

HNC Mechanical Engineering

This course has been designed to help students in Cornwall and the south-west develop their knowledge and skills in mechanical engineering.

Why choose this course?

The programme will provide them with an understanding of theory and a range of skills to enable them to gain employment across a range of practice. The programme emphasises a deeper professional practice and gives the opportunity for producing an appropriate portfolio that demonstrates a growing professional expertise.

What will I learn?

The Level 4 Higher National Certificate in Engineering offers students a broad introduction to the subject area via a mandatory core of learning, while allowing for the acquisition of some sector-specific skills and experience through the specialist units in each pathway, with the opportunity to pursue a particular interest through the appropriate selection of optional units. This effectively builds underpinning core skills while preparing the student for more intense subject specialisation at Level 5. Students will gain a wide range of sector knowledge tied to practical skills gained in research, self-study, directed study and workplace activities.

MODULES

Year 1:

Computer Aided Design (CAD) for Engineering
Engineering Maths
Engineering Science
Managing a Professional Engineering Project (Pearson-set)

Year 2:

Mechanical Principles
Fundamentals of Thermodynamics and Heat Engines
Mechanical Workshop Practices
Engineering Design

Where will it take me?

Employability

Graduates successfully completing the Higher National Certificate will be able to demonstrate a sound knowledge of the basic concepts of engineering. They will be able to communicate accurately and appropriately and they will have the qualities of personal responsibility needed for employment. They will have developed a range of transferable skills to ensure effective team working, independent working with growing fault finding and problem-solving strategies, and organisational awareness. They will be adaptable and flexible in their approach to work, showing resilience under pressure and the ability to meet challenging targets within a reasonable, pre-set, timeframe. They will also demonstrate regard for the ethical responsibilities of the engineer, for cost and for the importance of protecting and sustaining the environment.

Future Pathways

HND Mechanical Engineering at Truro and Penwith College
Technician related roles
Maintenance related roles

What will I need?

GCSE Level: Normally English and Maths at Grade C or above.

Together with one of the following:

A minimum of 24 tariff points at A Level or equivalent Level 3 qualification

Access to Higher Education: Considered on an individual basis

National and Advanced Diplomas in a relevant subject

Applications from mature students without academic credentials will be considered on an individual basis but most prove they are capable of Higher Education study

Level 3 Qualifications achieved in the workplace will be taken into consideration

Additional Information

Awarding body

Pearson

Duration

Two years full time, part time route available.

How to Apply

UCAS Institution: Truro and Penwith College

UCAS Institution Code: T85

UCAS Course Code: H010