

SYLLABUS

Code/Name	MCE 101 / Introduction to Mechanical Engineering
Type	Required
Credit/ECTS	2/3
Hour per Week	2 (2+0+0)
Level/Year	Undergraduate/1
Semester	Fall
Classroom	A203
Content	Overview of the major fields of mechanical engineering including design and manufacturing, theory of machines, solid mechanics, fluid mechanics, thermal sciences, and energy systems. Project planning and implementation. Introductory concepts of engineering design process and statistical methods. Oral and written presentation and professional writing. General and professional ethics. Invited speakers from the graduates and industry.
Prerequisites	NA
Textbooks	Primary J Wickert, K Lewis, <i>An Introduction to Mechanical Engineering</i>, 4th edition, Cengage Learning, 2020. Supplementary Class notes
Objectives	• To familiarize first year mechanical engineering students with the major • To provide pillars of mechanical engineering and main applications • To raise awareness in engineering design, analysis, and professional ethics
Course Outcomes	In this course you will be able to: C01 Outline the scope and applications of mechanical engineering C02 Classify fundamental areas and main courses of mechanical engineering C03 Organize project planning and implementation C04 Demonstrate engineering design process and analysis methods C05 Use oral and written presentation effectively C06 Practice professional responsibilities and ethics.

Weekly Schedule of Topics

W	Topic
1	Why mechanical engineering?
2	Introduction to design and manufacturing
3	Introduction to theory of machines
4	Introduction to solid mechanics
5	Introduction to energy
6	Introduction to fluid mechanics
7	Project planning and implementation
8	Engineering design process
9	Statistical methods
10	Oral and written presentation
11	Professional responsibility and ethics
12	Invited speaker from the graduates or industry

13	Invited speaker from the graduates or industry
14	Invited speaker from the graduates or industry

Professional Contribution	Understand the field of mechanical engineering and its applications
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Contribution to Program Outcomes*

	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011
C01	2	0	1	2	0	2	1	0	0	2	0
C02	1	0	0	1	0	0	1	0	0	1	1
C03	0	2	0	3	2	0	2	4	5	1	2
C04	4	0	2	5	0	0	0	0	0	5	4
C05	0	0	0	0	5	0	0	0	0	0	0
C06	0	5	0	0	0	0	0	0	0	0	0

* Contribution Level | 0: None | 1: Very Low | 2: Low | 3: Medium | 4: High | 5: Very High

Special Conditions	• Students work in groups for project and presentations.								
Requirements	NA								
Evaluation	<table> <tr> <td>Midterm Exam</td><td>40%</td></tr> <tr> <td>Quiz</td><td>20%</td></tr> <tr> <td>Final Exam</td><td>40%</td></tr> <tr> <td>Total</td><td>100%</td></tr> </table>	Midterm Exam	40%	Quiz	20%	Final Exam	40%	Total	100%
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Quiz	20%								
Final Exam	40%								
Total	100%								
Rubric	NA								
Course Policy	- Students are required to attend at least 70% of the theoretical and 80% of the courses with lab/application sessions including add-drop period. Otherwise, you will receive a grade of DZ. Health reports and other official or nonofficial excuses are not accepted. - Be in the class on time. Late attendance may result in grade deductions. - English should always be used to communicate with one another. - Mobile phone should be switched off and put away during the class. - Illegal copies of the textbooks and other illegal course materials cannot be used for the classwork and exams.								
Cheating & Plagiarism	- Copying or letting someone to copy your work on exams, assignments, or reports is cheating. - Cutting and pasting text, figures and tables from the web sources or any other electronic source is plagiarism. - A consequence of academic dishonesty is to receive a grade of FF for the course.								

Instructor

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