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| **ISHIK UNIVERSITY FACULTY OF SCIENCE Department of INFORMATION TECHNOLOGY,2017-2018 Spring Course Information for IT 403 FINAL YEAR PROJECT I** |

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| --- | --- |
| **Course Name:** | FINAL YEAR PROJECT I |
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|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Code** | **Course type** | **Regular Semester** | **Theoretical** | **Practical** | **Credits** | **ECTS** |
| IT 403 | 2 | 7 | - | 6 | 3 |  |

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| **Name of Lecturer(s)-Academic Title:** | Bilal Ahmed - |
| **Teaching Assistant:** | - |
| **Course Language:** | English |
| **Course Type:** | Non-area Elective |
| **Office Hours** | 14:00-16:00  |
| **Contact:** | Email:bilal.ahmed@ishik.edu.iq Tel:+9647714442612  |
| **Teacher's academic profile:** | BSc/Msc in Computer Engineering  |
| **Course Objectives:** | The objective of this course are; to make students get acquainted with a real research environment, to motivate them learn how to do literature search and perform group research tasks and present results with the ideas in oral and written forms. The course requires the students to draw upon the four years of knowledge and experience they gained and put them into practical use. Throughout the year, under the supervision of an instructor students are required to produce a project as they design, build, and test the software or device devices they’re developing. This course covers the first half of academic research, which are ; Introduction, literature review and methodology sections. |
| **Course Description (Course overview):** | A study under the supervision of an advisor: Research on exploring and defining a potential study area suitable for a senior design project. Identification of a specific problem from the selected study area in IT. Results from this study are documented and presented in the form of a project proposal. |
| **COURSE CONTENT**

|  |  |  |  |
| --- | --- | --- | --- |
| **Week** | **Hour** |               **Date**               | **Topic** |
| **1** | 8 | 8-12/10/2017 | Announcements of projects |
| **2** |  | 15-19/10/2017 |  |
|  |  |  |  |
| **3** |  | 22-26/10/2017 |  |
| **4** |  | 29/10-2/11/2017 |  |
|  |  |  |  |
| **5** |  | 5-9/11/2017 |  |
| **6** |  | 12-16/11/2017 |  |
|  |  |  |  |
| **7** |  | 19-23/11/2017 | Midterm Exam |
| **8** |  | 26-30/11/2017 |  |
|  |  |  |  |
| **9** |  | 3-7/12/2017 |  |
| **10** |  | 10-14/12/2017 |  |
|  |  |  |  |
| **11** |  | 17-21/12/2017 |  |
| **12** |  | 24-28/12/2017 | ? |
|  |  |  |  |
| **13** |  | 31/12/2017-4/1/2018 |  |
| **14** |  | 7-11/1/2018 |  |
|  |  |  |  |
| **15** |  | 14-18/1/2018 | Final Exam |
| **16** |  | 21-25/1/2018 | Final Exam |
|  |  |  |  |

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| **COURSE/STUDENT LEARNING OUTCOMES**

|  |  |
| --- | --- |
|  |  |
| **1** | Constructing a detailed project plan that includes the timetable and tasks assigned to each team member. |
| **2** | Explore the possible solutions to a specific problem. |
| **3** | Making a research about the proposed project |
| **4** | Form a path of solution depends on collected background research |
| **5** | Present the first tree chapters of an academic research to the committee. |

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| **COURSE'S CONTRIBUTION TO PROGRAM OUTCOMES**(Blank : no contribution, I: Introduction, P: Profecient, A: Advanced )

|  |  |  |
| --- | --- | --- |
|  | **Program Learning Outcomes** | **Cont.** |
| **1** | An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution | A |
| **2** | An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs | A |
| **3** | An ability to function effectively on teams to accomplish a common goal | A |
| **4** | An understanding of professional, ethical, legal, security, social, and economic issues and responsibilities | A |
| **5** | An ability to analyze the local and global impact of computing on individuals, organizations, and society | A |
| **6** | An ability to use current techniques, skills, and tools necessary for computing practice | A |
| **7** | An ability to use and apply current technical concepts and practices in the core information technologies of human computer interaction, information management, programming, networking, web systems and technologies | A |
| **8** | An ability to identify and analyze user needs and take them into account in the selection, creation, evaluation and administration of computer-based systems | A |
| **9** | An ability to effectively integrate IT-based solutions into the user environment | A |
| **10** | An ability apply problem solving skills, core IT concepts, best practices and standards to information technologies | A |
| **11** | An ability to identify and evaluate organizational requirements and current and emerging technologies | A |
| **12** | An ability to select, design, integrate and administer IT-based solutions into the organizational environment | A |

 |
| **Prerequisites (Course Reading List and References):** | This course requires wide understanding about IT technologies in general. Prerequisites will be defined per each project. |
| **Student's obligation (Special Requirements):** | Apart from general announcements from the department, students also have to follow the feedbacks of the dependent supervisor as well. |
| **Weekly Laboratory/Practice Plan:** |

|  |  |  |  |
| --- | --- | --- | --- |
| **Week** | **Hour** |               **Date**               | **Topics** |
| 1 | 6 | 8-12/10/2017 | Announcements of projects |
| 2 | 6 | 15-19/10/2017 | Setting a team and picking a project |
|  |  |  |  |
| 3 | 6 | 22-26/10/2017 | Signing the agreement with the supervisor |
| 4 | 6 | 29/10-2/11/2017 | Defining problem statements and objectives of project |
|  |  |  |  |
| 5 | 6 | 5-9/11/2017 | Breaking the objectives into smaller terms for literature review |
| 6 | 6 | 12-16/11/2017 | Collecting background information (literature review) and discussing the findings with supervisor - 1 |
|  |  |  |  |
| 7 | 6 | 19-23/11/2017 | Collecting background information (literature review) and discussing the findings with supervisor - 2 |
| 8 | 6 | 26-30/11/2017 | Collecting background information (literature review) and discussing the findings with supervisor - 3 |
|  |  |  |  |
| 9 | 6 | 3-7/12/2017 | Setting up an execution plan and defining methodology. |
| 10 | 6 | 10-14/12/2017 | Defining theoretical bases of project such as ER diagram / Case Diagram / Flow chart / ... |
|  |  |  |  |
| 11 | 6 | 17-21/12/2017 | Refining the methodology and theoretical foundations. |
| 12 | 6 | 24-28/12/2017 | Building first prototype |
|  |  |  |  |
| 13 | 6 | 31/12/2017-4/1/2018 | Reviewing the first prototype and building the second prototype |
| 14 | 6 | 7-11/1/2018 | Reviewing the second prototype and Start preparing presentation |
|  |  |  |  |
| 15 | 6 | 14-18/1/2018 | Finalising to prepare presentation |
| 16 | 6 | 21-25/1/2018 | preforming the first semester presentation |
|  |  |  |  |

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| **Course Book/Textbook:** | Depends on supervisor |
| **Other Course Materials/References:** | Depends on supervisor |
| **Teaching Methods (Forms of Teaching):** | Lectures, Practical Sessions, Excersises, Seminar, Self Evaluation, Project, Assignments, Case Studies, Demonstration |
| **COURSE EVALUATION CRITERIA**

|  |  |  |
| --- | --- | --- |
| **Method** | **Quantity** | **Percentage (%)** |
| Attendance | 10 | 1 |
| Participation | 10 | 1 |
| Project | 1 | 10 |
| Presentation | 1 | 20 |
| Lab/Practical Exam(s) | 1 | 10 |
| Final Exam | 1 | 40 |
| **Total** | **100** |
| **Examinations:**Essay Questions, True-False, Short Answers |  |  |

 |
| **Extra Notes:** |
| **ECTS (ALLOCATED BASED ON STUDENT) WORKLOAD**

|  |  |  |  |
| --- | --- | --- | --- |
| **Activities** | **Quantity** | **Duration (Hour)** | **Total Work Load** |
| Course Duration (Including the exam week: 16x Total course hours) |  |  | 0 |
| Hours for off-the-classroom study (Pre-study, practice) |  |  | 0 |
| Assignments Mid-terms |  |  | 0 |
| Final examination |  |  | 0 |
| Other |  |  | 0 |
| **Total Workload** | **0** |
| **ECTS Credit (Total workload/25)** | **0** |

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**Peer review**

|  |  |  |
| --- | --- | --- |
| Signature: | Signature: | Signature: |
| Name: | Name: | Name: |
| Lecturer                                                                       | Head of Department                                                         | Dean |

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