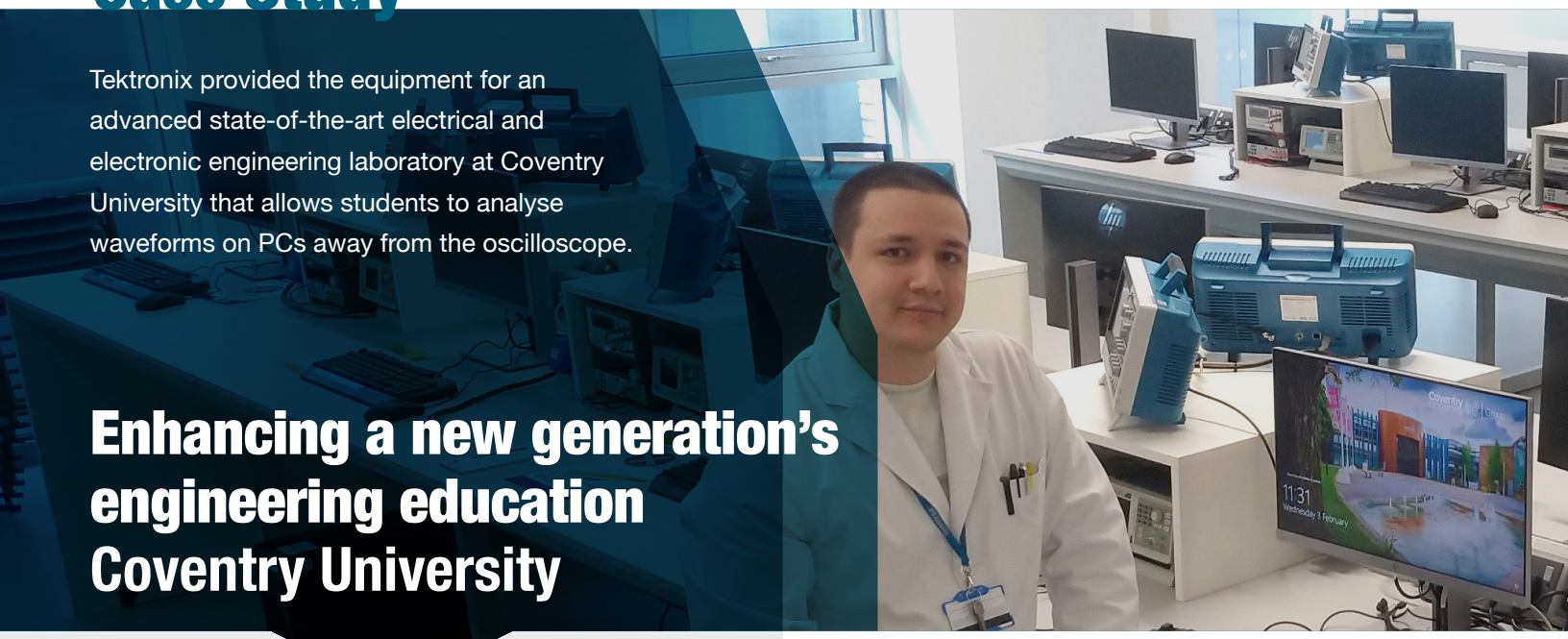
Case Study

Tektronix provided the equipment for an advanced state-of-the-art electrical and electronic engineering laboratory at Coventry University that allows students to analyse waveforms on PCs away from the oscilloscope.



Enhancing a new generation's engineering education Coventry University

THE CUSTOMER CHALLENGE

Founded as Coventry College of Design in 1843, Coventry University has a long tradition as an education provider with a focus on key disciplines, including engineering. Today, the university's Faculty of Engineering, Environment and Computing offers a wide range of courses, cutting-edge facilities, and industry-focused learning **with the aim of producing job-ready graduates with industry-standard experience and knowledge.**

To build on the university's high-quality research-led teaching and learning and enhance the student experience, the Faculty **recognised the need** to build an advanced state-of-the-art electrical and electronic engineering laboratory.

THE SOLUTION

Sited in the Beatrice Shilling Building, Tektronix and SJ Electronics provided all the equipment for 53 seated workstations, across three laboratories. These advanced workstations would enable first and second year students to perform an extensive range of practical electronics and physics experiments, both at the workstation and at remote PCs. The solutions supplied include:

- **Tektronix TekScope™ PC Analysis software**
- **TBS2074B, 70 MHz digital storage oscilloscope**
- **AFG1022, 25 MHz Arbitrary/Function Generator**
- **Keithley 2110, 5.5 digit digital multimeter (DMM)**

The workstations will help students prepare for a new world of remote analysis and networking accelerated by the pandemic. The TekScope™ Software solution brings the power of the oscilloscope analysis environment to the PC, giving students flexibility to perform analysis tasks in the lab and continue their work outside of it. The analysis software enables students to analyze waveforms just as they would on the oscilloscope, without the need for the scope itself. This will prepare them for industry-based environments whilst enhancing collaboration and sharing with other students.

"The exciting range of software and equipment Tektronix, Keithley and SJ Electronics have provided us with represents our commitment to developing truly excellent teaching and learning spaces for our students and staff to take advantage of.

"I have no doubt that collaborating with Tektronix to kit out our facilities with such high-quality equipment will help us take the faculty's offering to a whole new level."

Nik Tsanov, Development Officer (Electronics) for Coventry University,

PRODUCTS, SOFTWARE, AND SERVICES PROVIDED

Bench Configuration	
Product	Description
	**TekScope™ PC Analysis software ››** View On Tek.com For the analysis capability of an award-winning oscilloscope on a PC
	**TBS2074B, 70 MHz digital storage oscilloscope ››** View On Tek.com For great performance in measuring signals
	**AFG1022, 25 MHs Arbitrary/Function Generator ››** View On Tek.com For generating all kinds of waveforms needed in a lab
	**Keithley 2110, 5.5 digital multimeter ››** View On Tek.com For high precision and low cost

If you would like to learn more about solutions for the education lab or this project, visit tek.com/education or contact us at 1-800-833-9200.

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