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| **Faculty of Information Technology** | | | **Faculty Name** |
| **Computer Science Department** | | | **Department** |
| **Computer Science** | | | **Academic Program** |
| **19041204** | **Course Number** | **Object Oriented Programming** | **Course Name** |
|  | **Semester** | **2023-2024** | **Academic Year** |
| **Computer Programming I & Computer Programming II** | | | **Pre-requisite** |
| **Jomana Yousef Khaseeb** | | | **Instructor** |
| **D-304** | **Lab** | **Sunday, Monday and Tuesday 10-12** | **The Time of Lecture** |
| **Provide students with knowledge and needed skills to design and develop object oriented programs.** | | | **Course Description** |
| 1. **Formulate problems and how to think about a solution.** 2. **Use object-oriented programming concepts to solve problems.** | | | **Object Oriented Programming aims to:** |
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| 1. **Java How to Program, Deitel & Deitel. .** | | | **Textbook** |
| 1. **Use LMS.** 2. **Use NetBeans program.** | | | **Other Resources Used:** |

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| **Teaching Methods** | |
| **Teaching Methods** | **Outputs** |
| **Practical lectures and worksheets** |  |
| **Discussion sessions, brainstorming, and homework.** |  |
| **Course project** |  |

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| **Course evaluation criteria** | | | |
| **Evaluation** | **Details of the assessment and the targeted educational outcomes** | **Weight** | **Time** |
| **Midterm** | **Midterm exam held in the 8th week** | **35%** | **Week 8** |
| **Assignments** | **Assignments through LMS** | **20%** |  |
| **Final Exam** | **Final exam held in the 15th week** | **45%** | **Week 16** |
| **Total** |  | **100%** |  |

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| **Learning Outcomes** | | | | | | |
| **Learning Outcomes** |  | | | | | |
|  | **#1** | **#2** | **#3** | **#4** | **#5** | **#6** |
| 1. **Formulate problems and how to think about a solution.** | **√** | **√** | **√** |  |  | **√** |
| 1. **Use object-oriented programming concepts to solve problems.** | **√** | **√** | **√** | **√** | **√** | **√** |

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| **Week #** |  | **Subject** | **Subject** | **Assessment** |
| **1,2** |  | **Classes** |  | **1+2** |
| **3** |  | **Overloading** |  | **1+2** |
| **4،5** |  | **Data Abstraction** |  | **1+2** |
| **6،7** |  | **Encapsulation** |  | **1+2** |
| **8,9** |  | **Inheritance** |  | **1+2** |
| **Mid-Term** | | | | |
| **10,11** |  | **Polymorphism** |  | **1+2+3** |
| **12,13** |  | **File Processing** |  | **1+2+3** |
| **14,15** |  | **Exceptions** |  | **1+2+3** |
| **Final** | | | | |

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| **Instructor Name** | **Dr. Jomana Yousef Khaseeb** |  |  |