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| **ISHIK UNIVERSITY FACULTY OF SCIENCE Department of INFORMATION TECHNOLOGY,2017-2018 Spring Course Information for** **IT 204 PROGRAMMING II** |

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| --- | --- |
| **Course Name:** | PROGRAMMING II |
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| --- | --- | --- | --- | --- | --- | --- |
| **Code** | **Course type** | **Regular Semester** | **Theoretical** | **Practical** | **Credits** | **ECTS** |
| IT 204 | 2 | 4 | 3 | 2 | 4 |  |

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| **Name of Lecturer(s)-Academic Title:** | Bilal Ahmed - |
| **Teaching Assistant:** | Mohammed kamal - Samiha Alhabal |
| **Course Language:** | English |
| **Course Type:** | Non-area Elective |
| **Office Hours** | Sunday- 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 is to make students be familiar with .NET framework and Visual C# programming language. Students will learn C# as their second programming language to build Windows form Applications (GUI) (Bssic) level. The students will be able to create desktop applications upon completing the course. The course will introduce Microsoft SQL server to the students and will demonstrate how they will connect their database to the Applications they create. Finally the course is aiming to cover an introduction about Object Oriented concept. |
| **Course Description (Course overview):** | familiarity with .NET framework and Visual C# programming language is a powerful tool to develop applications in different range of domains. Students will learn C# as their second programming language to build Windows form Applications (GUI)(Basic). The students will be able to create desktop applications upon completing the course. The course will introduce Microsoft SQL server to the students and will demonstrate how they will connect their database to the Applications they create. Finally the course is aiming to cover an introduction about Object Oriented concept. |
| **COURSE CONTENT**

|  |  |  |  |
| --- | --- | --- | --- |
| **Week** | **Hour** |               **Date**               | **Topic** |
| **1** | 3 | 4-8/2/2018 | Introduction to Csharp Programming Language 1 |
| **2** | 3 | 11-15/2/2018 | Introduction to .NET Framework |
|  |  |  |  |
| **3** | 3 | 18-22/2/2018 | What is New In VS IDE |
| **4** | 3 | 25/2-1/3/2018 | Introduction to Csharp Programming Language 2 |
|  |  |  |  |
| **5** | 3 | 4-8/3/2018 | Visual Csharp Components |
| **6** | 3 | 25-29/3/2018 | Visual Csharp Components |
|  |  |  |  |
| **7** | 3 | 1-5/4/2018 | Midterm Exam |
| **8** | 3 | 8-12/4/2018 | Visual Csharp properties and Events |
|  |  |  |  |
| **9** | 3 | 15-19/4/2018 | Midterm Exam |
| **10** | 3 | 22-26/4/2018 | WFA Design concepts |
|  |  |  |  |
| **11** | 3 | 29/4-3/5/2018 | WFA Project 1 |
| **12** | 3 | 6-10/5/2018 | WFA Project 2 |
|  |  |  |  |
| **13** | 3 | 13-17/5/2018 | WFA and MySQL server |
| **14** | 3 | 20-24/5/2018 | Course Project Submission |
|  |  |  |  |
| **15** | 3 | 27-31/5/2018 | Final Exam |
| **16** | 3 | 3-7/6/2018 | Final Exam |
|  |  |  |  |
| **17** | 3 | 10-14/6/2018 | Final Exam |

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| **COURSE/STUDENT LEARNING OUTCOMES**

|  |  |
| --- | --- |
|  |  |
| **1** | To have improved teamwork and problem solving skills. |
| **2** | To have a good and practical knowledge of C# and .NET framework. (Basic) |
| **3** | Create Console Applications using C# |
| **4** | Create Windows Form Applications using C# |
| **5** | To have a good and practical knowledge of Microsoft Visual Studio as a development tool. (Basic) |

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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 | P |
| **3** | An ability to function effectively on teams to accomplish a common goal | I |
| **4** | An understanding of professional, ethical, legal, security, social, and economic issues and responsibilities |  |
| **5** | An ability to analyze the local and global impact of computing on individuals, organizations, and society | I |
| **6** | An ability to use current techniques, skills, and tools necessary for computing practice | P |
| **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 |  |
| **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 |  |
| **9** | An ability to effectively integrate IT-based solutions into the user environment |  |
| **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 |  |
| **12** | An ability to select, design, integrate and administer IT-based solutions into the organizational environment |  |

 |
| **Prerequisites (Course Reading List and References):** | Previous Programming experience, at least passed Programming Fundamentals Course |
| **Student's obligation (Special Requirements):** | Install MS Visual Studio 2015 to their personal computer. |
| **Weekly Laboratory/Practice Plan:** |

|  |  |  |  |
| --- | --- | --- | --- |
| **Week** | **Hour** |               **Date**               | **Topics** |
| 1 | 2 | 4-8/2/2018 | First Csharp Application |
| 2 | 2 | 11-15/2/2018 | Csharp Console Application 1 |
|  |  |  |  |
| 3 | 2 | 18-22/2/2018 | Csharp Console Application 2 |
| 4 | 2 | 25/2-1/3/2018 | Csharp Console Application 2 |
|  |  |  |  |
| 5 | 2 | 4-8/3/2018 | Toolbox- Solution Explorer- Components |
| 6 | 2 | 25-29/3/2018 | Windows Form Application Project 1 |
|  |  |  |  |
| 7 | 2 | 1-5/4/2018 | Midterm Exam |
| 8 | 2 | 8-12/4/2018 | Visual Csharp properties and Events |
|  |  |  |  |
| 9 | 2 | 15-19/4/2018 | Visual Csharp properties and Events |
| 10 | 2 | 22-26/4/2018 | WFA Project 1 |
|  |  |  |  |
| 11 | 2 | 29/4-3/5/2018 | WFA Project 2 |
| 12 | 2 | 6-10/5/2018 | WFA and MySQL server |
|  |  |  |  |
| 13 | 2 | 13-17/5/2018 | WFA and MySQL server |
| 14 | 2 | 20-24/5/2018 | Course Project Submission |
|  |  |  |  |
| 15 | 2 | 27-31/5/2018 | Final Exam |
| 16 | 2 | 3-7/6/2018 | Final Exam |
|  |  |  |  |
| 17 | 2 | 10-14/6/2018 |  |

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| **Course Book/Textbook:** | Dietels C# 6 for programmers, 6/e http://www.deitel.com/Books/C/C6forProgrammersSixthEdition/tabid/3682/Default.aspx |
| **Other Course Materials/References:** | Microsost Visual C# step by step Eighth edition https://blogs.msdn.microsoft.com/microsoft\_press/2015/11/04/new-book-microsoft-visual-c-step-by-step-eighth-edition/ |
| **Teaching Methods (Forms of Teaching):** | Lectures, Excersises, Presentation, Project, Assignments |
| **COURSE EVALUATION CRITERIA**

|  |  |  |
| --- | --- | --- |
| **Method** | **Quantity** | **Percentage (%)** |
| Participation | 1 | 10 |
| Project | 1 | 10 |
| Midterm Exam(s) | 1 | 30 |
| Laboratory | 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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