

Mechanical Engineering HTQ Higher National Diploma

Course Overview

This one-year Higher National Diploma (HND) in Mechanical Engineering develops advanced knowledge and specialist skills required for higher-level roles in the engineering and manufacturing sectors. Building on Level 4 study, the course focuses on advanced mechanical principles, thermofluids and modern manufacturing systems, with an emphasis on industry application. Throughout the course, you will apply your learning through practical activities and project-based work, developing problem-solving, teamwork and communication skills. This ensures you are well prepared for progression to higher-level study or employment within the engineering sector. On completion, you can progress to a top-up degree or move into higher-level engineering roles.

What you will learn

You will study advanced mechanical topics including thermofluids, advanced mechanical principles and manufacturing systems engineering. The course also introduces virtual engineering and lean manufacturing, reflecting modern industry practices and technologies. Further mathematics and professional engineering management will develop your analytical and leadership skills. Through applied projects and practical work, you will gain the confidence and expertise needed for higher-level engineering roles or further study.

Entry Requirements

Standard entry to this course requires successful completion of a Level 4 qualification in a related subject area, such as a Higher National Certificate (HNC) in Engineering. You are expected to hold GCSE English and Mathematics at Grade 4 (C) or above, or an equivalent qualification. All applicants could be invited to attend an interview to assess suitability and prior achievement.

Course Fees

For certain practical activities, you may be required to provide your own personal protective equipment (PPE).

Course Progression

This course supports progression into higher-level employment and further study within the engineering sector. On successful completion of the Higher National Diploma (Level 5), you may progress to a top-up degree (final year of a university programme) or other higher-level qualifications. Alternatively, you may choose to enter or progress within employment. The advanced knowledge and skills developed on this course are valued across a wide range of industries, including manufacturing, energy, aerospace, automotive and automation. Typical roles include design engineer, manufacturing engineer, project engineer or more senior technical positions within engineering organisations. The course is designed to prepare you for long-term career progression by developing both your technical expertise and professional skills.

What Happens Next

Step 1: Search for vacancies or apply through Leicester College Website using codes P00766 (FT) or P00728(PT). Step 2: Once submitted, your application will be reviewed by our Higher Education Team. Step 3: Any external students, if your application is shortlisted, you will receive a conditional offer. Alternatively, we may contact you by phone or email to discuss your application and request any additional information if required. Internal students go straight to Step 5. Step 4: Once you have met the conditions of your offer, typically in the summer prior to the course start date, you will be invited to attend the college. This will allow us to verify your certificates and complete the enrolment process. Step 5: After completing enrolment your Higher Education journey will officially begin with us.

Course Details

Course Code	P00266
Start Date	04/10/2027
Study Hours	Full Time
Duration	1 year
Campus	Abbey Park Campus
Level	5

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