

**Jerash University**

**Faculty of Computer Science and Information Technology**

**Computer Sciences Department**

**Semester**: Fall Semester 2018/2019

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| **Course symbol and number: 1001442** | **Course Name:** منهجيات تصميم البرمجيات |
| **Teaching Language:** English | **Prerequisites: 1002321** |
| **Credits:** 3 hours**.** | **Course Level:** 100 |

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| **Course Description** |
| Study of advanced principles and practices in software engineering-including evolutionary software development, software prototyping, object-oriented analysis and design, software system architectures, software project management, software testing, software metrics and measurement, software quality assurance, software reuse, software maintenance, reverse engineering, and computer-aided software engineering. |

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| **Course Objectives** |
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| **Learning Outcomes** |
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|  | **Text Book(s)** |
| **Title** | Software Engineering: A Practitioner's Approach |
| **Author(s)** | Roger S Pressman |
| **Publisher** | McGraw Hill, |
| **Year** | 2006 |
| **Edition** | 6th Edition, |

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|  | **References** |
|  | Lecture Note |
| **Internet links** | http://www.jpu.edu.jo/lms |
| **Course link** | [Click here](http://www.jpu.edu.jo/lms) |

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|  | **Instructors** |
| **Instructor** |  |
| **Office Location** |  |
| **Office Phone** |  |
| **E-mail** |  |

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| **Topics Covered** | | | |
| **Topics** | **Chapters in Text** | **Week number** | **Teaching hours** |
| **Introduction** | **Ch.2** | **1** |  |
| **An Agile view of progress** | **Ch. 3** | **2, 3** |  |
| Software Engineering Practice | **Ch.4** | **4,5,6** |  |
| **Requirements Engineering** | **Ch. 5** | **6, 7** |  |
| Requirements Modeling | **Ch.6** | **8** |  |
| **Design Engineering** | **Ch.7** | **9-10** |  |
| **Architectural Design** | **Ch.8** | **12, 13** |  |

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|  | **Evaluation** |  |
| **Assessment Tool** | **Expected Due Date** | **Weight** |
| Programming assignments and LMS |  | 20 % |
| First Exam |  | 20 % |
| Second Exam |  | 20 % |
| Final Exam | According to the University final examination schedule | 40 % |

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|  | **Policy** |
| **Attendance** | Attendance is very important for the course. In accordance with university policy, students missing more than the allowed absence rate of total classes are subject to failure. Penalties may be assessed without regard to the student's performance. Attendance will be recorded at the beginning or end of each class. |
| **Exams** | All exams will be CLOSE-BOOK; necessary algorithms/equations/relations will be supplied as convenient. |

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| **Class Schedule & Room** |

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| **Office Hours** | | |
| Sun: 8 - 9  Mon: 8 - 9:30  Tues: 11- 12  Wed: 11 – 12:30 | | |
|  | \* Or by an appointment through email |  |

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|  | **Teaching Assistant** |
| To announced later on. |  |

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|  | **Prerequisites** |
| **Prerequisites by course** |  |