Engineering

HNC in Mechanical Engineering

Campus: University Centre Rotherham
Code: U06HE02
Type: Part Time

These courses are designed to provide you with a thorough understanding of engineering technologies used by businesses nationally and globally.

By studying the theory behind these technologies, you will develop the knowledge of how mechanical engineering systems feature in everyday life.

These courses also provide advanced technical knowledge through mechanical engineering principles, concepts and theory.

You will study higher-level technical vocational mechanical engineering skills to prepare you for a range of related occupations. The HNC course is offered on a part-time basis over 3 semesters (18 months) and can be topped up to an HND qualification with further study.

Why Study With Us?

We continually invest in modern, state-of-the-art equipment including new mechatronics and Programmable Logic Controller (PLC) facilities.

With industry-experienced tutors, the BTEC HNC and HND in Mechanical Engineering are designed to equip you with the skill set desired by employers within the mechanical engineering industry and provide you with new opportunities for career development.

Modules Covered

Mechanical

- Unit 4001 Engineering Design
- Unit 4002 Engineering Maths
- Unit 4004 Managing a Professional Engineering Project
- Unit 4008 Mechanical Principles
- Unit 4011 Fluid Mechanics
- Unit 4013 Fundamentals of Thermodynamics
- Unit 4014 Production Engineering for Manufacture

- Unit 4017 Quality and Process Improvement
- 2 HND units still to be decided

Entry Requirements

64 UCAS tariff points (minimum) from AS, A Level or AVCE programmes which includes Mathematics and Physics, BTEC National Diploma/Certificate/Extended Diploma including at least merits in Mathematics and EEP, GNVQ Advanced, an Access qualification or other qualifications deemed equivalent to the above.

GCSE Maths and English is required at grade C (or 4) or above (or equivalent O Level).

Considerations will be given, under the discretion of the course leader, for applicants with appropriate work experience, e.g. Advanced Apprenticeships, through recognition of prior learning (RPEL) process.

How To Apply

You can apply using our online application form and clicking the **Apply Now** button at the top of the page.

Career Opportunities

Upon successful completion of this course you could go into employment as a Mechanical Engineer, another engineering-related occupation or progress onto an engineering degree.

Completing these higher-level courses will also enhance your career opportunities and progression to supervisor or managerial level roles.

PLEASE NOTE

We make every effort to ensure information within our online course directory is accurate and a true representation of the courses we are offering in 2026-27. However, we do reserve the right to make changes if necessary.

Last updated: 2nd November 2026