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T Level Design and Development for Engineering and Manufacturing - Design and Development: Mechanical Engineering

Location	Stockport College
Course Type	College 16-18
Department	Engineering
Start Date	Wednesday 1st September 2027
Course Code	SFP-EG3T-1400

Course Overview

These qualifications are being offered for the first time in 2022/23 and are a technical alternative to A Levels, offering a route to University or an Apprenticeship. The T level is equivalent to 3 A levels and carries the same UCAS points but with the advantage of a minimum 315 hours engineering industry work experience and a significant practical element to the course covering either of the following occupational specialisms.

- Mechanical Engineering
- Electrical & Electronic Engineering

Course Requirements

Entry Requirements - GSCE grade 5 in Maths, English and Science and a further 2 GCSEs at grade 4. (if you don't meet the GCSE entry requirements there is an option of a 1 year Foundation T Level course

What You Will Learn

Embarking on the study of T-Level Engineering equips individuals with a multifaceted skill set, integral to navigating the intricacies of the modern engineering landscape. Proficiency in technical drawing and CAD (Computer-Aided Design) is foundational, enabling students to articulate their ideas visually and engage in the design process with precision and innovation.

Practical skills take centre stage, with hands-on experience in workshops and laboratories. T-Level Engineering students cultivate expertise in manufacturing processes, working with a variety of materials and tools. This fosters a deep understanding of how theoretical concepts manifest in real-world applications, a crucial aspect for future engineers.

Problem-solving and critical thinking are honed through project-based learning, where students tackle engineering challenges independently and collaboratively. Effective communication skills are also emphasised, acknowledging the importance of clear articulation and collaboration in the engineering field.

The benefits of T-Level Engineering extend beyond the classroom. Graduates are well-prepared for the workforce, possessing a blend of theoretical knowledge and practical skills highly sought after by employers. Additionally, T-Level qualifications offer a direct pathway to employment or higher education, ensuring a seamless transition for those eager to pursue further studies in engineering or dive into professional roles. The T-Level Engineering curriculum not only imparts technical expertise but also nurtures adaptable and resilient individuals ready to thrive in the dynamic engineering sector.

Assessment

Core units and employer set project are externally assessed exams.
Occupational specialisms are internally marked and externally moderated over an extended examination process.

Progression

Progression opportunities from a T-Level in engineering can vary depending on your specialisation within engineering and your career goals. T-Levels are designed to provide a strong foundation in technical and practical skills, making you well-prepared for further education and training. Here are some common progression routes you can consider:

Apprenticeships
Higher Education
HNC and HND Programs
Degree Apprenticeship
Professional Certifications and Licensing
Master's Degrees
Ph.D. Programs
Short Courses and Continuing Education

Career Options

Completing a T Level in Design and Development for Engineering and Manufacturing, with a focus on Mechanical Engineering, provides you with a robust foundation in engineering principles, design, and manufacturing processes. This qualification is designed to prepare you for both employment and further education in the field of mechanical engineering. Here are some career options and pathways you can explore after completing this T Level:

Junior Mechanical Engineer
CAD Technician
Design Engineer
Product Development Technician
Manufacturing Technician
Quality Control/Assurance Technician
Maintenance Technician
Project Support Engineer
Technical Sales Engineer

Mandatory Units

Engineering Core subjects such as Maths, Science, Project Management, CAD, Quality
Employer led Projects
- Essential mathematics for engineering and manufacturing
- Essential science for engineering and manufacturing
- Materials and their properties
- Mechanical principles
- Electrical and electronic principles
- Mechatronics

Contact Details

For further information please contact T: 0161 886 7070 or E: info@trafford.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.