

#### Profile information current as at 29/07/2024 03:28 pm

All details in this unit profile for ENEM12010 have been officially approved by CQUniversity and represent a learning partnership between the University and you (our student). The information will not be changed unless absolutely necessary and any change will be clearly indicated by an approved correction included in the profile.

# **General Information**

# Overview

In this unit, you will apply Newtonian Physics to solve physical situations in engineering. This unit follows on from Year 1 Engineering Mechanics unit (where you have assessed physical situations in static equilibrium) and considers systems that are not in equilibrium i.e., respond to unbalanced forces that induce an acceleration in the system. You will study pure kinematics (a mathematical description of motion only) of particles and rigid bodies and kinetics, to determine motion in problems using Motion & Energy equations in 2D planar mechanisms,) particles and rigid bodies. The unit concludes with an introduction to mechanical vibrations.

## Details

Career Level: Undergraduate Unit Level: Level 2 Credit Points: 6 Student Contribution Band: 8 Fraction of Full-Time Student Load: 0.125

## Pre-requisites or Co-requisites

Prerequisites: ENEG11006 Engineering Statics AND MATH11219 Applied Calculus

Important note: Students enrolled in a subsequent unit who failed their pre-requisite unit, should drop the subsequent unit before the census date or within 10 working days of Fail grade notification. Students who do not drop the unit in this timeframe cannot later drop the unit without academic and financial liability. See details in the <u>Assessment Policy and</u> <u>Procedure (Higher Education Coursework)</u>.

# Offerings For Term 1 - 2024

- Bundaberg
- Cairns
- Gladstone
- Mackay
- Online
- Rockhampton

# **Attendance Requirements**

All on-campus students are expected to attend scheduled classes – in some units, these classes are identified as a mandatory (pass/fail) component and attendance is compulsory. International students, on a student visa, must maintain a full time study load and meet both attendance and academic progress requirements in each study period (satisfactory attendance for International students is defined as maintaining at least an 80% attendance record).

## Website

This unit has a website, within the Moodle system, which is available two weeks before the start of term. It is important that you visit your Moodle site throughout the term. Please visit Moodle for more information.

# **Class and Assessment Overview**

## **Recommended Student Time Commitment**

Each 6-credit Undergraduate unit at CQUniversity requires an overall time commitment of an average of 12.5 hours of study per week, making a total of 150 hours for the unit.

# **Class Timetable**

**Regional Campuses** Bundaberg, Cairns, Emerald, Gladstone, Mackay, Rockhampton, Townsville

Metropolitan Campuses Adelaide, Brisbane, Melbourne, Perth, Sydney

### Assessment Overview

Online Quiz(zes)
Weighting: 10%
Written Assessment
Weighting: 20%
Written Assessment
Weighting: 20%
Examination
Weighting: 50%

## Assessment Grading

This is a graded unit: your overall grade will be calculated from the marks or grades for each assessment task, based on the relative weightings shown in the table above. You must obtain an overall mark for the unit of at least 50%, or an overall grade of 'pass' in order to pass the unit. If any 'pass/fail' tasks are shown in the table above they must also be completed successfully ('pass' grade). You must also meet any minimum mark requirements specified for a particular assessment task, as detailed in the 'assessment task' section (note that in some instances, the minimum mark for a task may be greater than 50%). Consult the <u>University's Grades and Results Policy</u> for more details of interim results and final grades.

# **CQUniversity Policies**

### All University policies are available on the <u>CQUniversity Policy site</u>.

You may wish to view these policies:

- Grades and Results Policy
- Assessment Policy and Procedure (Higher Education Coursework)
- Review of Grade Procedure
- Student Academic Integrity Policy and Procedure
- Monitoring Academic Progress (MAP) Policy and Procedure Domestic Students
- Monitoring Academic Progress (MAP) Policy and Procedure International Students
- Student Refund and Credit Balance Policy and Procedure
- Student Feedback Compliments and Complaints Policy and Procedure
- Information and Communications Technology Acceptable Use Policy and Procedure

This list is not an exhaustive list of all University policies. The full list of University policies are available on the <u>CQUniversity Policy site</u>.

# Previous Student Feedback

## Feedback, Recommendations and Responses

Every unit is reviewed for enhancement each year. At the most recent review, the following staff and student feedback items were identified and recommendations were made.

## Feedback from Unit Evaluation

### Feedback

Unit lecturer was helpful and informative and the unit was set out in a user-friendly manner.

### Recommendation

This practice should be continued.

### Feedback from Unit Evaluation

#### Feedback

The use of MCQs during the lecture was very good as it helped to learn some basic information and it is a good way to allow for interaction with students and the lecturer.

#### Recommendation

This practice should be continued.

### Feedback from Class discussion

#### Feedback

Use of equipment/devices to explain the concepts was helpful in the learning process.

#### Recommendation

This practice should be continued.

# Unit Learning Outcomes

#### On successful completion of this unit, you will be able to:

- 1. Apply basic kinematics concepts such as displacement, velocity, and acceleration to predict the motion of bodies
- 2. Apply basic kinetics concepts such as force, momentum, work, and energy to predict the motion of bodies
- 3. Apply Newton's laws of motion and the work-energy principle to particles dynamic systems, impulse-momentum principle, and coefficient of restitution
- 4. Apply principles of planar kinematics and kinetics of a rigid body
- 5. Derive the equations of motion for single degree freedom systems due to mechanical vibrations
- 6. Work effectively as an individual and communicate effectively with colleagues and peers.

The Learning Outcomes for this unit are linked with the Engineers Australia Stage 1 Competency Standards for Professional Engineers in the areas of 1. Knowledge and Skill Base, 2. Engineering Application Ability and 3. Professional and Personal Attributes at the following levels:

Introductory

2.3 Application of systematic engineering synthesis and design processes. (LO: 1N)

Intermediate

1.1 Comprehensive, theory-based understanding of the underpinning natural and physical sciences and the engineering fundamentals applicable to the engineering discipline. (LO: 11 21 31 41 51)

1.2 Conceptual understanding of the mathematics, numerical analysis, statistics, and computer and information sciences which underpin the engineering discipline. (LO: 11 2I 3I 4I 5I)

1.3 In-depth understanding of specialist bodies of knowledge within the engineering discipline. (LO: 11 2I 3I 4I 5I)

1.4 Discernment of knowledge development and research directions within the engineering discipline. (LO: 11 21 31 41 51)

1.5 Knowledge of engineering design practice and contextual factors impacting the engineering discipline. (LO: 11 21 31 41 51)

1.6 Understanding of the scope, principles, norms, accountabilities and bounds of sustainable engineering practice in the specific discipline. (LO: 11 2I 3I 4I 5I)

2.1 Application of established engineering methods to complex engineering problem solving. (LO: 11 2I 3I 4I)

2.2 Fluent application of engineering techniques, tools and resources. (LO: 11 2I 3I 4I)

2.4 Application of systematic approaches to the conduct and management of engineering projects. (LO: 1I)

3.2 Effective oral and written communication in professional and lay domains. (LO: 6N 7I)

Note: LO refers to the Learning Outcome number(s) which link to the competency and the levels: N - Introductory, I - Intermediate and A - Advanced.

Refer to the Engineering Undergraduate Course Moodle site for further information on the Engineers Australia's Stage 1 Competency Standard for Professional Engineers and course level mapping information <u>https://moodle.cqu.edu.au/course/view.php?id=1511</u>

# Alignment of Learning Outcomes, Assessment and Graduate Attributes

N/A Level

Introductory Intermediate Level

Graduate Graduate

Professional Level

Advanced Level

# Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes					
	1	2	3	4	5	6
1 - Online Quiz(zes) - 10%	•	•	•	•	•	•
2 - Written Assessment - 20%	•	•	•			•
3 - Written Assessment - 20%				•	•	•
4 - Examination - 50%	•	٠	٠	•	•	

# Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Lea	rning	g Out	come	S	
	1	2	3	4	5	6
1 - Communication	•	•	•	•		•
2 - Problem Solving	•	•	•	•	•	
3 - Critical Thinking	•	•	•	•	•	•
4 - Information Literacy	•	•	•	•		•
5 - Team Work						
6 - Information Technology Competence	•	•	•	•	•	
7 - Cross Cultural Competence						
8 - Ethical practice						
9 - Social Innovation						
10 - Aboriginal and Torres Strait Islander Cultures						

# Textbooks and Resources

## Textbooks

ENEM12010

### Prescribed

#### **ENGINEERING MECHANICS - DYNAMICS (SI EDITION)**

Edition: 14 (2017) Authors: Hibbeler, RC pearson SYDNEY , NSW , AUSTRALIA ISBN: 9781488689871 Binding: Paperback

### View textbooks at the CQUniversity Bookshop

## **IT Resources**

### You will need access to the following IT resources:

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)
- Interactive Physics software
- MATLAB and Simulink Suite Software

# **Referencing Style**

All submissions for this unit must use the referencing style: <u>Harvard (author-date)</u> For further information, see the Assessment Tasks.

# **Teaching Contacts**

Ramadas Narayanan Unit Coordinator r.narayanan@cqu.edu.au

# Schedule

Week 1 - 04 Mar 2024		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
Unit Information, Basic concepts, Vectors, Particle, Rigid Body, Rectilinear Kinematics	Lecture Notes,Chapter 12, Sections 12.1- 12.3	
Week 2 - 11 Mar 2024		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
Curvilinear Motion, Relative Motion	Chapter 12, Sections 12.4- 12.8,12-10	Week 2 Quiz
Week 3 - 18 Mar 2024		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
Absolute Dependent Motion Kinetics of a Particle	Chapter 12, Section 12.10 Chapter 13, Sections 13.1 - 13.6	Week 3 Quiz
Week 4 - 25 Mar 2024		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>

Work and EnergyChapter 14, Sections 14.1-14.6Week 4 QuizWeek 5 - 01 Apr 2024Chapter 0Events and Submissions/Topic Week 5 QuizModule/TopicChapter 15, Sections 15.1 - 15.7Assignment 1 Due: Week 5 Friday (5 Apr 2024) 11:45 pm AESTConservation of momentum, impactChapter 15, Sections 15.1 - 15.7Assignment 1 Due: Week 5 Friday (5 Apr 2024) 11:45 pm AESTModule/TopicChapterEvents and Submissions/TopicVacationChapterEvents and Submissions/TopicVeek 6 - 15 Apr 2024ChapterEvents and Submissions/TopicVacationChapterEvents and Submissions/TopicVeek 6 - 15 Apr 2024Chapter 16, Sections 16.1 - 16.5Events and Submissions/TopicPlanar Kinematics of a rigid body- Rotation analysis, Relative motion analysis, Relative motion analysisChapter 16, Sections 16.1 - 16.5Events and Submissions/TopicVeek 7 - 22 Apr 2024Chapter 16, Sections 16.6 - 16.7Events and Submissions/TopicPlanar Kinematics of a rigid body - Instantaneous Centre methodChapter 16, Sections 16.6 - 16.7Week 7 QuizVeek 8 - 29 Apr 2024Chapter 16, Sections 16.6 - 16.7Week 7 Quiz
Module/TopicChapterEvents and Submissions/TopicImpulse & momentum - Conservation of momentum, impactChapter 15, Sections 15.1 - 10Week 5 QuizChapter 15, Sections 15.1 - 10Sisignment 1 Due: Week 5 Friday (S Apr 2024) 11:45 pm AESTModule/TopicChapterEvents and Submissions/TopicVacationChapterEvents and Submissions/TopicVacationChapterEvents and Submissions/TopicVacationChapter 16Events and Submissions/TopicVacationChapter 16, Sections 16.1 - 10Week 6 QuizPanar Kinematics of a rigid body- Rotation analysis, Relative motion Analysis, Relative motion analysisChapter 16, Sections 16.1 - 10Week 7 QuizPanar Kinematics of a rigid bodyle/TopicChapter 16, Sections 16.1 - 10Week 7 QuizPanar Kinematics of a rigid bodyle/TopicChapter 16, Sections 16.6 - 10Week 7 QuizPanar Kinematics of a rigid bodyle/TopicChapter 16, Sections 16.6 - 10Week 7 QuizPanar Kinematics of a rigid bodyle/TopicChapter 16, Sections 16.6 - 10Week 7 Quiz
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- Instantaneous Centre method Chapter 16, Sections 16.6 - 16.7 Week 7 Quiz Veek 8 - 29 Apr 2024
Module/Topic Chapter Events and Submissions/Topic
Planar Kinematics of a rigid body - Force and Acceleration, Translation, Rotation and General Plane Motion
Veek 9 - 06 May 2024
Module/Topic Chapter Events and Submissions/Topic
Planar Kinetics of a Rigid Body: Work & Energy, Impulse & Momentum Komentum
Veek 10 - 13 May 2024
Module/Topic Chapter Events and Submissions/Topic
Vibrations: Free and Forced Chapter 22 Section 22.1- 22.3 Week 10 Quiz
Veek 11 - 20 May 2024
Module/Topic Chapter Events and Submissions/Topic Week 11 Quiz
Damped Vibration, Energy Methods, Electrical AnalogyChapter 22 Section 22.4- 22.6Assignment 2 Due: Week 11 Monday (20 May 2024) 11:45 pm AEST
Veek 12 - 27 May 2024
Module/Topic Chapter Events and Submissions/Topic
Revision All Chapters
eview/Exam Week - 03 Jun 2024
Module/Topic Chapter Events and Submissions/Topic
Review /Exam Period
xam Week - 10 Jun 2024

# Assessment Tasks

## 1 Online Quizzes

Assessment Type Online Quiz(zes)

### **Task Description**

These weekly quizzes assess contents from each week. There will be 10 quizzes starting from week 2 extending up to week 11 and all quizzes together will have 10% weighting of the course. The assessment task can be accessed from the course Moodle site on a weekly basis. Each quiz will be open for a week and students need to attempt within the open period. Weekly due dates will be given in the Moodle.

Number of Quizzes

10

Frequency of Quizzes Weekly

Assessment Due Date

Weekly due dates will be given in the Moodle

### **Return Date to Students**

Students will be getting feedback immediately after the submission of the quizzes.

Weighting 10%

Minimum mark or grade 50%

#### Assessment Criteria

The correct answer will get full marks and the incorrect answer will be given zero marks.

#### **Referencing Style**

• Harvard (author-date)

## Submission

Online

#### **Submission Instructions**

Each quiz needs to be attempted and submitted withing the stipulated time.

### Learning Outcomes Assessed

- Apply basic kinematics concepts such as displacement, velocity, and acceleration to predict the motion of bodies
- Apply basic kinetics concepts such as force, momentum, work, and energy to predict the motion of bodies
- Apply Newton's laws of motion and the work-energy principle to particles dynamic systems, impulse-momentum principle, and coefficient of restitution
- Apply principles of planar kinematics and kinetics of a rigid body
- Derive the equations of motion for single degree freedom systems due to mechanical vibrations
- Work effectively as an individual and communicate effectively with colleagues and peers.

# 2 Assignment 1

Assessment Type

Written Assessment

### **Task Description**

This assignment assesses contents from Week 1 to Week 4. The assessment task will be available in the course Moodle site three weeks prior to its due date. You must provide detailed solutions to the

problems given in the assignment in order to demonstrate your knowledge and understanding of the concepts and processes incorporating any assumptions made, relevant sketches, clear step by step solution and conclusion/judgements on the answer.

### Assessment Due Date

Week 5 Friday (5 Apr 2024) 11:45 pm AEST

#### **Return Date to Students** Week 6 Friday (19 Apr 2024) Two weeks after the submission

Weighting

20%

Minimum mark or grade 50%

### **Assessment Criteria**

The submission will be graded based on the presentation, the method of solution, appropriate explanation and completeness of the solution. A complete solution should include any assumptions made, relevant sketches, clear step by step solution and conclusion/judgement on the answer.

### **Referencing Style**

• Harvard (author-date)

### Submission

Online

#### Learning Outcomes Assessed

- Apply basic kinematics concepts such as displacement, velocity, and acceleration to predict the motion of bodies
- Apply basic kinetics concepts such as force, momentum, work, and energy to predict the motion of bodies
- Apply Newton's laws of motion and the work-energy principle to particles dynamic systems, impulse-momentum principle, and coefficient of restitution
- Work effectively as an individual and communicate effectively with colleagues and peers.

## 3 Assignment 2

### Assessment Type

Written Assessment

### **Task Description**

This assignment assesses contents from Week 5 to Week 9. The assessment task will be available in the unit Moodle site three weeks prior to its due date. You must provide detailed solutions to the problems given in the assignment in order to demonstrate your knowledge and understanding of the concepts and processes incorporating any assumptions made, relevant sketches, clear step by step solution and conclusion/judgement on the answer

### Assessment Due Date

Week 11 Monday (20 May 2024) 11:45 pm AEST

#### **Return Date to Students**

Review/Exam Week Monday (3 June 2024) Two weeks after the submission

Weighting 20%

Minimum mark or grade 50

### **Assessment Criteria**

It will be graded based on the presentation, the method of solution, the appropriate explanation and the completeness of the solution. A complete solution should include any assumptions made, relevant sketches, a clear step-by-step solution and a conclusion/judgement on the answer.

### **Referencing Style**

• Harvard (author-date)

#### Submission

Online

### Learning Outcomes Assessed

- Apply principles of planar kinematics and kinetics of a rigid body
- Derive the equations of motion for single degree freedom systems due to mechanical vibrations
- Work effectively as an individual and communicate effectively with colleagues and peers.

## Examination

### Outline

Complete an invigilated examination.

### Date

During the examination period at a CQUniversity examination centre.

Weighting

50%

### Length

180 minutes

Minimum mark or grade 50%

Exam Conditions Restricted.

### Materials

Dictionary - non-electronic, concise, direct translation only (dictionary must not contain any notes or comments). Calculator - all non-communicable calculators, including scientific, programmable and graphics calculators are authorised

# Academic Integrity Statement

As a CQUniversity student you are expected to act honestly in all aspects of your academic work.

Any assessable work undertaken or submitted for review or assessment must be your own work. Assessable work is any type of work you do to meet the assessment requirements in the unit, including draft work submitted for review and feedback and final work to be assessed.

When you use the ideas, words or data of others in your assessment, you must thoroughly and clearly acknowledge the source of this information by using the correct referencing style for your unit. Using others' work without proper acknowledgement may be considered a form of intellectual dishonesty.

Participating honestly, respectfully, responsibly, and fairly in your university study ensures the CQUniversity qualification you earn will be valued as a true indication of your individual academic achievement and will continue to receive the respect and recognition it deserves.

As a student, you are responsible for reading and following CQUniversity's policies, including the **Student Academic Integrity Policy and Procedure**. This policy sets out CQUniversity's expectations of you to act with integrity, examples of academic integrity breaches to avoid, the processes used to address alleged breaches of academic integrity, and potential penalties.

#### What is a breach of academic integrity?

A breach of academic integrity includes but is not limited to plagiarism, self-plagiarism, collusion, cheating, contract cheating, and academic misconduct. The Student Academic Integrity Policy and Procedure defines what these terms mean and gives examples.

#### Why is academic integrity important?

A breach of academic integrity may result in one or more penalties, including suspension or even expulsion from the University. It can also have negative implications for student visas and future enrolment at CQUniversity or elsewhere. Students who engage in contract cheating also risk being blackmailed by contract cheating services.

#### Where can I get assistance?

For academic advice and guidance, the <u>Academic Learning Centre (ALC)</u> can support you in becoming confident in completing assessments with integrity and of high standard.

#### What can you do to act with integrity?





Seek Help If you are not sure about how to cite or reference in essays, reports etc, then seek help from your lecturer, the library or the Academic Learning Centre (ALC)



Produce Original Work Originality comes from your ability to read widely, think critically, and apply your gained knowledge to address a question or problem