Course name: Reliability and Maintainability
Course code: 0936561
Credits hours: 3
Contact hours/room: 001 Industrial
Course instructor’s name, E-mail, and phone: Prof. Abbas Al-Refaie
abbas.alrefai@ju.edu.jo
22928
Course Coordinator: Prof. Abbas Al-Refaie
Other reference(s): Statistical and analytical concepts of failures, failure and reliability models, life-cycle of machines and its relation with reliability and maintainability, reliability and quality, project etc.
Course Description: Statistical and analytical concepts of failures, failure and reliability models, life-cycle of machines and its relation with reliability and maintainability, reliability and quality, project etc.
Providing Department: Industrial Engineering
Prerequisite Course: Quality Control (906352)
Course type: Elective
Assessment Methods: Method | Weight % | Date
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First Exam | 30% | 
Mid Exam | 30% | 
Projects | 0%-5% | 
Final Exam | 40% | 

Course Learning Outcomes:

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<th>After successful completion of this course, the student will be able to</th>
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<tr>
<td>CLO1</td>
<td>To understand the theory and concepts of reliability and maintainability engineering, and maintenance</td>
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<td>CLO2</td>
<td>Be able to estimate the reliability estimation for components and systems.</td>
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<td>CLO3</td>
<td>Be able to perform analysis of reliability for static and dynamic systems</td>
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<td>CLO4</td>
<td>Be able to design and conduct ACL, FMEA, FTA, QFD.</td>
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Brief list of topics | Week # | Topic
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.