Content

Course Code	Course Name	Semester	Theory	Practice	Lab	Credit	ECTS
INF493	Research Methods in Computer Engineering	7	3	0	0	3	3

Prerequisites	
Admission Requirements	

Language of Instruction	French
Course Type	Compulsory
Course Level	Bachelor Degree
Objective	- To provide information about science and ethics - To explain the rules of academic writing - To provide students with the ability to make technical and academic presentations and to write effective reports - Providing students with knowledge and understanding of project management and risk management, especially in the fields of entrepreneurship and innovation, - To ensure that students work in multi-disciplinary teams, - To ensure that students have the necessary equipment and infrastructure for their graduation projects.
Content	Week 1: Entrepreneurship, project topics Week 2 The effects and problems of new technologies and technology on health, environment and security in universal and social dimensions Week 3: Research Processes, Scanning Databases, Preparing Research Reports: Correct citations, case studies Week 4 Effective Presentation Techniques, project presentation flow examples, good and bad examples, content, visuals, common mistakes Week 5 Professional Ethics, Engineering Ethics, Scope and ethical issues in scientific research and publication ethics Week 6 Determination of the project topic and its content Week 7 Project Management Week 8 Project risk management and change management Week 9 Midterm Exam Week 10 Project Presentations Week 11 Design in Information Projects Week 12 Agile Project Management Week 13 Literature Review Report Delivery Week 14 Project submission and presentation
References	1. Resnik, D.B., ""The Ethics of Science an Introduction"", Routledge, 1998. 2. Seyidoğlu, H., ""Bilimsel Araştırma ve Yazma El Kitabı"", Babil, 2009. 3. Do and Don’ts of Poster Presentation” Steven Block, Princeton University"

Theory Topics

Week	Weekly Contents
1	Week 1: Entrepreneurship, project topics
2	Week 2 The effects and problems of new technologies and technology on health, environment and security in universal and social dimensions
3	Week 3: Research Processes, Searching Databases, Preparing Research Reports: Correct citations, case studies
4	Week 4 Effective Presentation Techniques, project presentation flow examples, good and bad examples, content, visuals, common mistakes
5	Week 5 Professional Ethics, Engineering Ethics, Scope and ethical issues in scientific research and publication ethics
6	Week 6 Determination of the project topic and its content
7	Week 7 Project Management
8	Week 8 Project risk management and change management

Week	Weekly Contents
9	Week 9 Midterm Exam
10	Week 10 Project Presentations
11	Week 11 Design in ICT Projects
12	Week 12 Agile Project Management
13	Week 13 Literature Review Report Delivery
14	Week 14 Project submission and presentation