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| **ISHIK UNIVERSITY FACULTY OF SCIENCE Department of INFORMATION TECHNOLOGY,2017-2018 Spring Course Information for** **IT 404 FINAL YEAR PROJECT II** |

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| --- | --- |
| **Course Name:** | FINAL YEAR PROJECT II |
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| --- | --- | --- | --- | --- | --- | --- |
| **Code** | **Course type** | **Regular Semester** | **Theoretical** | **Practical** | **Credits** | **ECTS** |
| IT 404 | 2 | 8 | 3 | - | 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:** | Via this course students will learn how to perform an academic research, how to document a research and how to present a research to a committee. Besides of conducting an academic research, via this course students will also learn how to implement the thoughts what they have learned in daily life and how to accomplish a group project where members share different tasks. |
| **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**

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| --- | --- | --- | --- |
| **Week** | **Hour** |               **Date**               | **Topic** |
| **1** | 3 | 4-8/2/2018 | Setting the new meeting date and time with supervisor. |
| **2** | 3 | 11-15/2/2018 | A short review of the first semester ( final year project-1 ) and sharing the commands of first semester. Tasks will be given for the development of project. |
|  |  |  |  |
| **3** | 3 | 18-22/2/2018 | Students will share their feedback about development of project, Supervisor will assist. |
| **4** | 3 | 25/2-1/3/2018 | Students will share their feedback about development of project, Supervisor will assist. |
|  |  |  |  |
| **5** | 3 | 4-8/3/2018 | Students will share their feedback about development of project, Supervisor will assist. |
| **6** | 3 | 25-29/3/2018 | Students will share their feedback about development of project, Supervisor will assist. |
|  |  |  |  |
| **7** | 3 | 1-5/4/2018 | Midterm Exam |
| **8** | 3 | 8-12/4/2018 | Students will share their feedback about development of project, Supervisor will assist. |
|  |  |  |  |
| **9** | 3 | 15-19/4/2018 | The distributed tasks will be merged in to one complete form and perform testing about the implementation of project. |
| **10** | 3 | 22-26/4/2018 | Accordingly test results, some modifications will be performed on the project. |
|  |  |  |  |
| **11** | 3 | 29/4-3/5/2018 | Projects will be presented at the NICE2018 competition. |
| **12** | 3 | 6-10/5/2018 | Accordingly the feedback, (at NICE2018 competition) modifications will be performed. |
|  |  |  |  |
| **13** | 3 | 13-17/5/2018 | Debugging and user interface problems will be resolved. A group will start typing implementation chapter of the research. |
| **14** | 3 | 20-24/5/2018 | A group will perform the project and collect some outputs to form discussion and conclusion chapter. Group will continue to type implementation chapter. |
|  |  |  |  |
| **15** | 3 | 27-31/5/2015 | Final Exam |
| **16** | 3 | 3-7/6/2018 | Final Exam |
|  |  |  |  |
| **17** | 3 | 10-14/6/2018 |  |

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| **COURSE/STUDENT LEARNING OUTCOMES**

|  |  |
| --- | --- |
|  |  |
| **1** | Students will be able to perform a practice for an academic research. |
| **2** | Students will be able to find conclusions of performed practice. |
| **3** | Students will be able to document an academic research. |
| **4** | Students will be able to present a research. |
| **5** | Students will be able to share the tasks in a group project. |

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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 | P |
| **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 | I |
| **9** | An ability to effectively integrate IT-based solutions into the user environment | P |
| **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 |  |
| **12** | An ability to select, design, integrate and administer IT-based solutions into the organizational environment | I |

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| **Prerequisites (Course Reading List and References):** | Research methodology |
| **Student's obligation (Special Requirements):** | Ability to perform a an academic research. |
| **Course Book/Textbook:** | Experimentation in Software Engineering Authors: Wohlin, C., Runeson, P., Höst, M., Ohlsson, M.C., Regnell, B., Wesslén, A. How to write a thesis in an Experimental area of Computer Science by Doug Comer. Information Technology Research — A Practical Guide for Computer Science and Informatics Olivier |
| **Other Course Materials/References:** | Guidance of supervisor |
| **Teaching Methods (Forms of Teaching):** | Practical Sessions, Presentation, Self Evaluation, Project, Assignments |
| **COURSE EVALUATION CRITERIA**

|  |  |  |
| --- | --- | --- |
| **Method** | **Quantity** | **Percentage (%)** |
| Attendance | 1 | 10 |
| Participation | 1 | 20 |
| Project | 1 | 20 |
| Presentation | 1 | 10 |
| Final Exam | 1 | 40 |
| **Total** | **100** |
| **Examinations:**True-False, Fill in the Blanks, Multiple Choices, Short Answers, Matching |  |  |

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| **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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