

بسم الله الرحمن الرحيم

Republic of Iraq
The Ministry Of Higher Education
& Scientific Research



University: Diyala
College: engineering
Department: Mechanic
Stage: 2nd
Lecturer name: Samir Gh. YAHYA
Qualification: BSc, MSc and PhD
Place of work: University of Diyala

Flow up of implementation celli pass play

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|--------------------|---|------------|---------|---------|------------|
| Course Instructor | Samir Ghazi YAHYA | | | | |
| E-mail | SamirYahya@engineering.uodiyala.edu.iq | | | | |
| Title | Dynamics (engineering mechanics) | | | | |
| Course Coordinator | One Course (2 nd Semester) | | | | |
| Course Objective | To teach the students the fundamental of Dynamics and its applications in our daily life. The primary purpose of the study of engineering mechanics is to develop the capacity. | | | | |
| Course Description | Engineering mechanics is both a foundation and a framework for most of the branches of engineering. Many of the topics in such areas as civil, mechanical, aerospace, and agricultural engineering, and of course engineering mechanics itself, are based upon the subjects of statics and dynamics. Even in a discipline such as electrical engineering, practitioners, in the course of considering the electrical components of a robotic device or a manufacturing process, may find themselves first having to deal with the mechanics involved. | | | | |
| Textbook | | | | | |
| Course Assessments | Term Tests | Laboratory | Quizzes | Project | Final Exam |
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| General Notes | | | | | |

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Course Weekly Outline

| Week | Date | Topes Covered | Lab. Experiment Assignments | Notes |
|------|------|---------------|-----------------------------|-------|
| 1 | | | | |
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| Half – year break | | | | |
|-------------------|------------|---|--|--|
| 17 | 19/02/2017 | Introduction to Dynamics – Newton's laws | | |
| 18 | 02/2017 | Rectilinear motion: displacement, velocity and acceleration | | |
| 19 | 02/2017 | Rectilinear motion: graphical method | | |
| 21 | 03/2017 | Solving problems (tutorials) | | |
| 21 | 03/2017 | Plane curvilinear motion | | |
| 22 | 03/2017 | Rectangular coordinates | | |
| 23 | 03/2017 | Solving problems (tutorials) | | |
| 24 | 03/2017 | Projectile motion and Solving problems (tutorials) | | |
| 25 | 04/2017 | Polar coordinates: Circular motion | | |
| 26 | 04/2017 | Solving problems (tutorials) | | |
| 27 | 04/2017 | Space curvilinear motion and (tutorials) | | |
| 28 | 04/2017 | Relative motion (translating axes) and (tutorials) | | |
| 29 | 05/2017 | Constrained motion of connected particles and (tutorials) | | |
| 31 | 05/2017 | Work of rigid body, impulse and momentum of rigid body | | |

INSTRUCTOR Signature:

Dean Signature: