



University of Westminster: Collaborative learning spaces using Cynap and vSolution MATRIX



Collaborative learning space in the Department of Computer Science at The University of Westminster, London, UK

Originally established in 1838, the University of Westminster, located in Harrow and at three campuses in the Central London, is a diverse and dynamic international education institution. With more than 19,000 students from over 169 different countries on its undergraduate, post-graduate, and professi-

onal courses, it is one of the most popular universities for international students in the United Kingdom. Westminster provides an outstanding learning environment where students can learn the knowledge and skills they need, in order to succeed in their professional careers. The university has already deployed a number

of collaborative classrooms, and this latest project from WolfVision UK sales partner Reflex Ltd., was designed to set up two additional collaborative learning spaces in the Department of Computer Science. The first room would be used as a computer lab where students could work together collaboratively, and the second room

would focus more on discussion-based work, with a single large group display screen at the end of each group seating area. In the computer lab, QSC custom-designed APIs enable Wolfvision Cynap systems and QSC Q-SYS to work seamlessly together, with everything easily controlled using a QSC touch panel. The user ex-



perience is intuitive and extremely easy to use, and the rooms are designed so that simply touching the screen or plugging in a device turns the system on. The system remains on whilst users are connected to it, and actively using it.

A WolfVision vSolution MATRIX AV-over-IP-based active learning

collaboration solution comprising a single Cynap system, and six connected Cynap Core Pro devices (one for each workstation) enables classroom content materials to be easily shared on-screen either from the PCs in the room, or wirelessly from students' own laptops, smartphones or tablets.

A key advantage of the Cynap systems is that support for AirPlay, Chromecast and Miracast screen mirroring protocols means that no apps, dongles, or additional software are needed before students can connect wirelessly to the workstation screens. This provides comprehensive compatibility,

and simple connectivity for all students, no matter what make or model of laptop, smartphone or tablet they are using.

Groups can easily share ideas and programming code to their workstation screen using their personal devices, but the lecturer retains control over what content is shared on-screen



The lecturer's lectern with WolfVision Visualizer for display of physical content materials, plus a touch panel on the right with customised 'Room View' for control of the vSolution MATRIX system.



between the different workstations, and onto the main screen at the front of the room.

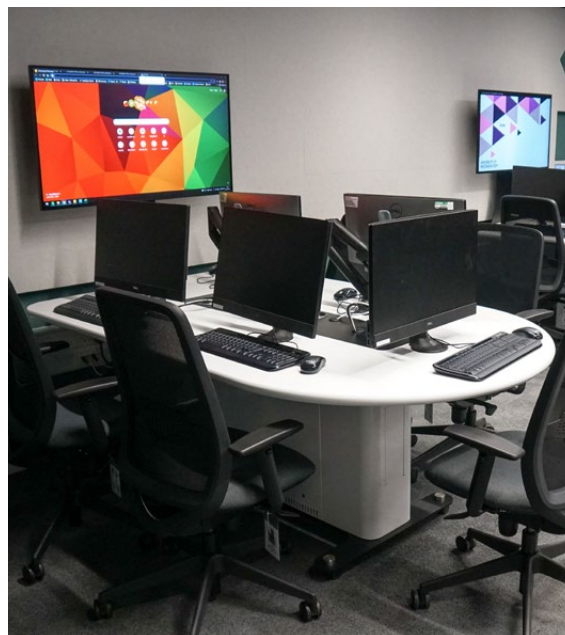
Lecturers can also easily control sound levels, camera movements, and the WolfVision VZ-3neo Visualiser in the room. Content sharing is made easy by using the WolfVision vSolution MATRIX customisable 'Room View' which is displayed on a touch panel located on the lectern. This enables easy drag and dropping of on-screen content materials between the different workstation screens, and main screen in the room.

TeamMate technical furniture is used in both rooms. In the computer lab, a VariHite Lectern is installed. In the discussion-based collaboration room, four TeamMate WorksZone 6-seat Collaboration Tables with all-in-one PCs were placed around the outside of the room. In addition, there are two

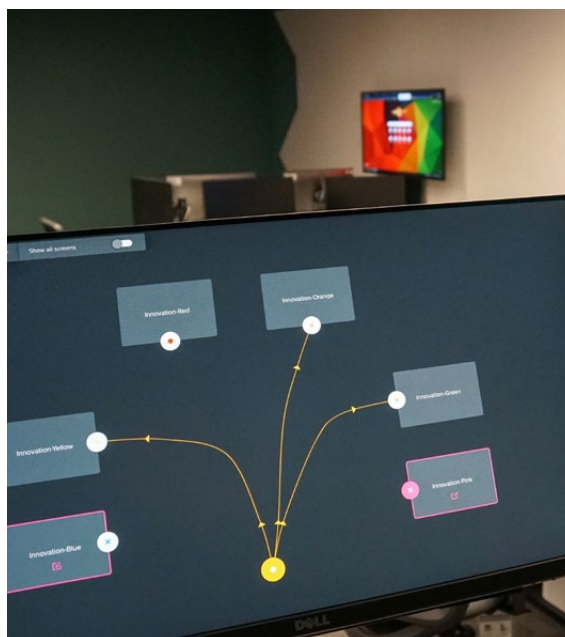
10 seat Kobi PC Tables in the middle of the room. Within each table there is a WolfVision Cynap Core Pro which is connected using network infrastructure to the main Cynap system located in an Educator Single VariHite Lectern, for use by the lecturer.

The overall solution provides an outstanding collaborative learning environment for students which includes the possibility to incorporate materials from any laptop, smartphone or tablet, and enables effortless sharing of content across any of the display screens in the room.

WolfVision is very proud indeed that its solutions play a key supporting role in student education at University of Westminster, and looks forward to providing support and advice to this leading educational institution for many years to come.



Workstation for group working at The University of Westminster.



The vSolution MATRIX 'Room View' on the touch panel, enables simple drag-and-drop movements to be used to share digital and analog content between the different screens in the room as required.