Faculty: Engineering Technology	
Department:Energy	**Program: Bachelor Degree**
Academic year: 2024 - 2025	**Semester:1^{st}(Fall)**

Course Plan

First: Course Information

Course No. 0906402	***Course Title:*Engineering Economy and Management**	***Credit Hours:3***
Prerequisite: 80 hours	***Section No.: 1***	***Lecture Time: 11-10:30,Sat, Mon,Wed***
Type Of Course:	☐ ***Obligatory Faculty Requirement*** ☐ ***University Requirement*** ☐ ***ObligatoryUniversity Requirement*** ■ ***FacultyRequirement*** ☐ ***Course Elective SpecialtyRequirementObligatorySpecialization requirement***	
Type of Learning:	☐ ***Face-to-Face Learning*** ■ ***BlendedLearning(2 Face-to-Face + 1Asynchronous)*** ☐ ***Online Learning (2 Synchronous+1 Asynchronous)***	

Second: Instructor's Information

Name: **Dr. Mais Alzgool**			***Academic Rank:*** **Assistant Professor**			
Office Number: 136 l			***Ext. Number: 2039***		***E-mail:*** maisalzgool@yahoo.com	
Office Hours:	***Sunday***	***Monday***	***Tuesday***	***Wednesday***	***Thursday***	
	1-2	12-1	1-2	12-1	12-1	

Third: Course Description

Foundations of engineering economy , factors accounting for time value of money (TMV) , combining factors , nominal and effective rates , present and future worth analysis , annual worth analysis , rate of return analysis : Single and multiple projects . Principles of engineering management.

Fourth: Learning Source

Main Reference:	***Engineering* Economy**	
Author:by Blank and Tarquin	***Issue No.:6th,ed***	***Publication Year:* (2017)**
Additional Sources&Websites:	• •	
Teaching Type:	☒ ***Classroom*** ☐ ***Laboratory*** ☐ ***WorkshopMS*** ☐ ***Teams*** ☐ ***Moodle***	

Fifth: Learning Outcomes

Course Code	***CourseIntendedLearning Outcomes (CILOs)***	***Connection To Program ILOs Code***
Knowledge		
**K1	**Identify** and solve time value of money problems.	*PK1
K2	**Apply** present, future , annual worths and internal rate of return analyses to solve economic problems.	PK2
Skills		
***S1	**Evaluate** multiple alternatives using economic factors to determine the best alternative ones	PS1
Competencies		
****C1	**Identify** engineering management principles	PC1

*** P: Program, **K: knowledge, ***S: skills, ****C: competencies.**

Sixth: Course Structure

Day	ILO	Topic(s)	Teaching Procedure*	Teaching Methods**	References***
13/10/2024		Introduction to atomic and nuclear physical	Interactive lectures,usingPPT slides/class notes, digital pen.	lecturing, discussion, problem solving.	University actual attendance
15/10/2024		Introduction to atomic and nuclear physical	Interactive lectures,usingPPT slides/class notes, digital pen.	lecturing, discussion, problem solving.	University actual attendance
17/10/2024		Introduction to atomic and nuclear physical	**Self-learning online activity**	**Education Video**	**Moodle**

Day	ILO	Topic(s)	Teaching Procedure*	Teaching Methods**	References***
20/10/2024		Introduction to atomic and nuclear physical	Interactive lectures,usingPPT slides/class notes, digital pen.	lecturing, discussion, problem solving.	University actual attendance
22/10/2024		Introduction to atomic and nuclear physical	Interactive lectures,using PPT slides/class notes, digital pen	lecturing, discussion, problem solving.	University actual attendance
24/10/2024		Introduction to atomic and nuclear physical	Self-learning online activity	Education Video	Moodle
27/10/2024		Introduction to atomic and nuclear physical	Interactive lectures,usingPPT slides/class notes, digital pen.	lecturing, discussion, problem solving.	University actual attendance
29/10/2024		Introduction to atomic and nuclear physical	Interactive lectures,usingPPT slides/class notes, digital pen.	lecturing, discussion, problem solving.	University actual attendance
31/10/2024		Introduction to atomic and nuclear physical	Self-learning online activity	Education Video.	Moodle
3/11/2024		Atomic structure	Interactive lectures,usingPPT slides/class notes, digital pen.	lecturing, discussion, problem solving.	University actual attendance
5/11/2024		Atomic structure	Interactive lectures,usingPPT slides/class notes, digital pen.	lecturing, discussion, problem solving.	University actual attendance
7/11/2024		Atomic structure	Self-learning online activity	Education Video.	Moodle
10/11/2024		Atomic structure		**Quiz 1**	University actual attendance
12/11/2024		Atomic structure	Interactive lectures,usingPPT slides/class notes, digital pen.	lecturing, discussion, problem solving.	University actual attendance
14/11/2024		Atomic structure	Self-learning online activity	Education Video.	Moodle
17/11/2024		Decay of radioactive nuclei	Interactive lectures,usingPPT slides/class notes, digital pen.	lecturing, discussion, problem solving.	University actual attendance
19/11/2024		Decay of radioactive nuclei	Interactive lectures,usingPPT slides/class notes, digital pen.	lecturing, discussion, problem solving.	University actual attendance

Day	ILO	Topic(s)	Teaching Procedure*	Teaching Methods**	References***
21/11/2024		Decay of radioactive nuclei	Self-learning online activity	Education Video.	Moodle
24/11/2024		Decay of radioactive nuclei	Interactive lectures,usingPPT slides/class notes, digital pen.	lecturing, discussion, problem solving.	University actual attendance
26/11/2024		Decay of radioactive nuclei	Interactive lectures,usingPPT slides/class notes, digital pen.	lecturing, discussion, problem solving.	University actual attendance
28/11/2024		Decay of radioactive nuclei	Self-learning online activity	Education Video.	Moodle
1/12/2024		Nuclear reactions Exam1 (up to end of week 5)	Interactive lectures,usingPPT slides/class notes, digital pen.	Student presenting role	University actual attendance
3/12/2024		Nuclear reactions Exam1 (up to end of week 5)	Interactive lectures,usingPPT slides/class notes, digital pen.	Student presenting role	University actual attendance
5/12/2024		Nuclear reactions Exam1 (up to end of week 5)	Self-learning online activity	Education Video.	Moodle
8/12/2024		Nuclear reactions Exam1 (up to end of week 5)	Interactive lectures,usingPPT slides/class notes, digital pen.	lecturing, discussion, problem solving.	University actual attendance
10/12/2024		Nuclear reactions Exam1 (up to end of week 5)	Interactive lectures,usingPPT slides/class notes, digital pen.	lecturing, discussion, problem solving.	University actual attendance
12/12/2024		Nuclear reactions Exam1 (up to end of week 5)	Self-learning online activity	Education Video.	Moodle
15/12/2024		Radiation detection	Interactive lectures,usingPPT slides/class notes, digital pen.	lecturing, discussion, problem solving.	University actual attendance
17/12/2024		Radiation detection	Interactive lectures,usingPPT slides/class notes, digital pen.	lecturing, discussion, problem solving.	University actual attendance
19/12/2024		Radiation detection	Self-learning online activity	Education Video.	Moodle
22/12/2024		Health physics	Interactive lectures,usingPPT slides/class notes, digital pen.	lecturing, discussion, problem solving.	University actual attendance

Day	ILO	Topic(s)	Teaching Procedure*	Teaching Methods**	References***
24/12/2024		Health physics	Interactive lectures,usingPPT slides/class notes, digital pen.	lecturing, discussion, problem solving.	University actual attendance
26/12/2024		Health physics	Self-learning online activity	Education Video.	Moodle
29/12/2024		Health physics	Interactive lectures,usingPPT slides/class notes, digital pen.	lecturing, discussion, problem solving.	University actual attendance
31/12/2024		Health physics	Interactive lectures,usingPPT slides/class notes, digital pen.	lecturing, discussion, problem solving.	University actual attendance
2/1/2025		Health physics	Self-learning online activity	Education Video.	Moodle
5/1/2025		Health physics	Interactive lectures,usingPPT slides/class notes, digital pen.	lecturing, discussion, problem solving.	University actual attendance
7/1/2025		Health physics	Interactive lectures,usingPPT slides/class notes, digital pen.	lecturing, discussion, problem solving.	University actual attendance
9/1/2025		Neutron interactions Exam2 (up to end of week 11	Interactive lectures,usingPPT slides/class notes, digital pen.	lecturing, discussion, problem solving.	University actual attendance
12/1/2025		Neutron interactions Exam2 (up to end of week 11	Interactive lectures,usingPPT slides/class notes, digital pen.	lecturing, discussion, problem solving.	University actual attendance
14/1/2025		Neutron interactions Exam2 (up to end of week 11	Interactive lectures,usingPPT slides/class notes, digital pen.	lecturing, discussion, problem solving.	University actual attendance
16/1/2025		Neutron interactions Exam2 (up to end of week 11	Interactive lectures,usingPPT slides/class notes, digital pen.	lecturing, discussion, problem solving.	University actual attendance

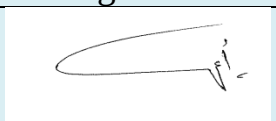
* Learning procedures: (Face-to-Face, synchronous, asynchronous). * * Teaching methods: (Lecture, video…..). ** * Reference: (Pages of the book, recorded lecture, video….)

Seventh: Assessment methods

Methods	Grade	Date	Platform	CLO'S
Mid Exam	30	Fixed by the Department	Classroom	K،S
Assign, Quizzes &Participation	20	During Semester	Classroom+Moodle	S،K
Final Exam	50	Fixed by the Department	Classroom	All CLOs

Eighth: Course Policies

- All course policies are applied on all teaching patterns (online, blended, and face-to-face Learning) as follows:
  a. Punctuality.
  b. Participation and interaction.
  c. Attendance and exams.
- Academic integrity: (cheating and plagiarism are prohibited).

Approved by:	Name	Date	Signature
Head of Department	Dr. AymanAmer	6/3/2023	
Faculty Dean	Prof. TaiseerAlghanim	6/3/2023