

# BEng (Hons) in Manufacturing Engineering (BEME) JUPAS CODE: 1602

## **What is Manufacturing Engineering?**

‘Manufacturing Engineering is that speciality of professional engineering which requires such education and experience as is necessary to understand, apply and control engineering procedures in manufacturing processes and methods of production of industrial commodities and products, thus requiring the ability to plan the practices of manufacture, to research and develop the tools, processes, machines and equipment, and to integrate the facilities and system by which products may be manufactured economically.’

----- Society of Manufacturing Engineers, USA



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## What to learn ?

Computer Integrated Manufacturing (CIM)

Internet and Web Applications, CAD/CAM,  
Flexible Manufacturing System

Advanced manufacturing technology

Advanced Materials, Robotics,  
Rapid Prototyping,..



Computer Information Technology

AI, Knowledge Based Systems, Virtual  
Reality, Machine Vision

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Programme Structure **JUPAS CODE: 1602**

The normal length of study for the full-time study of the programme is three years.

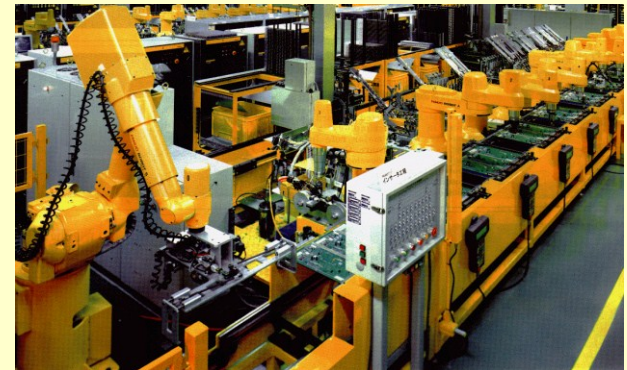
The curriculum is based on a credit unit system.

For graduation, students shall complete at least 105 units of courses which include:

- 84 units of Core courses
- 6 units of English courses;
- 6 units of Chinese Civilization courses;
- 9 units of Out-of-Discipline courses.

Transfer to the MEng in Manufacturing Engineering with Business Management programme

Awarded two degrees



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**Subject areas:** JUPAS CODE: 1602

Engineering Materials, Engineering Analysis & Design, Manufacturing Processes, CAD/CAM, Tool Design, Product Design and Management, Computer Aided Process Planning and Manufacturing Process Analysis

Internet Application, Computer Programming, Electronic Engineering, Automation Technology, Manufacturing Database & Systems and Flexible Manufacturing Systems and Control Principles

Engineering Management, Quality Engineering, Ergonomic Design, Manufacturing Information Systems and Manufacturing Systems Simulation



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**Career Prospects:** JUPAS CODE: 1602

With the ever expanding engineering industry in Asia, graduates of this programme will find ample job opportunities.

Graduates can work as engineers in engineering and servicing sectors. Typical job titles include:-

- Manufacturing & Industrial Engineer
- Product Design Engineer
- Project Engineer
- Process and Production Planner
- Computer Software Support
- Quality Assurance Engineer



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