), 65-74(7), 75-84(8), 85-94 (9), 95-100 (10)

	<p>Obavezna:</p> <ul style="list-style-type: none">• Purtova, N., The Illusion of Personal Data, Law, Innovation and Technology, Vol. 7, No. 1, 2015• Purtova, N., Do property rights in personal data make sense after the Big Data turn? Individual control and transparency, Journal of Law and Economic Regulation Vol. 10 2, 2017• Elvy, S.-A., Commodifying Consumer Data in the IoT Era, Boston College Law Review, 2018• Rule J., Hunter, L., Towards Property Rights in Personal Data, in: J. Bennett, C. J. Grant, R., Visions of Privacy: Policy Choices for the Digital Age, University of Toronto Press 1999• Lazaro, C., Le Metayer, D., Control over personal data: true remedy or fairy tale? (2015) 12 SCRIPTe• Hazel, S., Personal Data as Property, Syracuse Law Review, Forthcoming• Malgieri, G., Property and (Intellectual) Ownership of Consumers' Information: A New Taxonomy for Personal Data' (2016) 4 Privacy in Germany PinG• Muftić, N., Treating personal data as property: A solution for digital world?, Pravni zapisi, Union University Law School Review, PROPERTY LAW – CHALLENGES OF THE 21st CENTURY Proceedings International Scientific Conference, 2021.• Friedewald, M. i Pohoryles R. (urednici), Privacy and Security in the Digital Age: Privacy in the Age of Super-Technologies 1st Edition, Routledge, 2014.• Rosati, E., Copyright in the Digital Single Market Article-by-Article Commentary to the Provisions of Directive 2019/790, Oxford University Press, 2021• Aplin, T. (Ed.), Research Handbook on Intellectual Property and Digital Technologies, Edward Elgar Publishing, 2020.• Taplin, R. , Artificial Intelligence, Intellectual Property, Cyber Risk and Robotics: A New Digital Age (Routledge Studies in the Growth Economies of Asia), Routledge, 2022.• Lee, J-A., Hilty, R., K-C, Liu (Eds.), Artificial Intelligence and Intellectual Property, OUP Exfod, 2021• Mešević, I.R., “Protection of the concept of copyright law in the era of digital technologies (Review on the Directive of the European Parliament and the Council on some aspects of copyright and related rights in the information society)”, Yearbook of 4 Faculty of law in
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Sarajevo/Godišnjak Pravnog fakulteta u Sarajevu, No.
47/2004;

Dopunska:

- Keller, P., The reconstruction of privacy through law, International Data Privacy Law, 2019, Vol. 0, No. 0
- Banta, N. M., Property Interests in Digital Assets: The Rise of Digital Feudalism, 38 CARDOZO L. REV. 1099 (2017)
- Evans, J. B., Much Ado About Data Ownership (2011) 25 Harvard Journal of Law and Technology 69
- Jerry Kan J., Buchner B., Privacy in Atlantis (2004) 18 Harvard Journal of Law and Technology 229, 260;
- Murphy, R. S., ‘Property Rights in Personal Information: An Economic Defence of Privacy’, (1996) 83 Geo. L.J. 2381
- Lynskey, O., The Foundations of EU Data Protection Law, Oxford University Press, 2015.
- Rule, J. B., Privacy in Peril, (OUP 2007).
- Hijmans, H., The European Union as Guardian of Internet Privacy - The Story of Art 16 TFEU, Springer, 2016.
- Frankel, S., Gervais, D. The Internet and the Emerging Importance of New Forms of Intellectual Property (Information Law Series Set Book 37), Kluwer Law International, 2016.
- Silbey, J. Against Progress: Intellectual Property and Fundamental Values in the Internet Age, Stanford University Press, 2022.

Šifra predmeta: MPDT103	Naziv predmeta: Digitalna transformacija poslovanja				
Ciklus: II	Godina: I	Semestar: I	Broj ECTS kredita: 5		
Status: obavezni		Ukupan broj sati: 30 Predavanja 24 Seminar 6			
Učesnici u nastavi	Nastavnici i saradnici izabrani na oblast kojoj predmet pripada				
Preduslov za upis:	/				
Cilj (ciljevi) predmeta:	Cilj ovog kursa je da se polaznici upoznaju sa digitalnom transformacijom poslovanja u svjetlu svjetlu tempa promjena i imperativa koje ona stvara za kompanije. Kurs pruža kontekst za ovu transformaciju i obrađuje sve ono što je potrebno za pobjedu u digitalnom dobu praćeno okvirom koji pomaže da se identificiraju ključna područja za digitalizaciju, uključujući strategiju, ključne procese i tehnologiju. Polaznici će imati priliku da kritički razmatraju osnovnu ekonomiju inovacija, tehnologije i poremećaja na tržištu uz identifikaciju prednosti i nedostataka trenutnih digitalnih tehnologija koje pokreću napredak.				
Tematske jedinice:	<ul style="list-style-type: none">• Tehnologija i poslovno okruženje, koncepti i osnove• Oblasti IT menadžmenta i njegovi izazovi, IT usluge, i organizacija IT funkcije• Inovacije u kompanijama i digitalna transformacija• Novi poslovni modeli, trendovi razvoja, poslovna konkurentnost zasnovana na tehnologiji• IT strategija, IT upravljanje, IT usluge i kontrola				
Ishodi učenja:	<p>Znanja:</p> <ul style="list-style-type: none">• Kako digitalna transformacija utiče na različite industrije• Kako se digitalni podaci koriste u poslovanju za formulisanje i rješavanje poslovnih problema i za podršku i donošenje menadžerskih odluka• Kako napraviti digitalnu strategiju u eri digitalne transformacije• Kako odabratи prave tehnologije i industrijska rješenja <p>Vještine:</p> <ul style="list-style-type: none">• Demonstrirati poznavanje ključnih inovativnih tehnologija i njihovih implikacija na poslovanje• Identificirati resurse za kontinuirano unapređenje u digitalno osviještenim organizacijama				

Metode izvođenja nastave:	Klasična predavanja, vođene diskusije slučajeva, gosti predavači, samostalan i timski rad na projektnom zadatku.
Metode provjere znanja sa strukturu ocjene:	Aktivnosti: 30 Grupni rad: 30 Završni ispit: 40 Ukupno 100 0-55(5), 55-64(6), 65-74(7), 75-84(8), 85-94 (9), 95-100 (10)
Literatura:	Obavezna: <ul style="list-style-type: none">• Digital Business Transformation: How Established Companies Sustain Competitive Advantage From Now to Next, Nigel Vaz, Wesley, 2021 Dopunska: <ul style="list-style-type: none">• Aktuelni članci i web linkovi dostupni tokom nastave

Šifra predmeta: MPDT104	Naziv predmeta: Sigurnost digitalnih informacija		
Ciklus: II	Godina: I	Semestar: I	Broj ECTS kredita: 5
Status: obavezni		Ukupan broj sati: 30 Predavanja 24 Seminar 6	
Učesnici u nastavi		Nastavnici i saradnici izabrani na oblast kojoj predmet pripada	
Preduslov za upis:		/	
Cilj (ciljevi) predmeta:		Naučiti šta je sigurnost i privatnosti podataka i kako se može štititi	
Tematske jedinice:		<ul style="list-style-type: none">• Uloga sistema za digitalnu obradu informacija u funkcionisanju društva. Posljedice ugrožavanja sigurnosti ovih sistema po cijelokupno društvo.• Osnovni pojmovi: Sigurnosne politike, ekonomski aspekti sigurnosti, upravljanje rizikom• Obaveza zaštite sigurnosti informacija i odgovornosti• Ljudski faktor: Društveni (<i>social</i>) inženjering, <i>phishing</i> i drugi oblici prevara, upotrebljivost, sigurnosno obrazovanje i osvještavanje korisnika• Potvrđivanje identiteta (<i>authentication</i>): Proces i metode, utvrđivanje odgovornosti• Zlonamjerni softver: načini rada, načini širenja, zloćudno djelovanje• Digitalna forenzika• Nadzor i privatnost (zaštita ličnih podataka, GDPR)	
Ishodi učenja:		<p>Znanje: Razumijevanje osnovnih principa sigurnosti informacija. Razumijevanje uloge sigurnosti informacija u sigurnosti društva. Poznavanje mogućnosti i ograničenja sistema za zaštitu sigurnosti informacija. Poznavanje najčešćih napada na sigurnost informacija.</p> <p>Vještine: Prepoznavanje opasnosti po sigurnost informacija. Provodenje osnovnih metoda zaštite sigurnosti informacija.</p> <p>Kompetencije: Sposobnost pravne kategorizacije različitih napada na sigurnost informacija. Sposobnost utvrđivanja odgovornosti za ugrožavanje sigurnosti informacija. Postavljanje zadatka digitalne forenzike.</p>	
Metode izvođenja nastave:		Predavanje na tabli uz korištenje multimedijalnih prezentacija po potrebi. Razgovor o aktuelnim pitanjima sigurnosti informacija. Grupna analiza otvorenih pitanja. Prezentacija studentskih seminara i razgovor o njima.	

Metode provjere znanja sa strukturu ocjene:	Aktivno učešće u nastavi 10 Kvizovi 20 Seminar 30 Završni ispit 40 Ukupno 100 0-55(5), 55-64(6), 65-74(7), 75-84(8), 85-94 (9), 95-100 (10)
Literatura:	Obavezna: <ul style="list-style-type: none">• Paul C. van Oorschot, „Computer Security and the Internet: Tools and Jewels from Malware to Bitcoin“, Springer, 2021• Ross Anderson, “Security Engineering”, 3rd edition, Wiley, 2021• Aktuelni materijali i web lokacije dostupne studentima tokom nastave Dopunska: <ul style="list-style-type: none">• Saša Mrdović, “Sigurnost računarskih sistema”, ETF UNSA, 2014

Šifra predmeta: MPDT105	Naziv predmeta: Umjetna inteligencija i pravo				
Ciklus: II	Godina: I	Semestar: II	Broj ECTS kredita: 5		
Status: obavezni		Ukupan broj sati: 30 Predavanja 20 Prezentacije seminarских i diskusije 10			
Učesnici u nastavi	Nastavnici i saradnici izabrani na oblast kojoj predmet pripada				
Preduslov za upis:	/				
Cilj (ciljevi) predmeta:	1) Razumjeti osnovne koncepte vezane za umjetnu inteligenciju. 2) Razumjeti mogućnosti primjene umjetne inteligencije i njene pozitivne uticaje na ekonomiju i društvo. 3) Razumjeti opasnosti koje se mogu pojaviti primjenom umjetne inteligencije bez adekvatnog okvira nadzora. 4) Razumjeti potrebu da se unaprjeđuje pravni sistem kako bi obuhvatio interakciju sistema baziranih na umjetnoj inteligenciji i njihovog okruženja (ljudi prije svega). 5) Razumjeti potrebu da se u nedostatku pravnih propisa primjenjuju najbolje poznate prakse i standardi kako bi se minimizirali eventualni rizici primjene umjetne inteligencije.				
Tematske jedinice:	1) Umjetna inteligencija - osnovni pojmovi; primjene; mogućnosti; trendovi; oblici; proces modeliranja; ... 2) Umjetna inteligencija - objašnjivost i interpretabilnost znanja; opasnosti; iskustva primjene u praksi; otvorena pitanja; standardi; ... 3) EU prijedlog regulatornog okvira za umjetnu inteligenciju - zašto je potreban; pristup baziran na rizicima; ... 4) Uticaj primjene umjetne inteligencije na društvo - potrebe za promjenama u pravnom sistemu; potrebe za promjenama u obrazovnom sistemu; ... 5) Uticaj primjene umjetne inteligencije na ekonomiju - potencijal; potreba da se pravno uredi primjena umjetna inteligencije u ekonomskom prostoru; ubrzani razvoj; ... 6) Obaveze i odgovornosti korisnika i proizvođača sistema baziranih na umjetnoj inteligenciji - bezopasnost sistema po ljudi i okruženje; certificiranje; nadzor nad radom sistema; prava i odgovornosti korisnika; prava i odgovornosti proizvođača; prakse u svijetu; ...				
Ishodi učenja:	Znanje: Razumijevanje bazičnih koncepata umjetne inteligencije. Razumijevanje mogućnosti i opasnosti primjene umjetne inteligencije te potrebe da za to postoji regulatorni okvir.				

	Vještine: Prepoznavanje aspekata primjene umjetne inteligencije koji trebaju biti regulisani. Kompetencije: Sposobnost učestvovanja u definisanju regulatornog okvira za primjenu umjetne inteligencije.
Metode izvođenja nastave:	Predavanja korištenjem pripremljenih multimedijalnih prezentacija (u učionici primjenom projektor-a; po potrebi on-line putem softvera za video poziv). Prezentacije individualnih seminarских radova od strane studenata uz diskusiju sa nastavnikom i drugim studentima.
Metode provjere znanja sa strukturonim ocjene:	<ul style="list-style-type: none">• Završna provjera znanja: 50%• Drugi oblici provjere znanja (seminar, praktična vježba, zadatak, grupni rad, esej i drugi oblici provjere znanja): 40%• Aktivnost u nastavi: 10% <p>0-55(5), 55-64(6), 65-74(7), 75-84(8), 85-94 (9), 95-100 (10)</p>
Literatura:	Obavezna: 1) C. Vanleenhove, J. de Bruyne: Artificial Intelligence and the Law, Mortsel, Intersentia, 2021, ISBN: 9781839701030 2) Evropska komisija: EUR-Lex propisi vezani za umjetnu inteligenciju, dostupno on-line: https://eur-lex.europa.eu Dopunska: 1) CAHAI - Ad hoc Committee on Artificial Intelligence: A LEGAL FRAMEWORK FOR AI SYSTEMS, 2021, Council of Europe Study DGI (2021)04. 2) Charles Kerrigan: Artificial Intelligence - Law and Regulation, Edward Elgar Publishing 2022, ISBN: 9781800371713

Šifra predmeta: MPDT106	Naziv predmeta: e-Government		
Ciklus: II	Godina: I	Semestar: II	Broj ECTS kredita: 5
Status: obavezni		Ukupan broj sati: 30 Predavanja 24 Seminar 6	
Učesnici u nastavi		Nastavnici i saradnici izabrani na oblast kojoj predmet pripada	
Preduslov za upis:		/	
Cilj (ciljevi) predmeta:		Cilj ovog kursa da se polaznici upoznaju sa postulatima elektronskog upravljanja (eng. e-governance) u javnom sektorу. Kurs se zasniva na pretpostavci da su usluge e-uprave zasnovane na ekspanziji IKT u društvu, te da su to usko povezani elementi u razvoju usluga e-uprave. Cilj kursa je da polaznici aktueliziraju i ažuriraju svoje znanje o osnovnim tehnološkim konceptima, pravnom i ekonomskom okviru u kojem funkcioniše e-uprava.	
Tematske jedinice:		<ul style="list-style-type: none">• Konceptualizacije e-upravljanje, e-vlade, e-demokratije i e-participacije (angažmana) građana• Uloga informacijske i komunikacijske tehnologije• Ekonomski okvir za e-vladu, poslovni model e-vlade i uticaj na ekonomiju i društvo• Elektronske usluge u javnom sektoru, privlačenje stranih investicija, poslovni, porezni, finansijski, računovodstveni aspekti• E-zdravlje i e-učenje• Online alati za angažman društva i učešće u procesu kreiranja politika• Izazovi e-uprave• Trendovi e-uprave širom svijeta	
Ishodi učenja:		<p>Znanje:</p> <ul style="list-style-type: none">• Razumjevanje pojma, značaja, principa i ciljeve e-uprave• Razumjevanje mogućnosti i uloge IKT-a u e-upravi• Razumjeti razloge zbog kojih vlade koriste IKT u svom radu <p>Vještine:</p> <ul style="list-style-type: none">• Preispitivanja primjenjivih modela e-demokratije i njihove karakteristike• Planiranja uspostave e-usluga u javnoj upravi• Diskusije o različitim modelima razvoja e-usluga	
Metode izvođenja nastave:		Klasična predavanja, vođene diskusije slučajeva, gosti predavači, samostalan i timski rad na projektnom zadatku.	
Metode provjere znanja sa strukturu ocjene:		Aktivnosti: 30 Grupni rad: 30 Završni ispit: 40	

	Ukupno 100 0-55(5), 55-64(6), 65-74(7), 75-84(8), 85-94 (9), 95-100 (10)
Literatura:	<p>Obavezna:</p> <ul style="list-style-type: none">• iGovernment, Prins, C. et al., http://library.oapen.org/handle/20.500.12657/34585• Aktuelni članci i web linkovi dostupni tokom nastave <p>Dopunska:</p> <ul style="list-style-type: none">• Technological Approach to Ensure Ethical procurement Management, David Fourie and Cornel Malan, DOI: 10.5772/intechopen.98650• Blockchain-era eGovernment services, Mihail DUMITRACHE et al., https://doi.org/10.33436/v32i1y202201• Digitalization in Central and Eastern Europe: BUILDING REGIONAL COOPERATION, Paula J. Dobriansky et al., https://www.jstor.org/stable/resrep26653.8

Šifra predmeta: MPDT107	Naziv predmeta: Digitalna imovina				
Ciklus: II	Godina: I	Semestar: I/II	Broj ECTS kredita: 4		
Status: izborni		Ukupan broj sati: 20 Predavanja 15 Seminar/Vježbe 5			
Učesnici u nastavi	Nastavnici i saradnici izabrani na oblast kojoj predmet pripada				
Preduslov za upis:	/				
Cilj (ciljevi) predmeta:	Upoznati studente sa različitim novim pojavnim oblicima imovine u digitalnom okruženju				
Tematske jedinice:	<ul style="list-style-type: none">- blockchain- kriptovalute- tokeni- lični podaci kao imovina- NFT				
Ishodi učenja:	<p>Znanje:</p> <ul style="list-style-type: none">• Razumjeti pojam i značaj digitalne imovine kroz analizu specifičnih tehnologija koje su obuhvaćene tematskim cjelinama ovog predmeta• Razumjeti primjenu ovih tehnologija danas i koji su potencijali primjene u budućnosti• Steći osnovna znanja o funkcionalanju pravnog okvira u Bosni i Hercegovini koji je relevantan za regulaciju umjetne inteligencije• Steći znanja o vodećim trendovima u svijetu i regionu <p>Vještine:</p> <ul style="list-style-type: none">• Uočiti pravne probleme koji nastaju uslijed nastanka i razvoje digitalne imovina za pravni sistem• Prepoznati rješenja koja su u prošlosti primjenjena kako bi se prevazišli slični problemi u cilju analogne primjene• Prepoznati prisutne trendove na međunarodnom nivou, a naročito u EU <p>Kompetencije:</p> <ul style="list-style-type: none">• Biti sposoban za rad u praksi na rješavanju pravnih problema koji nastaju uslijed primjene ovih tehnologija				

Metode izvođenja nastave:	Predavanja, seminari
Metode provjere znanja sa strukturu ocjene:	<ul style="list-style-type: none">• Završna provjera znanja: 50%• Drugi oblici provjere znanja (seminar, praktična vježba, zadatak, grupni rad, esej i drugi oblici): 40%• Aktivnost u nastavi: 10% <p>0-55(5), 55-64(6), 65-74(7), 75-84(8), 85-94 (9), 95-100 (10)</p>
Literatura:	<p>Obavezna:</p> <ul style="list-style-type: none">• Harbinja, E. & Pearce, H, Your data will never die, but you will: A comparative analysis of US and UK post-mortem data donation frameworks (2020), Computer Law and Security Review.• Harbinja, E, Posthumous Medical Data Donation: The Case for a Legal Framework (2019), The Ethics Of Medical Data Donation. Krutzinna, J. & Floridi, L. (eds.). Springer, Vol. 137. p. 97-113 (Philosophical Studies Series; vol. 137).• FK Low, Kelvin & GS Teo Ernie, Bitcoins and other cryptocurrencies as property? (2017), Law, Innovation and Technology, 9:2, 235-268.• Fantacci, L (2019) Cryptocurrencies and the Denationalization of Money, International Journal of Political Economy, 48:2, 105-126.• Houben R, et al, Cryptocurrencies and blockchain - Legal context and implications for financial crime, money laundering and tax evasion (2018), study requested by the European Parliament's Special Committee on Financial Crimes, Tax Evasion and Tax Avoidance <p>Dopunska:</p> <ul style="list-style-type: none">• Darja Softić Kadenić, Planning for a Digital Death, Property law – challenges of the 21 century, International Scientific Conference, held on 9 October, 2020 in Belgrade, Serbia, 2021.• Nasir Muftić, Treating Personal Data as Property: A Solution for the Digital World?, Property law – challenges of the 21 century, International Scientific Conference, held on 9 October, 2020 in Belgrade, Serbia, 2021.

Šifra predmeta: MPDT108	Naziv predmeta: Realizacija IT projekata i pravo				
Ciklus: II	Godina: I	Semestar: I/II	Broj ECTS kredita: 4		
Status: izborni		Ukupan broj sati: 20 Predavanja 16 Prezentacije seminarских i diskusije 4			
Učesnici u nastavi	Nastavnici i saradnici izabrani na oblast kojoj predmet pripada				
Preduslov za upis:	/				
Cilj (ciljevi) predmeta:	1) Razumjeti tok realizacije projekata razvoja i implementacije sistema baziranih na digitalnim tehnologijama. 2) Upoznati se sa mogućim problemima tokom realizacije projekata koji mogu imati pravne posljedice i koji mogu proizvesti ekonomske štete. 3) Upoznati se sa dobrim pravnim praksama vezanim za realizaciju projekata kako bi se zaštitili interesi zainteresiranih strana (naručilac, isporučilac, država). 4) Razumjeti potrebu da se sistem kontinuirano nadograđuje i održava kako bi zadovoljavao potrebe korisnika.				
Tematske jedinice:	1) Projektovanje sistema baziranih na digitalnim tehnologijama - potreba; sistemska pristup; projektni nivoi apstrakcije (sistem/podsistem/modul/...); dokumentacija; ... 2) Perspektiva kupca (naručioča) sistema - analiza potreba; opseg projekta i specifikacija zahtjeva; javni pozivi za dostavljanje ponuda; očekivanja od novog sistema; tehnička evaluacija ponuda; praćenje uvođenja novog sistema; spremnost za upotrebu novog sistema; ... 3) Perspektiva isporučioca i/ili proizvođača sistema - sposobnost i zrelost za razvoj i/ili implementaciju sistema; metode, pristupi, standardi i drugi okviri djelovanja isporučioca i/ili proizvođača sistema; organizacija i realizacija projekta; upravljanje projektom; ... 4) Odnos naručioca i isporučioca sistema - priprema poziva za ponude u skladu sa zakonima; evaluacija ponuda; ugovor; garancije za dobro izvršenje; polica osiguranja od profesionalne odgovornosti; primopredaja; granatni uslovi; ugovor o održavanju; prava i obaveze korisnika; prava i obaveze isporučioca; arbitraža u slučaju spora; sudski spor; ...				
Ishodi učenja:	<p>Znanje: Poznavanje bazičnih aspekata vezanih za realizaciju IT projekata. Razumijevanje konteksta realizacije IT projekata te potrebe da to bude pravno regulisano.</p> <p>Vještine: Prepoznavanje aspekata realizacije IT projekata koje treba regulisati te odabir načina pravne regulacije.</p>				

	Kompetencije: Sposobnost razumijevanja i definisanja pravnog okvira za realizaciju IT projekta.
Metode izvođenja nastave:	Predavanja korištenjem pripremljenih multimedijalnih prezentacija (u učionici primjenom projektora; po potrebi online putem softvera za video poziv). Prezentacije individualnih seminarskih radova od strane studenata uz diskusiju sa nastavnikom i drugim studentima.
Metode provjere znanja sa strukturu ocjene:	<ul style="list-style-type: none">• Završna provjera znanja: 50%• Drugi oblici provjere znanja (seminar, praktična vježba, zadatak, grupni rad, esej i drugi oblici): 40%• Aktivnost u nastavi: 10% <p>0-55(5), 55-64(6), 65-74(7), 75-84(8), 85-94 (9), 95-100 (10)</p>
Literatura:	<p>Obavezna:</p> <ol style="list-style-type: none">1) Farouq Alhefnawi: Risk and Exposure in Software and It Projects: Deep Legal Insights, AuthorHouse, 2015, ISBN:97814969952922) David Wright: Law for Project Managers, 2nd ed., Routledge, 2017, ISBN: 9781138063907 <p>Dopunska:</p> <ol style="list-style-type: none">1) Mark Tolbert, Susan Parente: Hybrid Project Management: Using Agile with Traditional PM Methodologies to Succeed on Modern Projects, Business Expert Press, 2020, ISBN: 9781952538346

Šifra predmeta: MPDT109	Naziv predmeta: Pravo i digitalni sadržaji				
Ciklus: II	Godina: I	Semestar: I/II	Broj ECTS kredita: 4		
Status: izborni		Ukupan broj sati: 20 Predavanja 15 Vježbe 5			
Učesnici u nastavi	Nastavnici i saradnici izabrani na oblast kojoj predmet pripada				
Preduslov za upis:	/				
Cilj (ciljevi) predmeta:	Upoznati studente sa različitim novim pojavnim oblicima imovine u digitalnom okruženju				
Tematske jedinice:	<ul style="list-style-type: none">- sloboda izražavanja i društvene mreže- ecommerce- privatnost na internetu i pravo biti zaboravljen (right to be forgotten)- društvene mreže i zaštita potrošača (primjenjivo pravo, nadležni sud, zabranjenje ugovorne klauzule itd.)- cyberkriminal i cybersigurnost- internet i pravo intelektualnog vlasništva				
Ishodi učenja:	<p>Znanje:</p> <ul style="list-style-type: none">• Razumjeti pojam i značaj društvenih mreža i interneta danas• Razumjeti domete društvenih mreža i interneta kao prostora za obavljanje različitih aktivnosti• Steći osnovna znanja o funkcionisanju pravnog okvira u Bosni i Hercegovini koji je relevantan za regulaciju društvenih mreža i interneta• Steći znanja o vodećim trendovima u svijetu i regionu <p>Vještine:</p> <ul style="list-style-type: none">• Uočiti pravne probleme koji nastaju u online prostoru• Prepoznati rješenja koja su u prošlosti primjenjena kako bi se prevazišli slični problemi u cilju analogne primjene• Prepoznati prisutne trendove na međunarodnom nivou, a naročito u EU <p>Kompetencije:</p> <ul style="list-style-type: none">• Biti osposobljen za rad u praksi na rješavanju pravnih problema koji nastaju na društvenim mrežama i internet				
Metode izvođenja nastave:	Predavanja, seminari				

<p>Metode provjere znanja sa strukturu ocjene:</p> <p>0-55(5), 55-64(6), 65-74(7), 75-84(8), 85-94 (9), 95-100 (10)</p>	<ul style="list-style-type: none">• Završna provjera znanja: 50%• Drugi oblici provjere znanja (seminar, praktična vježba, zadatak, grupni rad, esej i drugi oblici): 40%• Aktivnost u nastavi: 10%
<p>Literatura:</p>	<p>Obavezna:</p> <ul style="list-style-type: none">• Sweeney, L., Discrimination in online ad delivery, (2013) 56-5 Commun. ACM, p.44–54.• Wachter, S., Affinity Profiling and Discrimination by Association in Online Behavioural Advertising , (2019) 35 Berkeley Technology Law Journal.• Jovanović A. et al, Online assemblies between freedom and order: Practices in South-East Europe, Global Campus Human Rights Journal (2019). <p>Dopunska:</p> <ul style="list-style-type: none">• Perel, M., Enjoining non-liable platforms, Harvard Journal of Law & Technology 34, 1 (2020).• Lehr, D. et P. Ohm, Playing with the Data: What Legal Scholars Should Learn About Machine Learning, (2017) 51 University of California.• Mediacentar, Regulacija štetnog sadržaja na internetu u Bosni i Hercegovini: između slobode izražavanja i štete po demokratiju, (2022).

Šifra predmeta: MPDT110	Naziv predmeta: Upravljanje IT rizicima				
Ciklus: II	Godina: I	Semestar: I/II	Broj ECTS kredita: 4		
Status: izborni		Ukupan broj sati: 20			
Učesnici u nastavi	Nastavnici i saradnici izabrani na oblast kojoj predmet pripada				
Preduslov za upis:	/				
Cilj (ciljevi) predmeta:	Cilj ovog kursa da se polaznici upoznaju sa konceptom rizika, identifikacijom, analizom, procjenom i mehanizmima kontrole rizika s posebnim aspektom na IT rizike u organizacijama. Predmet obuhvata različite tehnike za identifikaciju rizika (prilike i prijetnje), istraživanje kvalitativnih i kvantitativnih metoda za analizu rizika i neizvjesnosti, te na kraju različite vrste kontrola, opcija za upravljanje rizikom. Posebna pažnja je povećena organizacionom nadzoru nad upravljanjem rizicima i odgovornošću na najvišem nivou donošenja odluka i korporativnog upravljanja u organizacijama.				
Tematske jedinice:	<ul style="list-style-type: none">• Uvodne teme i terminologija• Upravljanje rizikom v/s mjerjenje rizika, razvoj, pristupi, procesi, standardi• Metode i tehnike identifikacije rizika, smanjenje složenosti i rizika.• Prioriteti rizika, kvalitativne metode i tehnike analize vjerovatnoće i uticaja.• Metode kvantitativne tehnike analize vjerovatnoće i uticaja, modeliranje rizika i procjena rizika.• Metode i tehnike kontrole rizika, osiguranje, praćenje, testiranje i kontrole rizika.• Korporativno upravljanje, rizik nadzor, revizija, regulacija i usklađenost• Strateško planiranje, vođstvo, uloge i odgovornosti rukovodstva organizacije.				
Ishodi učenja:	<p>Znanje:</p> <ul style="list-style-type: none">• Razumjevanje pojmove informacione imovine, rizika, prijetnji i ranjivosti• Definirati poslovni rizik i rizik cyber sigurnosti• Razumjeti i primjeniti koncept FAIR pristupa upravljanja informacijskim rizicima <p>Vještine:</p> <ul style="list-style-type: none">• Sprovоđenje analize (i procjene) upravljanja rizicima u jednostavnim organizacionim okolnostima i u skladu sa regulatornim zahtjevima• Demonstrirati vještine za procjenu i komuniciranje rizika				

	<ul style="list-style-type: none">• Razviti akcione planove za promoviranje kulture upravljanja rizicima uključujući komunikacije
Metode izvođenja nastave:	Klasična predavanja, vođene diskusije slučajeva, gosti predavači, samostalan i timski rad na projektnom zadatku.
Metode provjere znanja sa strukturu ocjene:	Aktivnosti: 30 Grupni rad: 30 Završni ispit: 40 Ukupno: 100 0-55(5), 55-64(6), 65-74(7), 75-84(8), 85-94 (9), 95-100 (10)
Literatura:	Obavezna: <ul style="list-style-type: none">• Measuring and Managing Information Risk: A FAIR Approach, Jack Freund and Jack Jones, 2014, Elsevier Dopunska: <ul style="list-style-type: none">• Aktuelni članci i web linkovi dostupni tokom nastave

Šifra predmeta: MPDT111	Naziv predmeta: Digitalne tehnologije i etika		
Ciklus: II	Godina: I	Semestar: I/II	Broj ECTS kredita: 4
Status: izborni		Ukupan broj sati: 20 Predavanja 15 Vježbe 5	
Učesnici u nastavi		Nastavnici i saradnici izabrani na oblast kojoj predmet pripada	
Preduslov za upis:		/	
Cilj (ciljevi) predmeta:		Upoznati studente sa etičkim pitanjima koja proizilaze iz primjene tehnologije	
Tematske jedinice:		<ul style="list-style-type: none">- odnos etike i prava- etika u dizajnu i primjeni tehnologije- pravna regulacija etike	
Ishodi učenja:		<p>Znanje:</p> <ul style="list-style-type: none">• Razumjeti pojam i značaj etike u primjeni tehnologije• Razumjeti nove etičke izazove koje donose digitalne tehnologije• Steći znanja o vodećim trendovima u svijetu, regionu i Bosni i Hercegovini u pogledu tretmana etike i tehnologije <p>Vještine:</p> <ul style="list-style-type: none">• Uočiti etičke probleme u primjeni tehnologije• Prepoznati rješenja koja su u prošlosti primijenjena kako bi se prevazišli slični problemi u cilju analogne primjene• Prepoznati prisutne trendove na međunarodnom nivou, a naročito u EU <p>Kompetencije:</p> <ul style="list-style-type: none">• Biti sposoban za rješavanja pravnih problema u vezi sa tehnologijom koji imaju etičku dimenziju	
Metode izvođenja nastave:		Predavanja, seminari	
Metode provjere znanja sa strukturu ocjene:		<ul style="list-style-type: none">• Završna provjera znanja: 50%• Drugi oblici provjere znanja (seminar, praktična vježba, zadatak, grupni rad, esej i drugi oblici): 40%• Aktivnost u nastavi: 10% <p>0-55(5), 55-64(6), 65-74(7), 75-84(8), 85-94 (9), 95-100 (10)</p>	
Literatura:		Obavezna: <ul style="list-style-type: none">• Zuboff, S., The Age of surveillance capitalism: the fight for the future at the new frontier of power, London (2019), Profile Books.	

- Broussard, M., Artificial unintelligence: how computers misunderstand the world, Cambridge, Massachusetts (2018), The MIT Press.
- GURNEY, J. K., Crashing into the Unknown: An Examination of Crash-Optimization Algorithms Through the Two Lanes of Ethics and Law, (2016) 79-1 Albany Law Review.

Dopunska:

- Ilich I, Tools for Conviviality (1973), Harper.
- Noble, S. U., Algorithms of Oppression: How Search Engines Reinforce Racism (2018), New York, New York University Press.
- Moor, J., Are There Decisions Computers Should Never Make (1985), 1 Nature and System.
- Hildebrandt, M., Learning as a Machine. Crossovers Between Humans and Machines (2017), 4-1 Journal of Learning Analytics, 6-23.

Šifra predmeta: MPDT112	Naziv predmeta: Prevencija prevara i forenzičko računovodstvo		
Ciklus: II	Godina: I	Semestar: I/II	Broj ECTS kredita: 4
Status: izborni	Ukupan broj sati: 20		
Učesnici u nastavi	Nastavnici i saradnici izabrani na oblast kojoj predmet pripada		
Preduslov za upis:	/		
Cilj (ciljevi) predmeta:	Omogućiti studentima da razumiju, evaluiraju i primjenjuju širok raspon stečenih znanja u vezi prevencije i istrage prevara, procjene izloženosti rizicima prevara, sa posebnim fokusom na IT sisteme.		
Tematske jedinice:	<ul style="list-style-type: none">• Uvod u koncept prevara u poslovanju• Korupcija• Prevare u finansijskim izvještajima• Istrage prevara• Procjena rizika od prevara• Pristupi sprečavanju prevara• Forenzična analiza podataka• Uloga forenzičnog računovođe u prevenciji prevara		
Ishodi učenja:	<p>Znanje:</p> <ul style="list-style-type: none">• pokazati napredno znanje i razumijevanje širokog spektra principa i tehnika prevencije prevara, kao i procjene rizika te istraga prevara; <p>Vještine:</p> <ul style="list-style-type: none">• primjeniti naučene principe i tehnike za potrebe prevencije prevara i procjene rizika od prevara u društvima;		
Metode izvođenja nastave:	Klasična predavanja, vođene diskusije slučajeva, gosti predavači, samostalan i timski rad na projektnom zadatku.		
Metode provjere znanja sa strukturonim ocjene:	<p>Aktivnosti: 30 Grupni rad: 30 Završni ispit: 40 Ukupno 100</p> <p>0-55(5), 55-64(6), 65-74(7), 75-84(8), 85-94 (9), 95-100 (10)</p>		
Literatura:	<p>Obavezna:</p> <ul style="list-style-type: none">• Wells, T. Joseph. Corporate Fraud Handbook: Prevention and Detection, 5th Edition, 2017.• Coderre, David. Primena kompjutera u sprečavanju i otkrivanju kriminalni radnji, Savez računovođa i revizora Srbije (prevod izdanja iz 2009.)		

Dopunska:

- Aktuelni materijali i web lokacije dostupne studentima tokom nastave

Šifra predmeta: MPDT113	Naziv predmeta: Radionica: Studija slučaja – tehnologija u sudskim postupcima				
Ciklus: II	Godina: I	Semestar: I	Broj ECTS kredita: 2		
Status: obavezan		Ukupan broj sati: 20 Predavanja 6 Vježbe 14			
Učesnici u nastavi	Nastavnici i saradnici izabrani na oblast kojoj predmet pripada				
Preduslov za upis:	/				
Cilj (ciljevi) predmeta:	Studenti će biti upoznati sa stvarnim sudskim slučajem iz Bosne i Hercegovine u kojem je došlo do primjene tehnologije. Predstavljeni slučaj će biti obilježen primjenom tehnologije na način koji je bio izuzetno bitan za konačni ishod postupka.				
Tematske jedinice:	<ul style="list-style-type: none">• institucionalni okvir za regulaciju tehnologije i osoba• osnovi digitalne imovine• osnovi prava intelektualnog vlasništva• digitalni potpis, elektronski dokument i e-uprava• uloga vještaka IKT struke				
Ishodi učenja:	<p>Znanje:</p> <ul style="list-style-type: none">• Uočiti kako pravo Bosne i Hercegovine funkcioniše u praksi kada je riječ o njegovoj primjeni na tehnološke fenomene• Razumjeti domete tehnologije i prednosti i rizika koje kreira za sudske postupke• Steći osnovna znanja o funkcionisanju procesnopravnog okvira u Bosni i Hercegovini koji je relevantan za primjenu tehnologije u sudskim postupcima• Steći znanja o vodećim trendovima u svijetu i regionu <p>Vještine:</p> <ul style="list-style-type: none">• Uočiti pravne probleme koji nastaju primjenom tehnologije u konkretnim postupcima u pravu Bosne i Hercegovine• Prepoznati potrebu za vještačenjem IKT struke i znati šta očekivati od vještačenja• Prepoznati rješenja koja su u prošlosti primijenjena kako bi se prevazišli slični problemi u cilju analogne primjene• Prepoznati prisutne trendove na međunarodnom nivou, a naročito u EU				

	Kompetencije: <ul style="list-style-type: none">Biti osposobljen za rad u praksi na rješavanju pravnih problema koji nastaju uslijed primjene tehnologije u sudskim postupcima u Bosni i Hercegovini
Metode izvođenja nastave:	Predavanja, seminari
Metode provjere znanja sa strukturu ocjene:	Aktivnost na nastavi, prisustvo. Ocjena je opisna – ispunio obaveze.
Literatura:	Obavezna: Literatura se sastoji od materijala koji će biti kreirani na osnovu stvarnog slučaja koji će se proučavati.

Šifra predmeta: MPDT114	Naziv predmeta: Radionica - Revizija IT projekata				
Ciklus: II	Godina: I	Semestar: II	Broj ECTS kredita: 2		
Status: obavezan		Ukupan broj sati: 20			
Učesnici u nastavi	Nastavnici i saradnici izabrani na oblast kojoj predmet pripada				
Preduslov za upis:	/				
Cilj (ciljevi) predmeta:	Cilj ovog kursa da polaznici upoznaju cjelokupni okvir i metodologiju IT revizije i kako se IT revizija uklapa u cjelokupnu funkciju interne revizije. To obuhvata životni ciklus IT revizije, od prikupljanja informacija, planiranja, testiranja, izvještavanja i praćenja problema, itd. Studenti će biti upoznati sa osnovnim tehnikama revizije kao što su metodologija i pristup uzorkovanja, razvijanje procedure testiranja, prikupljanje dokaza, analiza pronalaženja i pisanje, komunikacija i eskalacija. Studenti će takođe naučiti kako da razviju i implementiraju strategije i ciljeve IT revizije u skladu sa opšteprihvaćenim standardima revizije kako bi se osiguralo da se IT sredstva organizacije adekvatno kontrolišu, nadgledaju i procenjuju i da su usklađena sa njenim poslovnim ciljevima.				
Tematske jedinice:	<ul style="list-style-type: none">• Proces IT revizije• Procjena rizika i IT upravljanje,• Životni ciklus IT revizije• Standardi i propisi IT revizije• Upotreba revizorskih alata za analizu podataka• IT revizija i izazovi novih tehnologija				
Ishodi učenja:	<p>Znanje:</p> <ul style="list-style-type: none">• Objasnite okvire, standarde i propise.• Objasnitи ulogу funkcije IT revizije unutar organizacije• Objasnitи proces IT revizije i zadatke unutar oblasti IT revizije• Objasnitи tehnike IT revizije i korake kako izvršiti IT reviziju <p>Vještine:</p> <ul style="list-style-type: none">• Dizajnirati specifičnu IT reviziju s ciljem provjere jesu li informacioni sistemi zaštićeni, kontrolisani i obezbeđuju li vrednost organizaciji.• Pribaviti i procijeniti revizionske dokaze koji su dovoljni, relevantni i korisni za postizanje ciljeva revizije.				

	<ul style="list-style-type: none">• Analizirati prikupljene informacije i izvještavati o rezultatima revizije ključnim stakeholderima• Dati preporuke i sprovesti date preporuke i pratiti efekat
Metode izvođenja nastave:	Klasična predavanja, vođene diskusije slučajeva, gosti predavači, samostalan i timski rad na projektnom zadatku.
Metode provjere znanja sa strukturonim ocjenama:	Aktivnost na nastavi, prisustvo. Ocjena je opisna – ispunio obaveze.
Literatura:	<p>Obavezna:</p> <ul style="list-style-type: none">• Sigurnost i revizija informacijskih sustava u okruženju digitalne ekonomije, Spremić Mario, 2017• Aktuelni materijali i web lokacije dostupne studentima tokom nastave <p>Dopunska:</p> <ul style="list-style-type: none">• IT Auditing Using Controls to Protect Information Assets, Third Edition, Mike Kegerreis , Mike Schiller , et al., 2019

Šifra predmeta: MPDT115	Naziv predmeta: Radionica: Metodologija izrade završnog rada				
Ciklus: II	Godina: I	Semestar: II	Broj ECTS kredita: 1		
Status: obavezan		Ukupan broj sati: 10 Predavanja Vježbe			
Učesnici u nastavi		Nastavnici i saradnici izabrani na oblast kojoj predmet pripada			
Preduslov za upis:		/			
Cilj (ciljevi) predmeta:		Osnovni cilj radionice je približavanje studentima bitnih postavki i principa naučnoistraživačkog rada, kao i kvalitativnih i kvantitativnih metoda istraživanja. Studenti trebaju steći bazična znanja iz metoda naučnoistraživačkog rada koji će ih osposobiti za kritičko promišljanje o naučnim i stručnim radovima, kao i za samostalan naučnoistraživači rad u oblasti koja ih interesuje.			
Tematske jedinice:		1. Osnovni pojmovi i principi naučnoistraživačkog i završnog rada 2. Ograničenja istraživačkih metoda u društvenim, humanističkim i tehničkim naukama 3. Teoretski okvir i definicija problema istraživanja 4. Pregled literature – kako znati šta je relevantno 5. Istraživački okvir – dizajn istraživanja, istraživačka pitanja i hipoteze 6. Dizajn kvalitativnog istraživanja – pitanja i hipoteze 7. Dizajn kvantitativnog istraživanja 8. Pojam signifikantnosti, način opisivanja i prezentacije rezultata 9. Testiranje hipoteza – metode testiranja u zavisnosti od dizajna istraživanja, vrste varijabli i vrste hipoteze 10. Pouzdanost i validnost istraživanja			
Ishodi učenja:		Očekujemo da će student biti u stanju da osmisli aktuelnu temu istraživanja (završnog rada), napravi pregled relevantne literature iz odabrane oblasti istraživanja, pripremi odgovarajući teoretski okvir, artikulira istraživačka pitanja i hipoteze, te pripremi odgovarajuću metodologiju i instrumente istraživanja. Rezultat projekta bi trebala biti djelomično struktuirana prijava završnog rada u skladu sa odabranom metodologijom istraživanja.			
Metode izvođenja nastave:	Predavanja, seminari				
Metode provjere znanja sa strukturu ocjene:	Aktivnost na nastavi, prisustvo. Ocjena je opisna – ispunio obaveze.				

Literatura:

Obavezna:

Literatura se sastoji od materijala koji će biti kreirani na osnovu stvarnog slučaja koji će se proučavati.