ESP OFFICE AND CLASSROOM FACILITIES

The ESP office, which is about 84-m² is located at Level 6, Block EA. Each faculty member is assigned a private office equipped with a network-connected personal computer and laser jet printer. The Faculty of Engineering has 8 lecture theatres and one auditorium with capacities ranging from 150 to 490 students. There are approximately 60 tutorial/seminar rooms of various sizes which can accommodate 24 to 80 students each.
ESP has five teaching laboratories covering a total area of 544.5-m². The 107-m² Innovator’s Lab at level 5 of Block WS2, houses electronic instrumentation within each computer desk, so that electronics experiments/projects can be carried out conveniently. This laboratory also showcases many hands-on experiments in electricity and magnetism. The 230-m² ESP Multidisciplinary Lab at level 3 of Block E3, houses the Nanotechnology Lab as well as the Photonics and Optics Lab. The Nanotechnology Lab contains a chemical vapour deposition system, x-ray diffractometer, spectrophotometers, ovens, chemical benches, and a mini-workshop. The Photonics and Optics Lab has a scanning auger microscope, a FESEM which allows for accessories such as EDX and Nano-manipulator probes, the world’s smallest portable SEM, an AFM and an electron optical column. The 100-m² ESP Design Studio houses the Energy Systems 3rd year lab and the lab has a dual side glove box, a combined thermo-gravimetric and differential scanning calorimetry facility, a solar simulator, a battery tester and computers. Recently, students work on their solar-powered golf buggy design project in this studio. The 27.5-m² ESP/CIBA Nanofabrication Lab is located in the Department of Physics, and it houses equipment such as PDMS curing desiccators, laser writer, plasma cleaner, spin coater, ovens, air compressor, optical table, stereozoom, inverted microscope for DNA nanofluid analysis and UV resist lithography lamp. Another ESP Imaging Lab/CIBA Photonics Lab of about 80-m² is located in the Department of Physics, and it houses design benches and equipment such as a laser writer and bioimaging inverted fluorescence microscope.
Faculty of Engineering and Faculty of Science
Engineering Science Programme

Mission Statement
To be the premier institution providing quality engineering education and leadership in research, development and application of technology for the advancement and well-being of the nation.

2-sided Glove Box
Solar Simulator
Electron Optical Column
SEM
Chemical Vapour Deposition System for growing nanostructures