

Smart Digital Technologies and Diagnostics - (BTEC Level 3 Extended Diploma in Electrical/Electronics Engineering)

The two year programme will be delivered in our new Samsung Experience Academy where students will work with the latest high tech technology products from 3D LED Smart TVs, blu ray players, 3D surround sound systems, PCs and a wide range of Smart hand held devices. Students will be equipped with both the technical knowledge and the practical skills to prepare them to progress on to an Advanced Apprenticeship programme with key employers within the SMART digital technologies sector. Birmingham Metropolitan College has excellent links with the technology industry sector through Samsung Electronics UK and key national companies including Dixons Retail, PC World, Currys, BSkyB, CEDIA Group, John Lewis and the Premier Samsung Service Network UK-wide.

Year 1

- Health and safety in the engineering workplace
- Mathematics for engineering technicians
- Electrical and electronic principles
- Electronic devices and communication applications
- Operation and maintenance of electronic systems and components – Samsung Smart devices
- Electronic circuit construction
- PC hardware and software installation and configuration
- Mobile communication technology – home audio/video wireless networking Smart devices

Year 2

- Engineering project – Smart devices
- Communications for engineering technicians
- Principles and applications of electronic devices and circuits
- Electrical technology
- Electronic measurement and testing
- Principles and applications of analogue electronics
- Construction and applications of digital systems
- Microprocessor systems and applications
- Electronic fault-finding – Smart devices



THE ACADEMY AT KIDDERMINSTER

BIRMINGHAM METROPOLITAN COLLEGE AND KIDDERMINSTER COLLEGE WORKING IN PARTNERSHIP

- Learn how to network and stream audio/video with over 39 of the latest Samsung home technology Smart products
- Learn how to carry out advanced fault diagnostics and repair on a wide range of Smart technology devices
- Learn the latest technologies in 3D, LCD, LED display devices and 3D surround sound systems
- Construct, test and fault diagnose electronic circuits and work with the latest digital surface mount technology soldering kits.

All students on the course will also develop the essential employability skills to enter employment. Using the latest video conference facilities, students will have the opportunity to interact with employers around the world.

Entry Requirements

4 GCSEs at grade C, including English, Mathematics and Science at grade C or above as a minimum, plus a course interview.

Progression/Employment Opportunities

Advanced Apprenticeships within the Digital Electronics Technology

Sector or progression on to University or an employer-led Graduate Apprenticeship programme.

