

HNC Engineering (Mechanical)

Location	Stretford Campus
Course Type	University level
Department	Engineering
Start Date	Wednesday 16th September 2026
Duration	Full-time, 1 Year
Time	-
Fee	£ 8000.00
Course Code	TFQ-HM4H-1900

Course Overview

Embark on a dynamic journey into the world of Mechanical Engineering on this HNC course, designed to equip you with the essential knowledge and practical skills required for a successful career in this field.

Our dedicated faculty, comprised of experienced professionals, will guide you through the latest industry trends, technological advancements, and sustainable practices. You will also develop essential skills in problem-solving, project management, and teamwork, all of which are highly valued by employers in the field.

Upon successful completion of the HNC program, you will have the option to progress to an HND or enter the workforce with the confidence and competence to contribute effectively to the engineering industry.

Course Requirements

Whilst applications are considered on individual basis, offers are usually based on the requirement to have:

64 UCAS points from either:

- A level 3 vocational qualification in a related subject
- GCE A levels
- An Access to Higher Education Diploma in a related subject
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Applicants should have GCSEs grades C/4 or above in maths and English or the equivalent level 2 qualifications.

Mature students with relevant work experience and/or professional qualifications are welcome to apply and may be asked to attend interview

What You Will Learn

You will delve deep into the core principles of engineering, including specialisms such as thermodynamics, mechanical principles, and PLCs.

Mechanical Principles includes the study of fundamental laws and applications of physical sciences within engineering, including static and dynamic forces, fluid mechanics, and thermodynamics. This knowledge is supplemented by developing an understanding of the integration of mechanical engineering, electronics, computer control, and information technology.

Hands-on laboratory sessions, workshops, and industry-relevant projects will enhance your practical expertise, allowing you to apply theoretical concepts to real-world scenarios. Successful completion of the course will enable you to perform key mechanical engineering tasks in the sector, understand processes and operations, and work effectively in the industry.

Assessment

Coursework and Assignments: Coursework and assignments are common assessment tools. Students are given specific projects or tasks related to their coursework, and they are evaluated on their ability to apply theoretical knowledge to practical problems.

Practical Work: Practical laboratory sessions are a crucial part of an electrical engineering program. Students may be assessed on their ability to conduct experiments, analyse data, and draw conclusions from their findings.

Reports and Technical Writing: Students may be required to write technical reports based on their laboratory work or projects. These reports assess their ability to communicate technical information effectively.

Presentations: Students may be asked to give presentations on engineering topics, projects, or case studies. This assesses their communication and presentation skills, as well as their understanding of the subject matter.

Progression

On successful completion you may progress to a HND at Level 5 and then to a top-up Level 6 on a related undergraduate programme such as:

BEng (Hons) Mechanical Engineering
BEng (Hons) Mechanical Engineering and Management
BEng (Hons) Mechanical and Production Engineering
BEng (Hons) Mechanical and Manufacturing Engineering
BSc (Hons) Mechanical Engineering
BSc (Hons) Mechanical Engineering (Automation)

Career Options

This HNC opens a wide array of rewarding career options in various sectors. Graduates of this program are equipped with a strong foundation in mechanical engineering principles and practical skills, making them valuable assets to industries that rely on innovation, design, and problem-solving. Here are some promising career paths:

Engineering Technician
Mechanical Engineering Technician
Technician (Mechanical)
Technician Mechanics

Mandatory Units

At Level 4 you will study the following units:

Engineering Design
Engineering Maths
Engineering Science 1
CAD Schematics for Maintenance Engineering
Managing a Professional Engineering Project
Mechanical Principles
Fundamentals of Thermodynamics and Heat Transfer
Automation, Robotics and Programmable Logic Controllers (PLCs)

Extra Costs Involved

No

Exam Validation Body

Pearson Education Ltd.

Hours Per Week

6 hours (1 day) part-time.

12 hours over 2 days a week full-time

How Long To Complete

Two years part-time with one full day attendance per week

One year full-time 2 days attendance per week

Programme Structure

Each unit is worth 15 credits and over the course of the programme you will gain 120 credits.

Contact Details

For further information please email HEenquiries@tcg.ac.uk

Disclaimer

Although every care has been taken to ensure that the information contained within this document is accurate, there may be changes to this programme and provision. We will endeavour to keep prospective and current students updated where appropriate and when the information becomes available.