



7 Course Specification of Engineering Mechanics 1

| I. Course Identification and General Information: | | | | | |
|---|--|--------------------------------|-----|-----|--------------|
| 1 | Course Title: | <i>Engineering Mechanics 1</i> | | | |
| 2 | Course Code & Number: | BR007 | | | |
| 3 | Credit hours: | C.H | | | Credit Hours |
| | | Th. | Tu. | Pr. | Tr. |
| | | 2 | 2 | | |
| 4 | Study level/ semester at which this course is offered: | 1th Level/ 1st semester | | | |
| 5 | Pre –requisite (if any): | ----- | | | |
| 6 | Co –requisite (if any): | ----- | | | |
| 8 | Program (s) in which the course is offered: | Civil Engineering | | | |
| 9 | Language of teaching the course: | English+ Arabic | | | |
| 10 | Location of teaching the course: | Class room | | | |
| 11 | Prepared by: | Dr. Mohammad A. Algorafi | | | |
| 12 | Date of Approval | | | | |

| II. Course Description: |
|--|
| <p>Engineering Mechanics 1 is that branch of mechanics which deals with the equilibrium of particle under the action of forces at rest or constant velocity.</p> <p>This course provides fundamental concepts for most of civil engineering branches which are related to equilibrium. The knowledge and abilities taught in this course are an essential prerequisite for subsequent courses involving dynamics; fluid, theory of structure, strength of material. The course focuses on the physical/mathematical analysis of the forces of particles and rigid bodies such as Basic concepts of mechanics. Scalar and Vectors, Position, unit and force vectors, Two-dimensional force systems, Moment of a force about a point. Moment of a force about a line, Equivalent Systems, cable, fraction.</p> <p>The formulation and solution of mechanic's problems will help the students develop the ability of logical thinking and effective communication. A thorough comprehension of statics will provide one of the most useful and powerful tools for analysis in engineering. In each chapter, the complete theory and the method of analysis will be introduced in the beginning followed by solved examples and assignments.</p> |

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| III. Course Intended learning outcomes (CILOs) of the course | | Referenced PILOs |
|---|--|---------------------|
| a.1 | Define the fundamental knowledge of mechanics to solve for forces and moments on structure systems under rest. | A1 |
| a.2 | Define the basic differences between diverse engineering systems and Describe the principles of analyze techniques | A3 |
| b.1 | Distinguish the basic differences between diverse engineering systems, and select the suitable analysis in achieving the engineering purposes. | B1 |
| c.1 | Apply the fundamental knowledge of mechanics to solve for forces and moments on simple systems. | C2 |
| c.2 | Apply engineering mechanics techniques to solve the problems encountered in projects. | C3 |

| (A) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies: | | |
|---|---|---|
| Course Intended Learning Outcomes | Teaching strategies | Assessment Strategies |
| a1- Define the fundamental knowledge of mechanics to solve for forces and moments on structure systems under rest. | Lecture Multimedia Presentations Presentations Tutorial Reading | Problem set- Written exam- Written assignment |
| a2- Define the basic differences between diverse engineering systems and Describe the principles of analyze techniques | Lecture Multimedia Presentations Presentations Tutorial Reading | Problem set- Written exam- Written assignment |

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(B) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:

| Course Intended Learning Outcomes | Teaching strategies | Assessment Strategies |
|--|--|--|
| b1- Distinguish the basic differences between diverse engineering systems, and select the suitable analysis in achieving the engineering purposes. | Lecture Multimedia Presentations Presentations Tutorial Reading | Participation- Written Assignment-Project |

C Alignment Course Intended Learning Outcomes of Professional and Practical Skills to Teaching Strategies and Assessment Strategies:

| Course Intended Learning Outcomes | Teaching strategies | Assessment Strategies |
|---|--------------------------------------|--|
| c1- Apply the fundamental knowledge of mechanics to solve for forces and moments on simple systems. | Lecture Presentations Tutorial | Written Assignment- Written exam -Project |
| c2- Apply engineering mechanics techniques to solve the problems encountered in projects. | Lecture Presentations Tutorial | Written Assignment- Written exam -Project |

IV. Course Content:

A – Theoretical Aspect:

| Order | Units/Topics List | Learning Outcomes | Sub Topics List | Number of Weeks | contact hours |
|-------|-------------------|-------------------|--|-----------------|---------------|
| 1 | Introduction | a1, | Basic Concepts Newton's law System of Units Gravitation Dimensions | 1 | 2 |
| 2 | Force Vectors | a1, c1, c2 | Vector Operations Resolving of Forces Resultant of Forces | 2 | 4 |

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| | | | | | |
|--|--------------------------------|--------------------|---|-----------|-----------|
| 3 | Equilibrium of Particles | a1, a2, b1, c1, c2 | Free Body Diagram Concepts Solving Equilibrium Problems Spring and Pulley Systems Concepts | 2 | 4 |
| 4 | Truss | a1, a2, b1, c1, c2 | Determine the Forces in the Members of a Truss: Joint Method Section Method | 1 | 2 |
| 5 | Cable | a1, a2, b1, c1, c2 | Determine the Forces in the Members of a Cable by Joint Method | 1 | 2 |
| 6 | Force System Resultants | a1, a2, b1, c1, c2 | Moment Concepts Moment of Couples Resolution of Forces into a single force and couple acting at another point [Equivalent Systems] Distributed Loads Supports | 1 | 2 |
| 7 | Equilibrium of Rigid Bodies | a1, a2, b1, c1, c2 | Free Body Diagram Concepts Solving Equilibrium of beams and frame | 2 | 4 |
| 8 | Friction | a1, c1, c2 | Concepts of Dry Friction Analyze Equilibrium of Rigid Bodies Subjected to This Force Concepts of Rolling Resistance | 2 | 4 |
| 9 | Centroid & Moments of Inertia. | a1, a2, b1, c1, c2 | Centroid of a Body. Moments of Inertia. Composite Areas. | 2 | 4 |
| Number of Weeks /and Units Per Semester | | | | 14 | 28 |

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| B -Tutorial Aspect: | | | | |
|--|--------------------------------|-----------------|---------------|--------------------|
| Order | Tasks/ Experiments | Number of Weeks | contact hours | Learning Outcomes |
| 1 | Introduction | 1 | 2 | a1, |
| 2 | Force Vectors | 2 | 4 | a1, c1, c2 |
| 3 | Equilibrium of Particles | 2 | 4 | a1, a2, b1, c1, c2 |
| 4 | Truss | 1 | 2 | a1, a2, b1, c1, c2 |
| 5 | Cable | 1 | 2 | a1, a2, b1, c1, c2 |
| 6 | Force System Resultants | 1 | 2 | a1, a2, b1, c1, c2 |
| 7 | Equilibrium of Rigid Bodies | 2 | 4 | a1, a2, b1, c1, c2 |
| 8 | Friction | 2 | 4 | a1, c1, c2 |
| 9 | Centroid & Moments of Inertia. | 2 | 4 | a1, a2, b1, c1, c2 |
| Number of Weeks /and Units Per Semester | | 14 | 28 | |

| V. Teaching strategies of the course: |
|---|
| Lecture Multimedia Presentations Presentations Tutorial Reading Small group working Independent study |

| VI. Assignments: | | | | |
|-------------------------|--------------------------|------------------------|----------|------|
| No | Assignments | Aligned CILOs(symbols) | Week Due | Mark |
| 1 | Newton's law | a1, | 1 | 1 |
| 2 | Force Vectors | a1, c1, c2 | 2,3 | 1 |
| 3 | Equilibrium of Particles | a1, a2, b1, c1, c2 | 4,5 | 1.5 |
| 4 | Truss | a1, a2, b1, c1, c2 | 6 | 1 |
| 5 | Cable | a1, a2, b1, c1, c2 | 7 | 1 |

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| | | | | |
|---|--------------------------------|--------------------|------|---|
| 6 | Force System Resultants | a1, a2, b1, c1, c2 | 8 | 1 |
| 7 | Equilibrium of Rigid Bodies | a1, a2, b1, c1, c2 | 9,10 | 1 |
| 8 | Friction | a1, c1, c2 | 11 | 1 |
| 9 | Centroid & Moments of Inertia. | a1, a2, b1, c1, c2 | 12 | 1 |

VII. Schedule of Assessment Tasks for Students During the Semester:

| No. | Assessment Method | Week Due | Mark | Proportion of Final Assessment | Aligned Course Learning Outcomes |
|-----|--------------------|---------------------|------------|--------------------------------|----------------------------------|
| 1 | Written assignment | 1-to 12 | 10.5 | 7 | a1, a2, b1, c1, c2 |
| 2 | Quizzes. | Three time randomly | 4.5 | 3 | b1, c1, c2 |
| 3 | Mid-term exam. | 7th | 30 | 20 | a1, a2, b1, c1, c2 |
| 4 | Final-exam. | 16 | 90 | 70 | a1, a2, b1, c1, c2 |
| | Sum | | 150 | 100% | |

VIII. Learning Resources:

- Written in the following order: (Author - Year of publication – Title – Edition – Place of publication – Publisher).

1- Required Textbook(s) (maximum two).

1 - Hibbeler, R.C., "Engineering Mechanics: statics", 12th edition, and Prentice Hall

2- Essential References.

- J. L. Meriam, L. G. Kraige, 2011, Engineering Mechanics, statics, 7th Edition, John Wiley Publisher
- F.P.Beer and E.R. Russel, 1999, Vector Mechanics for Engineers Statics and Dynamic Edition, McGraw Hill

3- Electronic Materials and Web Sites etc.

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| IX. Course Policies: | |
|-----------------------------|---|
| 1 | Class Attendance: The students should have more than 75 % of attendance according to rules and regulations of the faculty. |
| 2 | Tardy: The students should respect the timing of attending the lectures. They should attend within 1 minutes from starting of the lecture. |
| 3 | Exam Attendance/Punctuality: The student should attend the exam on time. The punctuality should be implemented according to rules and regulations of the faculty for midterm exam and final exam. |
| 4 | Assignments & Projects: The assignment is given to the students after each chapter, the student has to submit all the assignments for checking on time. |
| 5 | Cheating: If any cheating occurred during the examination, the student is not allowed to continue and he/she has to face the examination committee for enquiries . |
| 6 | Plagiarism: The student will be terminated from the Faculty, if one student attends the exam on another behalf according to the policy, rules and regulations of the university. |
| 7 | Other policies: -All the teaching materials should be kept out the examination hall. -The mobile phone is not allowed. -There should be a respect between the student and his teacher. |

| | |
|-------------|--|
| Reviewed By | <u>Vice Dean for Academic Affairs and Post Graduate Studies</u> <u>Dr. Tarek A. Barakat</u> <u>Dr. Riyad A. Muharam</u> |
| | <u>Deputy Rector for Academic Affairs Dr. Ibrahim AlMutaa</u> <u>Dr. Ahmed mujahed</u> <u>Dr. Munaser Alsubri</u> |

Template for Course Plan (Syllabus) of

| | | | | |
|-------------|--|---|--|--|
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|-------------|--|---|--|--|

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Engineering Mechanics1

| I. - Information about Faculty Member Responsible for the Course: | | | | | | | |
|---|-----------------------|--------------|-----|------|-----|-----|-----|
| Name of Faculty Member | Dr. Mohammad Algorafi | Office Hours | | | | | |
| Location& Telephone No. | | SAT | SUN | MON | TUE | WED | THU |
| E-mail | | | | 8-10 | | | |

| II. Course Identification and General Information: | | | | | | |
|--|---|--------------------------------|-----|-----|-----|------------------|
| 1 | Course Title: | <i>Engineering Mechanics 1</i> | | | | |
| 2- | Course Number & Code: | BR007 | | | | |
| 3- | Credit hours: | C.H | | | | Credit Hours Th. |
| | | Th. | Tu. | Th. | Tu. | |
| | | 2 | 2 | | | 3 |
| 4- | Study level/year at which this course is offered: | 1th Level/ 1st semester | | | | |
| 5- | Pre –requisite (if any): | | | | | |
| 6- | Co –requisite (if any): | ----- | | | | |
| 7- | Program (s) in which the course is offered | Civil Engineering | | | | |
| 8- | Language of teaching the course: | English+ Arabic | | | | |
| 9- | System of Study: | Regular | | | | |
| 10- | Mode of delivery: | Lecture | | | | |
| 11- | Location of teaching the course: | Class | | | | |

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III. Course Description:

Engineering Mechanics 1 is that branch of mechanics which deals with the equilibrium of particle under the action of forces at rest or constant velocity.

This course provides fundamental concepts for most of civil engineering branches which **are** related to equilibrium. The knowledge and abilities taught in this course are an essential prerequisite for subsequent courses involving dynamics; fluid, theory of structure, strength of material. The course focuses on the physical/mathematical analysis of the forces of particles and rigid bodies such as Basic concepts of mechanics, Scalar and Vectors, Position, unit and force vectors, Two dimensional force systems, Moment of a force about a point, Moment of a force about a line, Equivalent Systems, cable, **and** fraction.

The formulation and solution of mechanic's problems will help the students **develop** the ability of logical thinking and effective communication. A thorough comprehension of statics will provide one of the most useful and powerful tools for analysis in engineering. In each chapter, the complete theory and the method of analysis will be introduced in the beginning followed by solved examples and assignments.

IV. Intended learning outcomes (ILOs) of the course:

- Brief summary of the knowledge or skill the course is intended to develop:

a.1 Define the fundamental knowledge of mechanics to solve for forces and moments on structure systems under rest. (A1)

a.2 Define the basic differences between diverse engineering systems and Describe the principles of analyze techniques (A3)

b.1 Distinguish the basic differences between diverse engineering systems, and select the suitable analysis in achieving the engineering purposes. (B1)

c.1 Apply the fundamental knowledge of mechanics to solve for forces and moments on simple systems. (C2)

c.2 Apply engineering mechanics techniques to solve the problems encountered in projects. (C3)

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| V. Course Content: | | | | |
|---|-----------------------------|---|----------|---------------|
| Distribution of Semester Weekly Plan of Course Topics/Items and Activities. | | | | |
| A – Theoretical Aspect: | | | | |
| Order | Topics List | Sub Topics List | Week Due | Contact Hours |
| 1 | Introduction | Basic Concepts Newton's law System of Units Gravitation Dimensions | 1 | 2 |
| 2 | Force Vectors | Vector Operations Resolving of Forces Resultant of Forces | 2,3 | 4 |
| 3 | Equilibrium of Particles | Free Body Diagram Concepts Solving Equilibrium Problems Spring and Pulley Systems Concepts | 4,5 | 4 |
| 4 | Truss | Determine the Forces in the Members of a Truss: Joint Method Section Method | 6 | 2 |
| 5 | Cable | Determine the Forces in the Members of a Cable by Joint Method | 7 | 2 |
| 6 | Midterm Exam | | 8 | 2 |
| 7 | Force System Resultants | Moment Concepts Moment of Couples Resolution of Forces into a single force and couple acting at another point [Equivalent Systems] Distributed Loads Supports | 9 | 2 |
| 8 | Equilibrium of Rigid Bodies | Free Body Diagram Concepts Solving Equilibrium of beams and frame | 10,11,12 | 6 |

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| | | | | |
|---|--------------------------------------|--|-------|----|
| 9 | Friction | Concepts of Dry Friction Analyze Equilibrium of Rigid Bodies Subjected to This Force Concepts of Rolling Resistance | 13,14 | 4 |
| 10 | Centroid & Moments of Inertia. | Centroid of a Body. Moments of Inertia. Composite Areas. | 15 | 2 |
| 11 | Final Exam | | 16 | 2 |
| Number of Weeks /and Units Per Semester | | | 16 | 32 |

B – Tutorial Aspect:

| Order | Topics List | Week Due | Contact Hours |
|--|--------------------------------|-----------|---------------|
| 1 | Introduction | 1 | 2 |
| 2 | Force Vectors | 2,3 | 4 |
| 3 | Equilibrium of Particles | 4,5 | 4 |
| 4 | Truss | 6 | 2 |
| 5 | Cable | 7 | 2 |
| 6 | Force System Resultants | 8 | 2 |
| 7 | Equilibrium of Rigid Bodies | 9,10,11 | 6 |
| 8 | Friction | 12,13 | 4 |
| 9 | Centroid & Moments of Inertia. | 14 | 2 |
| Number of Weeks /and Units Per Semester | | 14 | 28 |

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VI. Teaching strategies of the course:

Lecture
Multimedia Presentations
Presentations
Tutorial
Reading
Small group working
Independent study

VII. Assignments:

| No | Assignments | Aligned CILOs(symbols) | Week Due | Mark |
|----|--------------------------------|---------------------------|----------|------|
| 1 | Newton's law | a1, | 1 | 1 |
| 2 | Force Vectors | a1, c1, c2 | 2,3 | 1 |
| 3 | Equilibrium of Particles | a1, a2, b1, c1, c2 | 4,5 | 1.5 |
| 4 | Truss | a1, a2, b1, c1, c2 | 6 | 1 |
| 5 | Cable | a1, a2, b1, c1, c2 | 7 | 1 |
| 6 | Force System Resultants | a1, a2, b1, c1, c2 | 8 | 1 |
| 7 | Equilibrium of Rigid Bodies | a1, a2, b1, c1, c2 | 9,10,11 | 1 |
| 8 | Friction | a1, c1, c2 | 12 | 1 |
| 9 | Centroid & Moments of Inertia. | a1, a2, b1, c1, c2 | 12 | 1 |

VIII. Schedule of Assessment Tasks for Students During the Semester:

| Assessment | Type of Assessment Tasks | Week Due | Mark | Proportion of Final Assessment |
|------------|-----------------------------|------------------------|------|-----------------------------------|
| 1 | Written assignment | 1-to 12 | 10.5 | 7 |
| 2 | Quizzes. | Three time randomly | 4.5 | 3 |
| 3 | Mid-term exam. | 7th | 30 | 20 |
| 4 | Final-exam. | 13 | 90 | 70 |

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IX. Learning Resources:

- Written in the following order: (Author – Year of publication – Title – Edition – Place of publication – Publisher).

1- Required Textbook(s) (maximum two).

Hibbeler, R.C., "Engineering Mechanics: statics", 12th edition, and Prentice Hall

2- Essential References.

1. -J. L. Meriam, L. G. Kraige, 2011, Engineering Mechanics, Statics, 7th Edition, John Wiley Publisher
- 2 -F.P.Beer and E.R. Russel, 1999, Vector Mechanics for Engineers Statics and Dynamics, 6th Edition, McGraw Hill

3- Electronic Materials and Web Sites *etc.*

- 1- Staad pro manual

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| X. Course Policies: | |
|--|---|
| Unless otherwise stated, the normal course administration policies and rules of the Faculty of Engineering apply. For the policy, see: ----- | |
| 1 | Class Attendance: The students should have more than 75 % of attendance according to rules and regulations of the faculty. |
| 2 | Tardy: The students should respect the timing of attending the lectures. They should attend within 1 minutes from starting of the lecture. |
| 3 | Exam Attendance/Punctuality: The student should attend the exam on time. The punctuality should be implemented according to rules and regulations of the faculty for midterm exam and final exam. |
| 4 | Assignments & Projects: The assignment is given to the students after each chapter, the student has to submit all the assignments for checking on time. |
| 5 | Cheating: If any cheating occurred during the examination, the student is not allowed to continue and he/she has to face the examination committee for enquiries . |
| 6 | Plagiarism: The student will be terminated from the Faculty, if one student attends the exam on another behalf according to the policy, rules and regulations of the university. |
| 7 | Other policies: -All the teaching materials should be kept out the examination hall. -The mobile phone is not allowed. -There should be a respect between the student and his teacher. |

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