



# ETC Laboratory

Hands on learning

# On-site Facility

research | experiment | create

**Mechanical Engineering**

**Electrical and Electronic Engineering**

**Computing and Networking**

The ETC International College laboratory and workshop facility has completed a significant refurbishment and is now being used for a wide range of practical learning applications for our students.

The on-site facility is divided into four distinct areas, all of which are equipped to allow students the opportunity to research, experiment and create technology and equipment integral to their course of study.

The areas are also used for prototype development and testing linked to project work, where Electrical, Electronic, Mechanical and Aeronautical disciplines can overlap, for example with the installation of electrical & electronic control systems into remote control yachts.



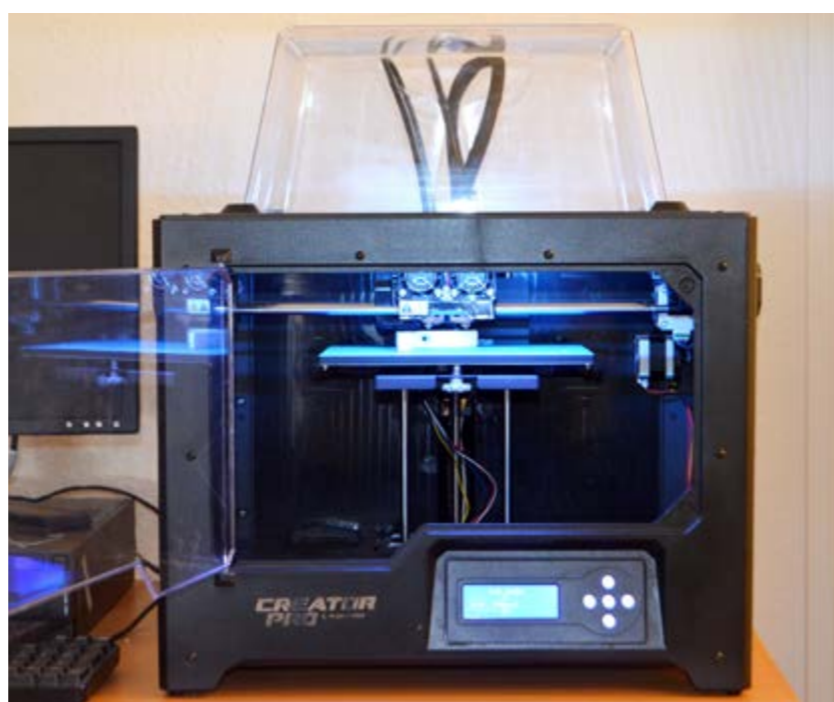
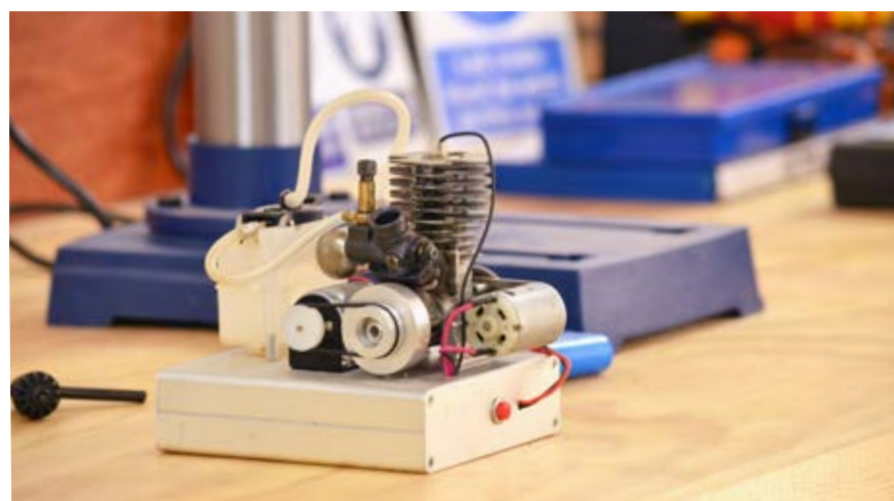
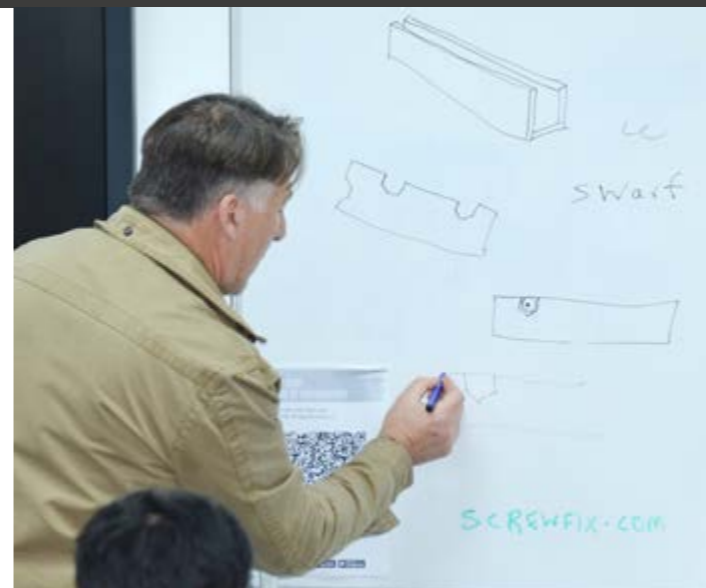
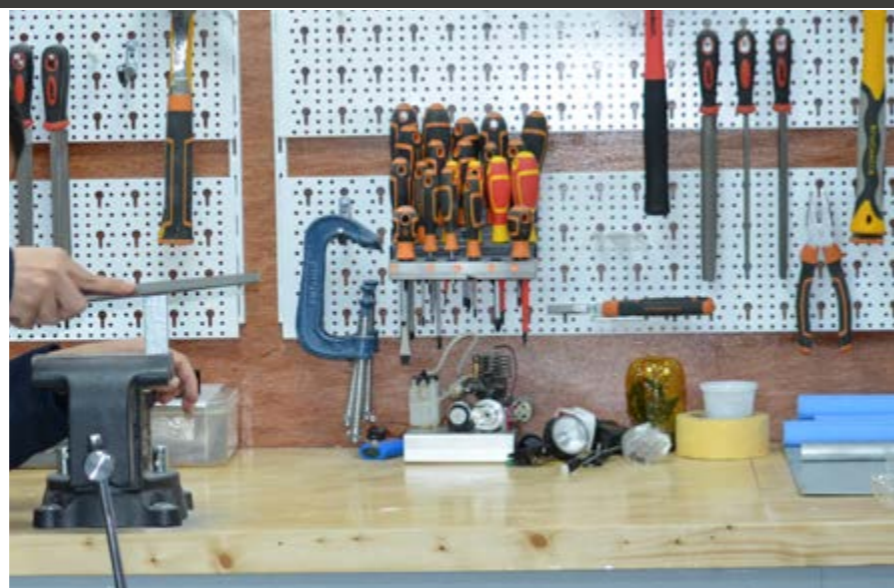


# Mechanical Engineering

Benches are equipped for a range of manufacturing, assembly and disassembly operations and there is a light machining section adjacent to the main work area.

Destructive and Non-Destructive testing can be carried out, and demonstration equipment can be used by students to bring theory to life.

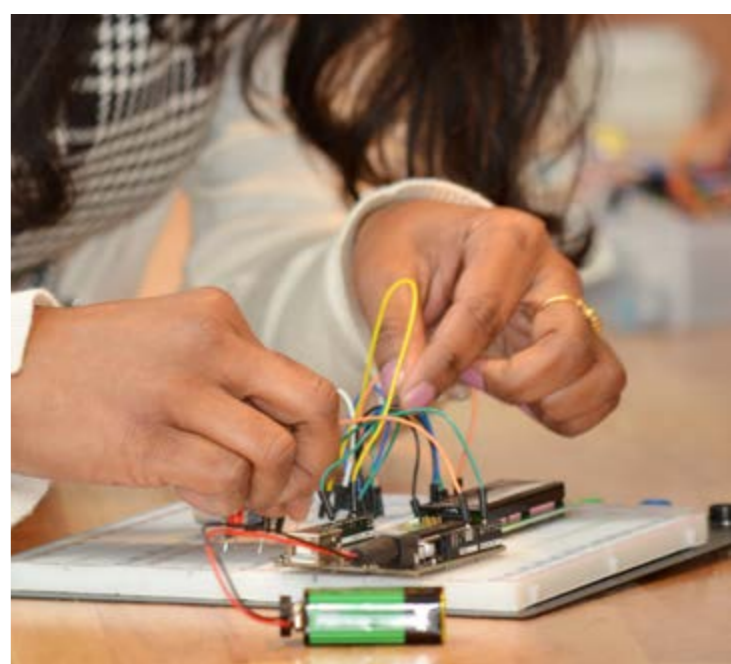
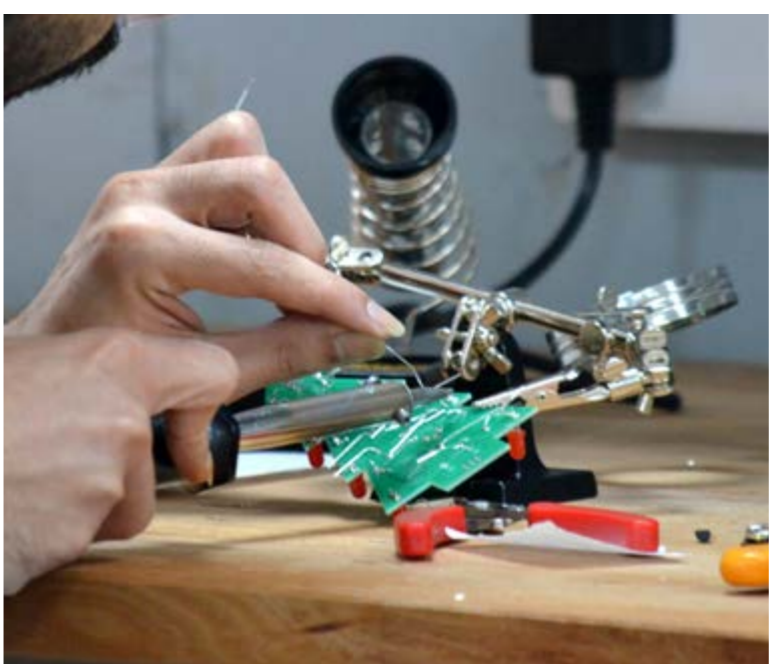
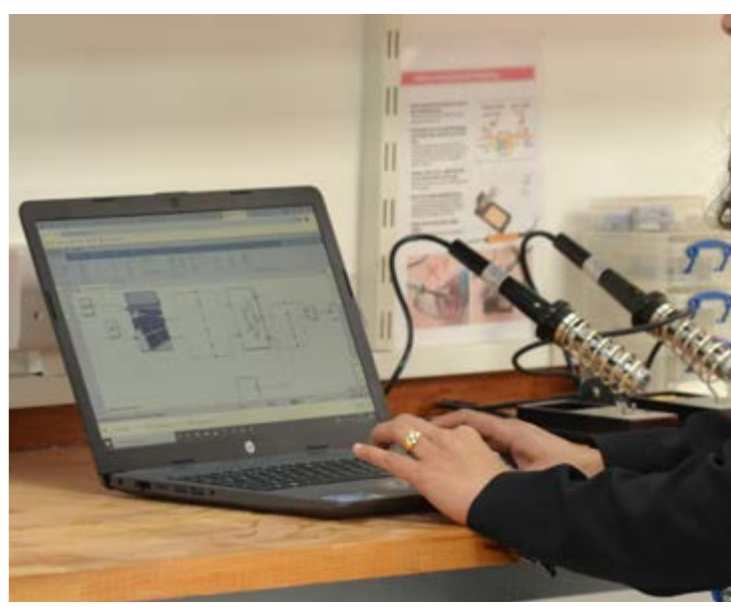
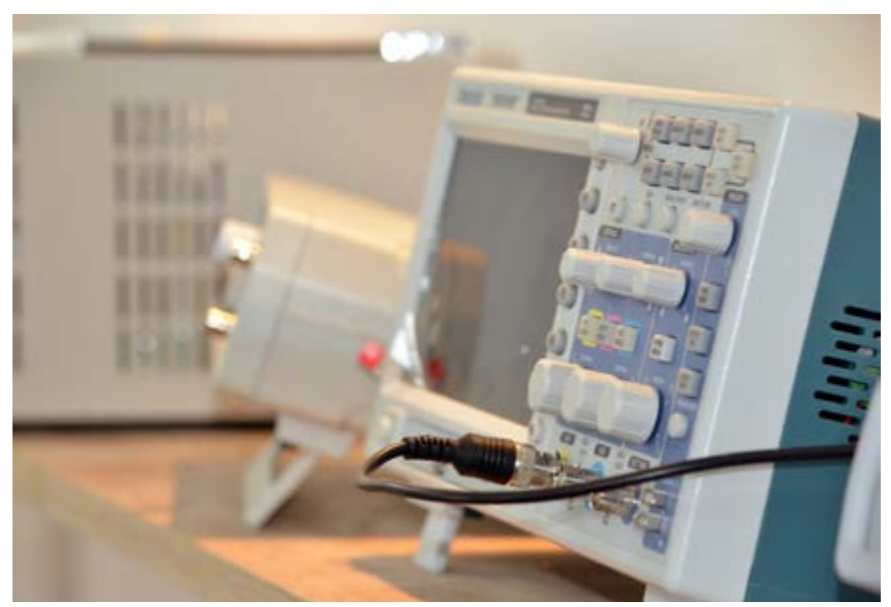
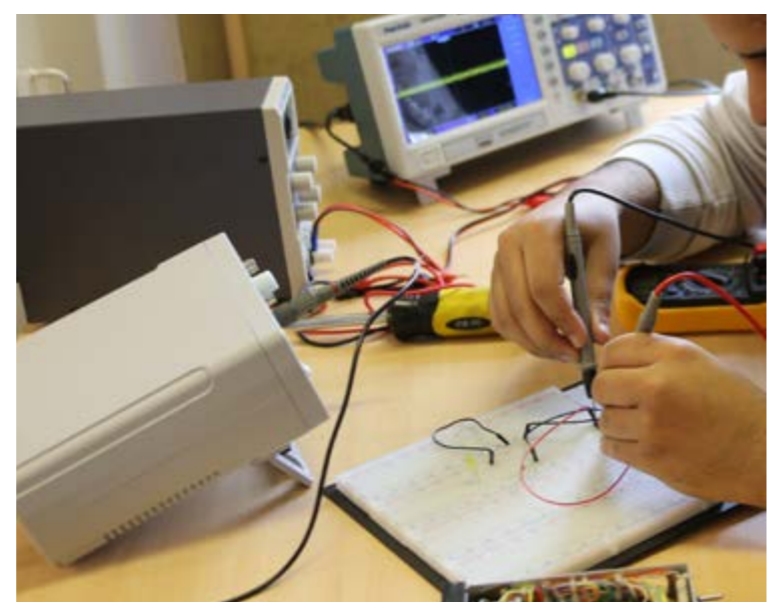
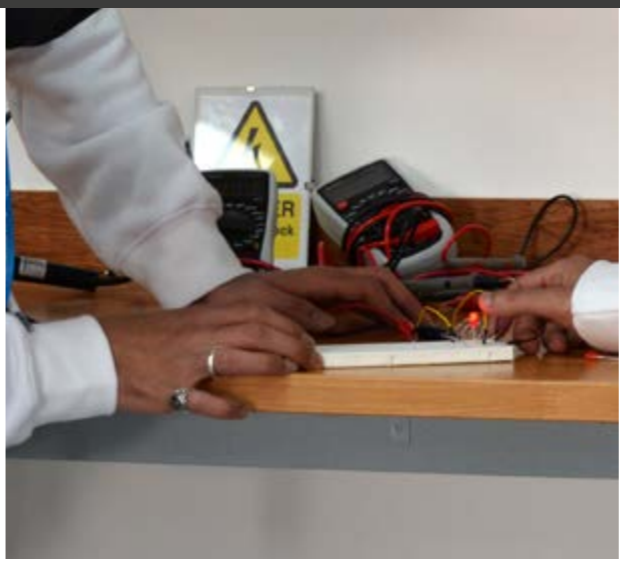
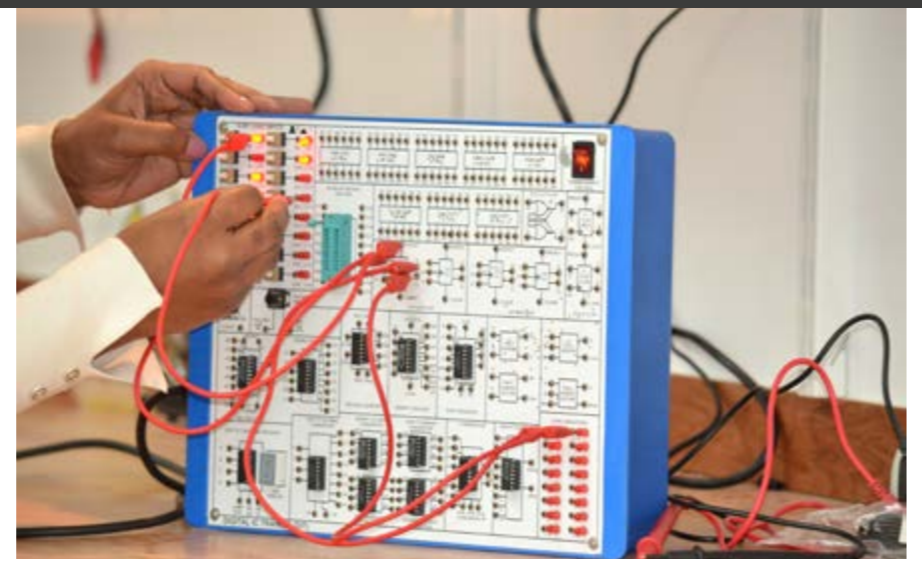
The area is used as part of taught units on Mechanical Principles (and Advanced Mechanical Principles), Thermodynamics & Thermofluids, Virtual Engineering and Additive Manufacturing (3D printing), Engineering Science and Research Projects.





# Electrical & Electronic Engineering

Work stations are equipped with standard electrical and electronic bench equipment to enable soldering, assembly and build work and testing. This facility is used to teach from the basic principles of electricity and electronics through to embedded control systems, industrial systems theory, digital technologies and devices and electrical machines. The integration of student work into larger machines and systems can involve the use of 3D printing technology for housings, chassis or bespoke student designs, or use of the mechanical workshop facilities, as necessary.

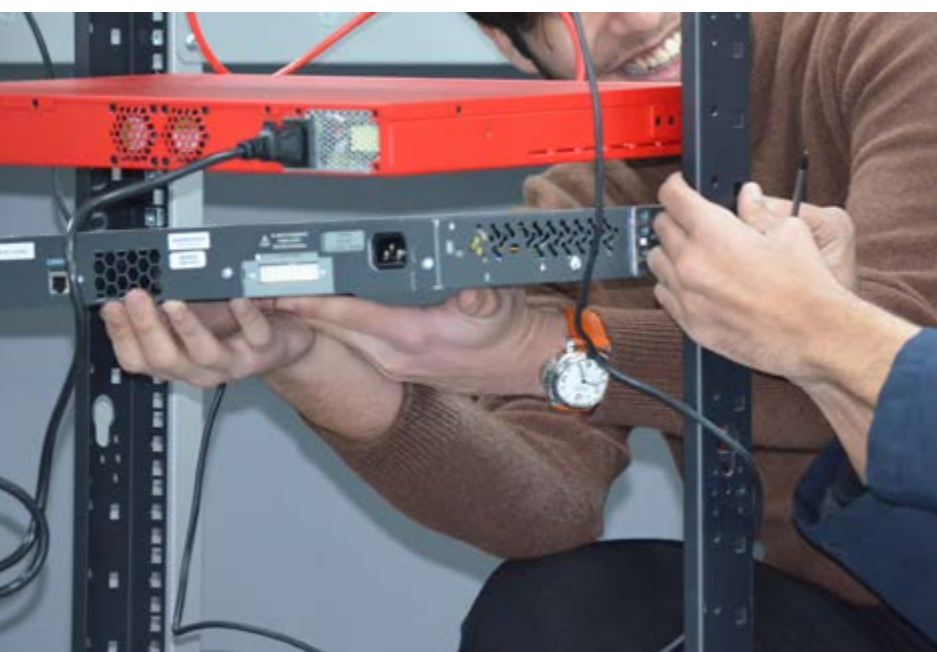
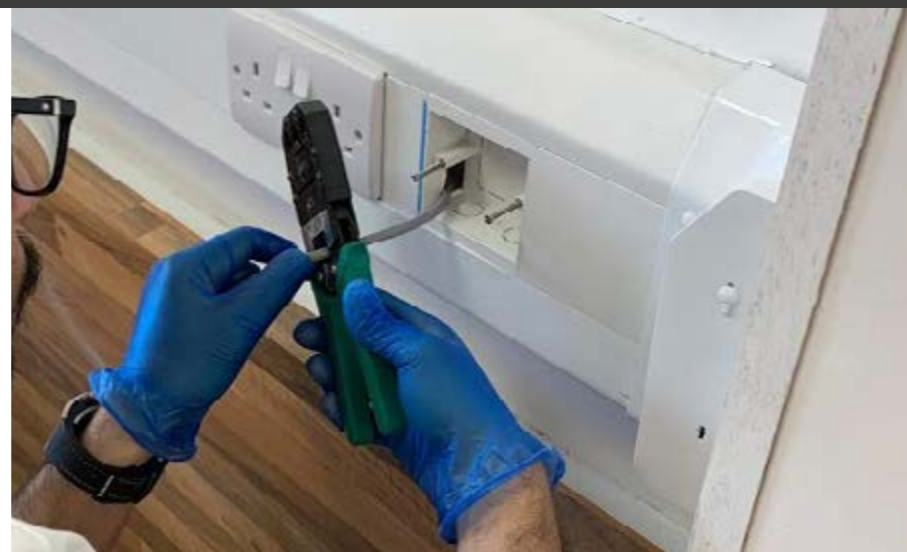




# Computing

Networking

Students can build, connect and test a working network with industry standard equipment, in our laboratory area. Cabling and installation can also be practised in adjacent parts of the college, depending on the specific course followed by the student.





# ETC International College

## Contact Us

ETC International College | 22-26 West Hill Road | Bournemouth | BH2 5PG

Tel: +44 (0) 1202 559 044 | Fax: +44 (0) 1202 780 162

**[www.etc-inter.net](http://www.etc-inter.net) | [english@etc-inter.net](mailto:english@etc-inter.net)**