

COURSE OVERVIEW

INTRODUCTION TO MECHANICAL ENGINEERING

Here is a quick overview of your course plus useful information about navigating the online platform.

Your semester starts once you have completed your onboarding.



***Tomorrow belongs to people
who prepare for it today.*** - AFRICAN PROVERB



PROGRAMME OVERVIEW

This course introduces the core ideas of mechanical engineering. You will learn about forces, materials, energy and fluids, and how simple parts are drawn and described. The course also covers maths basics, sketching and CAD, statics, materials and manufacturing, thermodynamics, mechanics of materials, and mechatronics. Ethics, safety and communication are included throughout to show how engineering practice works in South Africa.

WHAT YOU WILL LEARN

Your course contains 8 substantive modules/units. By the end of the course, you will be able to:

- Explain ethical, regulatory and social responsibilities in engineering.
- Apply basic maths and computer tools to solve simple problems.
- Create and read engineering sketches and digital drawings.
- Analyse forces in simple structures and recognise common materials and processes.
- Describe simple energy, fluid and mechatronic systems.

ASSESSMENT INFO

Students must complete and submit various formative and summative assessments for each module. Refer to the Programme Guide on the Virtual Campus for information on assessments in this programme. The formative assessments contributes 40% to the final course mark, while the summative assessment contributes 60%. So the final pass mark for your course is 50%.

EXPERTISE YOU CAN TRUST

- | 19 YEARS OF INNOVATIVE LEARNING
- | OVER 50,000 SUCCESSFUL STUDENTS
- | ENDORSED BY SAIOSH AND OPSA
- | REGISTERED AND ACCREDITED WITH SAQA AND DHET
- | CURRICULA DEVELOPED BY LEADING ACADEMICS AND INDUSTRY EXPERTS
- | QUALITY ASSURED QUALIFICATIONS

- 3 months
- ± 8h Study time per week per module
- Fully online | Mobile friendly
- Earn an industry-ready certificate

HOW TO STUDY ONLINE

You will study entirely online, using our iQ Virtual Campus as follows:

- Log into your profile.
- Complete the Onboarding (including New Rules).

Your course starts once you have completed your Student Onboarding on the Virtual Campus, where you will gain access to the Programme rules and your Programme Guide.

Content for each module will be made available based on a structured learning path to guide you through the learning process over a fixed period. For your convenience, the study guide units for each module are available separately in the respective unit sections on the learning platform (in digital format).

You can download this for offline use.

ACADEMIC SUPPORT

We understand that studying online can sometimes be isolating and challenging, so we have worked hard to ensure your course is interactive and you are supported to ensure academic success. If you need to contact your course coordinator or require admin or account related support, complete a form for assistance, [click here](#).

