

# DIPLOMA IN ENGINEERING TECHNOLOGY MANUFACTURING SYSTEM

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## PROGRAMME BRIEF

Manufacturing System is a programme that emphasizes the interrelationships between manufacturing equipment, processes and controls, and their integration into production factories. The combination of technological knowledge of high-tech production systems and knowledge of production processes is essential for manufacturing organizations to be efficient, innovative and sustainable in the increasingly competitive markets.

Based upon these challenges, this programme was developed to provide students with a broad knowledge, skills and attitude to perform tasks in designing, implementation, and efficient operation of manufacturing systems. Among the main technologies that will be used are robotics, programmable logic controllers, computer-integrated manufacturing and their application in automated production, assembly, automated inspection, and automated packaging.

The state-of-the-art equipment including industrial robots, CNC Milling, CNC Turning, Computer Integrated Manufacturing System (CIMS) and fully automated Flexible Manufacturing System (FMS) are used to prepare the students with broad skills and multi-disciplinary competencies focusing on efficient production in technology-intensive manufacturing industries.

## CORE STUDY AREAS

- Automated Manufacturing
- Flexible Manufacturing System (FMS)
- Computer Integrated Manufacturing System (CIMS)

## JOB OPPORTUNITIES

- Manufacturing Assistant Engineer
- Industrial Assistant Engineer
- Automation Technical Assistant
- Production Assistant Engineer /Technical Supervisor

“ Manufacturing is more than just putting parts together. It's coming up with ideas, testing principles and perfecting the engineering, as well as final assembly. ”

James Dyson  
British Inventor

