



<b>Form:</b> <b>Course Syllabus</b>	<b>Form Number</b>	EXC-01-02-02A
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	<b>Number of Pages</b>	06

### Course Syllabus

1	<b>Course title</b>	Mechatronics Engineering Skills and Ethics	
2	<b>Course number</b>	0908101	
3	<b>Credit hours</b>	2	2
	<b>Contact hours (theory, practical)</b>	2 theoretical hours	
4	<b>Prerequisites/corequisites</b>	None	
5	<b>Program title</b>	B.Sc. in Mechatronics Engineering	
6	<b>Program code</b>	0908101	
7	<b>Awarding institution</b>	The University of Jordan	
8	<b>School</b>	School of Engineering	
9	<b>Department</b>	Mechatronics Engineering Department	
10	<b>Course level</b>	First Year	
11	<b>Year of study and semester (s)</b>	2023/2024 Second semester	
12	<b>Other department (s) involved in teaching the course</b>	None	
13	<b>Main teaching language</b>	English	
14	<b>Delivery method</b>	<input checked="" type="checkbox"/> Face to face learning <input type="checkbox"/> Blended <input type="checkbox"/> Fully online	
15	<b>Online platforms(s)</b>	<input checked="" type="checkbox"/> Moodle <input type="checkbox"/> Microsoft Teams <input type="checkbox"/> Skype <input type="checkbox"/> Zoom <input type="checkbox"/> Others.....	
16	<b>Issuing/Revision Date</b>	5/10/2023	

17 Course Coordinator:





Skills	B1	Design and implement an effective Engineering Solutions	
	B2	Evaluate and apply basic MS Word, Excel and Project.	
	B3		
	B4		
Competence	C1	Demonstrate competency in basic leadership and team working skills.	
	C2	Apply time management skills.	

## 22 Course aims and outcomes:

### A- Aims:

The course motivates the student to acquire the knowledge, skills and attitudes necessary to succeed in an engineering profession, and helps building teamwork, communication skills and ethical responsibility.

### B- Students Learning Outcomes (SLOs):

Upon successful completion of this course, students will be able to:

SLOs	SLO (1)	SLO (2)	SLO (3)	SLO (4)	SLO (5)	SLO (6)	SLO (7)
SLOs of the course							
1. Recognize the role of engineering design and engineering analysis in economy and society							X
2. Appreciate the importance of multidisciplinary teamwork in engineering practice					X		
3. Understand the ethical and social responsibility of engineers				X			
4. Recognize the importance of written and oral communication in the engineering profession			X				

## 23. Topic Outline and Schedule:



Week	Lecture	Topic	ILO/s Linked to the Topic	Learning Types (Face to Face/ Blended/)	Platform Used	Synchronous / Asynchronous	Evaluation Methods	Learning Resources
1	1.1	Course Overview	A1	Face to Face	Moodle Teams	Synchronous	Exams	E-learning portal + Book
	1.2	Course Introduction	A1	Face to Face	Moodle Teams	Synchronous	Exams	E-learning portal +
	1.3							
2	2.1	Chapter 1 (Definition and History)	B1	Face to Face	Moodle Teams	Synchronous	Exams	E-learning portal +
	2.2	Chapter 1 (Definition and History)	B1	Face to Face	Moodle Teams	Synchronous	Exams	Book
	2.3							
3	3.1	Chapter 2 (Mechatronics Engineering)	B1	Face to Face	Moodle Teams	Synchronous	Exams	E-learning portal +
	3.2	Chapter 2 (Mechatronics Engineering)	B1	Face to Face	Moodle Teams	Synchronous	Exams	Book
	3.3							
4	4.1	Chapter 3 (Statistics and Ethics)	C1	Face to Face	Moodle Teams	Synchronous	Homework, Exams	Book
	4.2	Chapter 3 (Statistics and Ethics)	C1	Face to Face	Moodle Teams	Synchronous	Homework, Exams	E-learning portal +
	4.3							
5	5.1	Chapter 3	B1	Face to Face	Moodle Teams		Exams	E-learning portal +



		(Statistics and Ethics)				Synchronou s		
	5.2	Chapter 4 (Classroom Skills)	B1	Face to Face	Moodle Teams	Synchronou s	Exams	Book
	5.3							
6	6.1	Chapter 4 (Classroom Skills)	B1	Face to Face	Moodle Teams	Synchronou s	Exams	Book
	6.2	Chapter 5 (Problem Solving)	B1	Face to Face	Moodle Teams	Synchronou s	Exams	E-learning portal +
	6.3							
7	7.1	Chapter 5 (Problem Solving)	B2	Face to Face	Moodle Teams	Synchronou s	Assignm ents, Exams	E-learning portal +
	7.2	Chapter 6 (Design Skills)	B2	Face to Face	Moodle Teams	Synchronou s	Assignm ents, Exams	Book
	7.3							
8	8.1	Mid Term Chapters (1-5)	B2	Face to Face	Moodle Teams	Synchronou s	Assignm ents, Exams	Book
	8.2	Mid Term Discussion	B2	Face to Face	Moodle Teams	Synchronou s	Assignm ents, Exams	E-learning portal +
	8.3							
9	9.1	Chapter 6 (Design Skills)	B1	Face to Face	Moodle Teams	Synchronou s	Assignm ents, Exams	E-learning portal +
	9.2	Chapter 7 (Project Management)	B2	Face to Face	Moodle Teams	Synchronou s	Assignm ents, Exams	Book



	9.3							
10	10.1	MS Project	B1	Face to Face	Moodle Teams	Synchronou s	Assignm ents, Exams	E-learning portal +
	10.2	MS Word	B1	Face to Face	Moodle Teams	Synchronou s	Assignm ents, Exams	Book
	10.3							
11	11.1	MS Excel	B2	Face to Face	Moodle Teams	Synchronou s	Assignm ents, Exams	Book
	11.2	Chapter 8 (Teamwork)	B1	Face to Face	Moodle Teams	Synchronou s	Assignm ents, Exams	E-learning portal +
	11.3							
12	12.1	Chapter 8 (Teamwork)	B2	Face to Face	Moodle Teams	Synchronou s	Assignm ents, Exams	E-learning portal +
	12.2	Chapter 9 (Communicatio n Skills)	A2	Face to Face	Moodle Teams	Synchronou s	Assignm ents, Exams	Book
	12.3							
13	13.1	Chapter 9 (Communicatio n Skills)	A2	Face to Face	Moodle Teams	Synchronou s	Assignm ents, Exams	Book
	13.2	Chapter 9 (Communicatio n Skills)	A2	Face to Face	Moodle Teams	Synchronou s	Assignm ents, Exams	E-learning portal +
	13.3		A2	Face to Face	Moodle Teams	Synchronou s	Assignm ents, Exams	Book
14	14.1	Course Feedback	A2	Face to Face	Moodle Teams	Synchronou s	Assignm ents, Exams	E-learning portal +
	14.2	Marks Feedback	C2	Face to Face	Moodle Teams	Synchronou s	Assignm ents, Exams	Book



	14.3							
15	15.1	Course Discussion and Feedback	C2	Face to Face	Moodle Teams	Synchronou s	Assignm ents, Exams	Book
	15.2							
	15.3							

#### 24. Evaluation Methods:

Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

Evaluation Activity	Mar k	Topic(s)	ILO/s Linked to the Evaluatio n activity	Period (Week)	Platfor m
Assignments	16	Eight Assignments	3		Moodle
Project	10	Chapter 7 & MS Project & MS Word	3	10 <sup>th</sup> week	Moodle
Midterm Exam	24	Chapters 1- 5	3	8 <sup>th</sup> week	Moodle
Final Exam	50	All topics	3		Moodle

#### 25. Course Requirements:

Each student should have a computer (with MS Project, MS Excel, and MS Word installed) and internet connection.

#### 26. Course Policies:

##### A- Attendance policies:



Students are expected to attend EVERY CLASS SESSION and they are responsible for all materials, announcements, schedule changes, etc., discussed in class

#### **B- Absences from exams and submitting assignments on time:**

There will be no make-up exams for any exam or missed assignment, which will be taken during the course. Exceptions to this rule is restricted only to the following cases:

- Death of only first order relatives (father, mother, sister, or brother).
- Hospital entry (inpatient) during the time of the examination.

Any other cases will be given the zero mark in the corresponding exam or assignment.

#### **C- Health and safety procedures:**

Students are responsible for:

- Keeping themselves informed of conditions affecting their health and safety;
- Participating in safety training programs;
- Following to health and safety practices in their workplace, classroom;
- Advising of or reporting unsafe practices or serious hazards in the classroom or laboratory.

#### **D- Honesty policy regarding cheating, plagiarism, misbehavior:**

Follow the UoJ guidelines that providing definitions, procedures, and recommendations for promotion and violation of academic honesty and integrity.

#### **E- Grading policy:**

Follow the UoJ guidelines that providing definitions of undergraduate grading policy

#### **F- Available university services that support achievement in the course:**

Text book, class handouts, and an access to Personal Computer with office software

### **27. References:**

#### **A- Required book(s), assigned reading and audio-visuals:**

Engineering Fundamentals: An Introduction to Engineering. 4th ed. By S. Moaveni, (2011).  
Cengage Learning

#### **B- Recommended books, materials, and media:**

Exploring Engineering: An Introduction to Engineering and Design. 2nd edition by P. Kosky, R. Balmer, W. Keat and G. Wise. (2010). Elsevier Inc.





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**28. Additional information:**

Name of the Instructor or the Course Coordinator:	Signature:	Date:
Dr. Musa Al Yaman	Musa	31/1/2024
Name of the Head of Quality Assurance Committee/ Department	Signature:	Date:
.....	.....	.....
Name of the Head of Department	Signature:	Date:
.....	.....	.....
Name of the Head of Quality Assurance Committee/ School or Center	Signature:	Date:
.....	.....	.....
Name of the Dean or the Director	Signature:	Date:
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