

| COURSE INFORMATION | | | | | |
|-------------------------|---------|----------|------------|---------|------|
| Course Title | Code | Semester | L+P+L Hour | Credits | ECTS |
| Informatics Regulations | CIS 516 | | 3+0+0 | 3 | 10 |

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| Prerequisites - |
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| Language of Instruction | English |
| Course Level | Master's Degree |
| Course Type | Elective |
| Course Coordinator | Prof. Dr. Uğur Tevfik Kaplanlı |
| Instructors | Prof. Dr. Onur Özcan |
| Assistants | |
| Goals | The main objective of the course is to give students the ability to seriously think about legal and political issues arising from changes in information and communication technology and provide a wide range of learning abilities. |
| Content | Basic concepts of information security. Security policies and risk evaluation. Classification of teats. Hardware and software tools for security. Network Security. Verification and digital signatures. Firewalls. Virtual Private Networks. Intrusions and their detection. Hacking, Computer crime and legislation. |

| Learning Outcomes | Program Learning Outcomes | Teaching Methods | Assessment Methods |
|--|---------------------------|------------------|--------------------|
| Information Systems graduates know the basic components of operating systems and networks. | 6,9,10 | 1,4 | A,C |
| Information Systems graduates know what the basic OS and network security threats are. | 6,9,10 | 1,2,3,4 | A,C |
| Knows how to solve legal problems, can make strategic situation evaluation in an analytic and complete manner. | 6,9,10 | 1,3, 4 | A,C |
| Information Systems graduates know security protocols, administrative precautions against security threats. | 6,9,10 | 1,3,4 | A,C |
| Can evaluate his knowledge and skill in legal matters and informatics in a critical way, is ready for self renewal and development. | 6,9 | 1,3,4 | A,C,D |
| Knows and acts according to the social, scientific and ethical values in data collection, interpretation, announcing and practicing regarding legal, social and political progress | 6,9 | 1,2,3,4 | A,C,D |
| Can reach the latest scientific resources, court decisions and other sources of law and apply these nationally and internationally. | 6,9 | 1,2,3,4 | A,C,D |

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| Teaching Methods: | 1: Lecture, 2: Question-Answer, 3: Discussion, 4: Lab Work |
| Assessment Methods: | A: Testing, B: Laboratory C: Homework D: Project |

| COURSE CONTENT | | |
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| Week | Topics | Study Materials |
| 1 | Criminal Law General Provisions I | |
| 2 | Criminal Law General Provisions II | |
| 3 | Criminal Law General Provisions III | |
| 4 | Article 243 of the TPC | |
| 5 | Article 243/3 of the TPC | |
| 6 | Article 244 of the TPC | |
| 7 | Article 244 of the TPC | |
| 8 | Practice | |
| 9 | Midterm Exam | |
| 10 | TPC 245 | |
| 11 | TPC 245 | |
| 12 | TPC 245A | |
| 13 | TPC 245A | |
| 14 | Practice | |
| 15 | Final Exam | |

| RECOMMENDED SOURCES | |
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| Textbook | Ian J. Lloyd: Information Technology Law, 2010, 2008 |
| Additional Resources | Andrew Murray: Information Technology Law: The law and Society, 2010; |

| MATERIAL SHARING | |
|-------------------------|-------------------------------------|
| Documents | Presentations and Laboratory Sheets |
| Assignments | Homework Sheets |
| Exams | Old exam questions are furnished |

| ASSESSMENT | | |
|---|---------------|-------------------|
| IN-TERM STUDIES | NUMBER | PERCENTAGE |
| Mid-terms | 2 | 66 |
| Quizzes | 4 | 16 |
| Assignment and Labwork | 10 | 18 |
| Total | | 100 |
| CONTRIBUTION OF FINAL EXAMINATION TO OVERALL GRADE | | 40 |
| CONTRIBUTION OF IN-TERM STUDIES TO OVERALL GRADE | | 60 |
| Total | | 100 |

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| COURSE CATEGORY | Expertise/Field Courses |
|------------------------|-------------------------|

| COURSE'S CONTRIBUTION TO PROGRAM | | | | | | |
|----------------------------------|---|--------------|---|---|---|---|
| No | Program Learning Outcomes | Contribution | | | | |
| | | 1 | 2 | 3 | 4 | 5 |
| 1 | Information Systems graduates have the knowledge and the skills to design and develop the complete systems for multi-media visual user interface. (ACM 112,262) | | | | | |
| 2 | Information Systems graduates have advanced the knowledge and skills to design, develop and install the application systems for multi-media. (ACM365, 368,473) | | | x | | |
| 3 | Information Systems graduates have the knowledge and the skills to design, develop and apply algorithms and data structures to solve the basic problems of information processing, within the framework of discrete mathematics (ACM 221,222). | | | | | x |
| 4 | Information Systems graduates have the knowledge and the skills to design and develop computer applications, based on user specified requirements, using modern structured development tools and install them on various hardware platforms and deploy their usage.(ACM 311,322) | | | | | x |
| 5 | Information Systems graduates have the knowledge and the skills to design and develop computer applications, based on user specified requirements, using modern object-oriented development tools and install them on various hardware platforms and deploy their usage(ACM 321). | x | | | | |
| 6 | Information Systems graduates know the logic of computer operating systems, the basic set of system commands, how to control access to system resources by users of different departments and how to monitor the running of jobs in the system (ACM 369, 370). | | | | | x |
| 7 | Information Systems graduates have the knowledge and the skills to design and develop data models serving different requirements, database applications that would access and process data using various types of software, including queries, reports and business applications.(ACM 211, 364) | | | x | | |
| 8 | Information Systems graduates have the knowledge and the skills to design and develop business applications that would provide data access, modification and processing for data kept in enterprise database systems (ACM 221,364). | | | | | |
| 9 | Information Systems graduates have the knowledge about computer networks, and have the skills to design, develop and monitor computer networks, how to configure them and how to maintain their performance. (ACM 361, 362, 363, 463, 464) | | | | | x |
| 10 | Information Systems graduates have the knowledge and the skills to design and develop visual user interfaces for the web, web-based applications for n-tier client/server configurations, how to deploy them in enterprises (ACM 365, 368, 412). | | | | | x |

| ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION | | | |
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| Activities | Quantity | Duration (Hour) | Total Workload (Hour) |
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| Course Duration (Including the exam week: 16x Total course hours) | 14 | 3 | 42 |
| Hours for off-the-classroom study (Pre-study, practice) | 14 | 5 | 70 |
| Homework | 10 | 10 | 100 |
| Quizzes | 10 | 1 | 10 |
| Midterm | 1 | 10 | 10 |
| Final | 1 | 10 | 10 |
| Total Work Load | | | 242 |
| Total Work Load / 25 (h) | | | 9.6 |
| ECTS Credit of the Course | | | 10 |