Bradford College

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Electronic Engineering

Subject Area	Engineering
Course Type	School Leavers
Study Level	Level 1
Delivery Mode	Full-time
Duration	1 Academic Year
Start Date	September 2026
Course Code	PA000797

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Course Summary

This fun and exciting beginner course in Electronic Engineering teaches you how electronics work and how to build cool things like circuits and gadgets! It's perfect if you're just starting out and want to learn how to make electronic stuff. You'll learn the basics, like what electronic parts do and how to put them together to make things light up, move, or make sounds.

You'll get to try things out with your hands – like building and testing your own little electronic projects. The course also shows you the right way to do things and how to solve problems when things don't work. Plus, you'll learn why it's important to be safe, fair, and responsible when working with electronics.

What You Will Learn

- Learning About Electronics and Circuits: You'll find out how electronics work and what all the little parts like wires, batteries, and switches do. You'll also learn how to read special drawings (called schematics) that show how to build circuits.

- Smart Ways to Solve Problems (Engineering Practices): You'll explore how engineers think and work to make sure things are safe, strong, and work the right way.
- Hands-On Building and Testing: You'll get to build your own circuits and test them out to see if they work—just like a real inventor!
- How Big Electronic Systems Work: You'll discover how things like computers, phones, and even traffic lights work using electronic systems.
- Doing the Right Thing (Ethics and Rules): You'll learn why it's important to be honest, fair, and careful when making electronic things, and to always follow the rules that help keep people safe.

Modules

The course is divided into several modules, each focusing on different aspects of electronic engineering: A core module which has to be completed is Developing a Personal Progression Plan, which helps you plan and develop your personal and professional goals in the engineering industry.

Optional Units (Choose one)

- Manufacturing an Engineered Product Using Hand Tools: Learn how to manufacture engineered products using hand tools.
- Manufacturing a Component Using Machining Processes: Understand and apply machining processes to manufacture components.
- Using a Welding Process to Join Materials: Develop skills in welding processes to join different materials.
- Assembling Electronic Circuits: Learn how to assemble and troubleshoot electronic circuits.
- Carrying Out Routine Mechanical Servicing of Equipment: Gain practical experience in routine mechanical servicing of equipment.
- Carrying Out an Electrical Installation: Understand and perform electrical installations.
- Producing Engineering Drawings Using CAD: Learn how to produce engineering drawings using Computer-Aided Design (CAD) software.
- Carrying Out Routine Service Tasks on a Motor Vehicle: Develop skills in performing routine service tasks on motor vehicles.

Work Experience

You will complete 30 hours of relevant work experience. This includes working with local

engineering firms or projects, which helps you develop key employment skills and behaviours needed for progression to work. This experience is valuable for gaining practical insights and improving your employability in the engineering sector.

Progression

Completing the Level 1 Electronic Engineering course can lead to various career opportunities in the engineering industry. This course can be the starting point for a career in electronic engineering, such as:

- Electronic Engineer: Designing and maintaining electronic systems.
- Technical Support Specialist: Providing technical support and troubleshooting electronic issues.
- Other Engineering-Related Careers: Opportunities in system design, product development, and more.