**The University of Jordan**
**School of Engineering**
**Industrial Engineering Department**
**1st Semester 2021/2022**

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| Course name: | Project Management | | | |
| Course code: | IE0906522 | | | |
| Credits hours | 3 | | | |
| Contact hours& room\office hours: | Sunday, Tuesday, Thursday (12:30-13:30) | | | |
| Course instructor's name, E-mail, and phone: | Lina Al-Qatawneh<br>lqatawneh@ju.edu.jo<br>22932 | | | |
| Course Coordinator: | Lina Al-Qatawneh | | | |
| Text book: | Project Management: The Managerial Process. Gray, C.F. and Larson, E.W., McGraw-Hill/Irwin, 7th Edition, 2018 | | | |
| Other reference(s): | Project management: A Managerial Approach. Jack R. Meredith and Samuel J. Mantel, Jr, John Wiley & Sons Inc., 7th Edition, 2009. | | | |
| Course Description: | Basics of project management and its importance in project success and the achievements of objectives within constraints of time, budget, and standards. Comprehensive integrated planning for all the activities required for project success using the project life cycle, Gantt chart, activity on arrow, activity on node for scheduling time, expenditure, and resources, time/cost analysis and resource allocation. | | | |
| Providing Department: | Industrial Engineering | | | |
| Prerequisite Course: | Statistical Quality Control (0906358) | | | |
| Course type | Technical Elective | | | |
| Assessment Methods: | Method | Weight % | Date | |
| | Quizzes | 15 | | |
| | Mid Exam | 35 | | |
| | Final Exam | 50 | | |
| | Total | 100 | | |

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| Course Learning Outcomes: | # | After successful completion of this course, the student will be able to | SO | |
| | CLO1 | Apply major approaches for defining project scope, priorities and breakdown structure. | 1,2 | |
| | CLO2 | Apply top-down and bottom-up approaches for estimating project times and costs. | 1,2 | |
| | CLO3 | Apply the activity-on-node approach for developing project networks and calculating activity times. | 1,2 | |
| | CLO4 | Apply major approaches for managing risks in projects. | 1,2,4 | |
| | CLO5 | Apply major approaches for scheduling resources and costs of projects. | 1,2 | |
| | CLO6 | Apply the time/cost analysis approach for reducing project duration. | 1,2 | |

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| | CLO7 | Apply the Earned Value Cost/Schedule System for measuring and evaluating project progress and performance | 1,2 | |

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| Brief list of topics | Week # | Topic |
| | 1 | Introduction to project management |
| | 2-3 | Defining the project |
| | 4 | Estimating project times and costs |
| | 5-8 | Developing a project plan |
| | 9-10 | Managing risk |
| | 11-12 | Scheduling resources |
| | 13 | Reducing project duration |
| | 14-15 | Progress and performance measurement and evaluation |

Important Notes:

- Do not hesitate to ask questions
- You are required to bring a notebook and take notes in classes.
- Students are expected to attend every class session and they are responsible for all material, announcements, schedule changes, etc., discussed in class.
- Discuss the assignments among yourselves
- Don't Cheat; direct copying of others work will NOT be allowed or tolerated and will result in a reduction of grade. If you are found to be cheating in any way, on an exam or assignment, even signing the roll sheet for another student, you will be given an "F" for the course. There will be no exceptions.
- All cases of academic dishonesty will be handled in accordance with university policies and regulations. JU policy requires the faculty member to assign ZERO grade (F) if a student misses 15% of the classes that are not excused, and 20% of the classes that are excused
- Students are expected to be ready to take a quiz any time they have a class. There will be no make-up quizzes or home works.
- Any students with disabilities who need accommodations in this course are encouraged to speak with the instructor as soon as possible to make appropriate arrangements for these accommodations.

| ***The B.Sc. in industrial Engineering program enables students to achieve, by the time of graduation the following program learning outcome (SOs)*** | |
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| *1* | *an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics* |
| *2* | *an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors* |
| *3* | *an ability to communicate effectively with a range of audiences* |
| *4* | *an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts* |
| *5* | *an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives* |
| *6* | *an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions* |
| *7* | *an ability to acquire and apply new knowledge as needed, using appropriate learning strategies* |