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| **ISHIK UNIVERSITY FACULTY OF SCIENCE Department of INFORMATION TECHNOLOGY,2017-2018 Spring Course Information for IT 350 WEB TECHNOLOGIES** |

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| --- | --- |
| **Course Name:** | WEB TECHNOLOGIES |
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|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Code** | **Course type** | **Regular Semester** | **Theoretical** | **Practical** | **Credits** | **ECTS** |
| IT 350 | 2 | 7 | 2 | 2 | 3 |  |

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| **Name of Lecturer(s)-Academic Title:** | Mohammed Abdulghani - |
| **Teaching Assistant:** | - |
| **Course Language:** | English |
| **Course Type:** | Non-area Elective |
| **Office Hours** | 3  |
| **Contact:** | Email:mohammed.abdulghani@ishik.edu.iq Tel:+9647504450908  |
| **Teacher's academic profile:** | Bsc. Salahaddin University/ Software Engineering (Search Engine)/Kurdistan, Iraq. Msc. Bahcesehir Unversity/ Computer Engineering (Bioinformatics)/Turkey PhDc Neareast University/ Computer Engineering (Computer Vision)/North Cypurs  |
| **Course Objectives:** | This course is aimed to train students to build an online application via PHP and MySQL. At the first few lessons HTML 5 and CSS3 will be revised. After students had the basics about HTML5 and CSS3 students will continue training on PHP and MySQL |
| **Course Description (Course overview):** | Web technology is not at solid state, it changes rapidly due to demands of users and development of new hardware. This course is aimed to discuss the recent trends of web technologies, such as HTML5 and CSS3. After this course is completed students will be far beyond the basics and able to build dynamic websites with user interactions. This course covers the core of web development tools and illuminates some approaches of web site development; the rest is all about imagination. |
| **COURSE CONTENT**

|  |  |  |  |
| --- | --- | --- | --- |
| **Week** | **Hour** |               **Date**               | **Topic** |
| **1** | 2 | 8-12/10/2017 | XAMP Server, XAMP Files and Solving Error, Getting the Editor, Document Overview |
| **2** | 2 | 15-19/10/2017 | Variable, Constants, Strings, Numbers |
|  |  |  |  |
| **3** | 2 | 22-26/10/2017 | Arrays, Arrays Functions, Building Blocks of PHP, If-Statements |
| **4** | 2 | 29/10-2/11/2017 | Arrays Quiz, Operators, For Loop, While Loops, For-each Loops, Switch Statements |
|  |  |  |  |
| **5** | 2 | 5-9/11/2017 | Branching, User Define Functions,Re-usability, Static Variables, Local |
| **6** | 2 | 12-16/11/2017 | Variables, Global Variables, Super Global Variables |
|  |  |  |  |
| **7** | 2 | 19-23/11/2017 | Midterm Exam |
| **8** | 2 | 26-30/11/2017 | Super Global Post Variable, Form, Regular Expression |
|  |  |  |  |
| **9** | 2 | 3-7/12/2017 | Form Validation Pro |
| **10** | 2 | 10-14/12/2017 | URL, Links, Dynamic Web Pages Project, |
|  |  |  |  |
| **11** | 2 | 17-21/12/2017 | Cookie, Session, Server, |
| **12** | 2 | 24-28/12/2017 | ? |
|  |  |  |  |
| **13** | 2 | 31/12/2017-4/1/2018 | The Giant CMS, Project |
| **14** | 2 | 7-11/1/2018 | Projects |
|  |  |  |  |
| **15** | 2 | 14-18/1/2018 | Final Exam |
| **16** | 2 | 21-25/1/2018 | Final Exam |
|  |  |  |  |

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| **COURSE/STUDENT LEARNING OUTCOMES**

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| --- | --- |
|  |  |
| **1** | Students can convert a static website into dynamic website |
| **2** | Students can change the content of website via collected information from user |
| **3** | Students can collect multiple pages into one united structure via URL encoding |
| **4** | Students can connect a website to a database and build a simple database for the need |
| **5** | Students can perform four essential progresses (Create/Read/Update/Delete) on the database |

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

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| --- | --- | --- |
|  | **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 | P |
| **4** | An understanding of professional, ethical, legal, security, social, and economic issues and responsibilities | I |
| **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 | I |
| **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 | I |
| **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 | P |
| **10** | An ability apply problem solving skills, core IT concepts, best practices and standards to information technologies | I |
| **11** | An ability to identify and evaluate organizational requirements and current and emerging technologies | P |
| **12** | An ability to select, design, integrate and administer IT-based solutions into the organizational environment | A |

 |
| **Prerequisites (Course Reading List and References):** | Web design, Web Programming courses should be taken |
| **Student's obligation (Special Requirements):** | Students are required to join the related Edmodo class and follow all the updates from there. |
| **Weekly Laboratory/Practice Plan:** |

|  |  |  |  |
| --- | --- | --- | --- |
| **Week** | **Hour** |               **Date**               | **Topics** |
| 1 | 2 | 8-12/10/2017 | XAMP Server, XAMP Files and Solving Error, Getting the Editor, Document Overview |
| 2 | 2 | 15-19/10/2017 | Variable, Constants, Strings, Numbers |
|  |  |  |  |
| 3 | 2 | 22-26/10/2017 | Arrays, Arrays Functions, Building Blocks of PHP, If-Statements |
| 4 | 2 | 29/10-2/11/2017 | Branching, User Define Functions,Re-usability, Static Variables, Local |
|  |  |  |  |
| 5 | 2 | 5-9/11/2017 | Variables, Global Variables, Super Global Variables |
| 6 | 2 | 12-16/11/2017 | Super Global Post Variable, Form, Regular Expression |
|  |  |  |  |
| 7 | 2 | 19-23/11/2017 | Form Validation Pro |
| 8 | 2 | 26-30/11/2017 | URL, Links, Dynamic Web Pages Project, |
|  |  |  |  |
| 9 | 2 | 3-7/12/2017 | Cookie, Session, Server, |
| 10 | 2 | 10-14/12/2017 | Employee Management Crud Application, Working with DataBase |
|  |  |  |  |
| 11 | 2 | 17-21/12/2017 | Projects |
| 12 | 2 | 24-28/12/2017 |  |
|  |  |  |  |
| 13 | 2 | 31/12/2017-4/1/2018 |  |
| 14 | 2 | 7-11/1/2018 |  |
|  |  |  |  |
| 15 | 2 | 14-18/1/2018 |  |
| 16 | 2 | 21-25/1/2018 |  |
|  |  |  |  |

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| **Course Book/Textbook:** | PHP and MySQL web development -Developer's Library | Luke Welling and Laura Thomson- |
| **Other Course Materials/References:** | w3schools.com, html5doctor.com, Lynda.com, php.net |
| **Teaching Methods (Forms of Teaching):** | Lectures, Practical Sessions, Presentation, Project |
| **COURSE EVALUATION CRITERIA**

|  |  |  |
| --- | --- | --- |
| **Method** | **Quantity** | **Percentage (%)** |
| Attendance | 1 | 5 |
| Quiz | 3 | 5 |
| Homework | 2 | 5 |
| Project | 1 | 10 |
| Midterm Exam(s) | 1 | 20 |
| Lab/Practical Exam(s) |  |  |
| Final Exam | 1 | 40 |
| **Total** | **100** |
| **Examinations:**True-False, Multiple Choices, Short Answers |  |  |

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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) | 2 | hours | 0 |
| Assignments Mid-terms | 1 |  | 0 |
| Final examination | 1 |  | 0 |
| Other |  |  | 0 |
| **Total Workload** | **0** |
| **ECTS Credit (Total workload/25)** | **0** |

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**Peer review**

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

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