

NITEC IN CHEMICAL PROCESS TECHNOLOGY

Electives (Course Specific)

Basic Microbiology Techniques

On completion of the module, students should be able to apply skills and knowledge in performing media preparation and sterilisation. The students will also learn testing skills in microbiological culture, identification and enumeration of microbes from industry samples.

Distributed Control System

On completion of the module, students should be able to operate and do simple configuration on the DCS like changing range, alarm limits, adding new points and simple modification of both graphics and reports respectively.

Process Gas Chromatography

On completion of the module, students should be able to apply skills and knowledge to operate process gas chromatograph and conduct process gas chromatograph calibration. They also learn to service switching valve and conduct routine maintenance of the sampling system.

Waste Water Treatment and Processes

On completion of the module, students should be able to apply skills and knowledge in performing setting up and commissioning of sand filtration system and conducting various water quality tests on raw water or wastewater specimens in accordance to safety and health parameters. They will also gain knowledge on the various water treatment processes and emerging water treatment technologies available in Singapore.