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| **COURSE INFORMATON** |
| **Course Title** | *Code* | *Semester* | *L+P Hour* | *Credits* | *ECTS* |
| **Technology Applications in Electronic Commerce** | ACM521 | 1 | 3 | 3 | 8 |

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| **Prerequisites** | - |

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| **Language of Instruction** | English http://www.ebs.sakarya.edu.tr/img/img_flags/tr.png |
| **Course Level** | Master Degree |
| **Course Type** | Compulsory |
| **Course Coordinator** |  |
| **Instructors** | Manu DUBE |
| **Assistants** |  |
| **Goals** | The objective of this course is to provide operational know-how of e-Commmerce operations, applications with online transactions with legal, ethical and social issues, and implementations. |
| **Content** | A context for developing e-Commerce Applications Types of e-Commerce applications. Identifying and describing an e-Commerce applications. E-Commerce feasibility. E-Commerce requirement analysis. High-level, detailed and technical design and construction. E-business models. Internet marketing. Online monetary transactions. Internet taxation. Legal, ethical and social issues. Testing and implementation: JavaScript, JScript, DHTML, CSS, ASP, XML. |

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| **Learning Outcomes** | **Teaching Methods** | **Assessment Methods** |
| Students should be able to define what an information system is; should be able to list the broad components of such as system; and should be able to discuss the advantages and pitfalls of such systems. | 1,2,3 | A,B,C,D,E |
| Students should know the basic steps involved with analysing and designing an information system, as well as the potential pitfalls in such endeavors. | 1,2,3 | A,B,C,D,E |
| Students should have an in-depth knowledge of how computers work to be able to make informed decisions with regard to their use in information systems, keeping in mind the technological trends | 1,2,3 | A,B,C,D,E |
| Students should know the various electronic commerce levels, their advantages and disadvantages, as well as the need for structured and object-oriented programming. | 1,2,3 | A,B,C,D,E |

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| **Teaching Methods:** | 1: Lecture, 2: Question-Answer, 3: Discussion  |
| **Assessment Methods:** | A: Exam, B:Presentation, C: Homework, D: Project, E: Laboratory  |

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| **DERS AKIŞI** |
| **Hafta** | **Konular** | **Ön Hazırlık** |
| 1) | Introduction to eCommerce | Course notes, textbook |
| 2) | E-Commerce Applications | Course notes |
| 3) | Types of e-Commerce applications | Course notes |
| 4) | Identifying and describing an e-Commerce applications | Course notes |
| 5) | E-Commerce feasibility | Course notes |
| 6) | E-Commerce requirement analysis | Course notes |
| 7) | e-Commerce technical design  | Course notes |
| 8) | E-business models | Course notes |
| 9) | Midterm |  |
| 10) | Internet Marketing | Course notes |
| 11) | E-Commerce Technologies : JavaScript, JScript | Course notes |
| 12) | E-Commerce Technologies : DHTML, CSS | Course notes |
| 13) | e-Commerce Technologies : ASP, XML | Course notes |
| 14) | Presentations |  |
| 15) | Final Examination |  |

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| **SOURCES** |
| **Textbook** | Management Information Systems, by James A. O’Brien and George M. MarakasMcGraw Hill/ IrwinTurban, E. and King, D. Introduction To E-Commerce .2003, Pearson Education. ISBN 0-13-122450-6 [T2003] |
| **Additional Resources** | Course webside, course notes, text books |

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| **MATERIAL SHARING** |
| **Documents** | Course webside, course notes, text books |
| **Homeworks** | Homework, interm papers |
| **Exams** | Midterm, final |
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| **ASSESSMENT SYSTEM** |
| **IN-TERM STUDIES** | **NUMBER** | **PERCENTAGE** |
| **Mid-terms** | 1 | 35.71 |
| **Interm -papers** | 2 | 28.58 |
| **Homework** | 5 | 35.71 |
| **Total** |   | 100 |
| **Contribution Of Final Examination To Overall Grade** |   | 30 |
| **Contribution Of In-Term Studies To Overall Grade** |   | 70 |
| **Total** |   | 100 |

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| **COURSE CATEGORY** | Expertise/Field Courses |

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| **COURSE'S CONTRIBUTION TO PROGRAM** |
| No | Program Learning Outcomes | Contribution |
| 1 | 2 | 3 | 4 | 5 |  |
| 1 | E-Commerce and Technology Management Master graduated, Describe contemporary e-Commerce environment |  |  |  |  |  | X |
| 2 | E-Commerce and Technology Management Master graduated, Review concepts and terminology together with processes and management decisions involved |  |  |  |  | X |  |
| 3 | E-Commerce and Technology Management Master graduated, Apply techniques of using of JavaScript, JScript, DHTML, CSS, ASP, XML documents to external resources |  |  |  | X |  |  |
| 4 | E-Commerce and Technology Management Master graduated, Demonstrate an understanding of transforming and presentation languages |  |  |  |  | X |  |
| 5 | E-Commerce and Technology Management Master graduated, Assess major e-Commerce opportunities, limitations, issues and risks |  |  |  |  |  | X |
| 6 | E-Commerce and Technology Management Master graduated, Skills in project and risk management, awareness about importance of entrepreneurship, innovation and long-term development, and recognition of international standards and methodologies.  |  |  |  |  |  | X |
| 7 | E-Commerce and Technology Management Master graduated, Recognition of the need for, and the ability to access information, to follow recent developments in science and technology, and to engage in life-long learning. |  |  |  |  |  | X |
| 8 | E-Commerce and Technology Management Master graduated An ability to design, implement and evaluate an information system, component, process or program that meets specified requirements. |  |  |  | X |  |  |

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| **ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION** |
| **Activities** | Quantity | Duration(Hour) | TotalWorkload(Hour) |
| **Course Duration (Including the exam week: 16x Total course hours)** | 16 | 3 | 48 |
| **Hours for off-the-classroom study (Pre-study, practice)** | 16 | 3 | 48 |
| **Mid-terms** | 1 | 20 | 20 |
| **Homework** | 5 | 4 | 20 |
| **In-term papers** | 1 | 40 | 40 |
| **Final examination** | 1 | 20 | 20 |
| **Total Work Load** |  |  | 196 |
| **Total Work Load / 25 (h)** |  |  | 7,8 |
| **ECTS Credit of the Course** |  |  | 8 |