

FACULTY OF MANUFACTURING ENGINEERING (FKP)

Faculty of Manufacturing Engineering offers one (1) new taught course programmes:

Programme Structure

Programme : Master of Manufacturing Engineering (Advanced Materials & Processing)

MQF Level : 7

NEC Field : 527 – Material Engineering

Mode of Study / Duration : Full-Time (1 – 2 years) / Part-Time (2 – 4 years)

The taught course programme is developed to provides a fundamental understanding of advanced materials properties, their processing, the techniques used for their characterization and computer-based design procedures, which are essential for product commercialization from the concept phase. It also includes the development of new materials and the improvement and application of current materials in new and novel structures.

| Section | Course | Credit |
|--|---|--------|
| Compulsory | Research Methodology | 3 |
| University Elective (Choose one only) | Engineering & Technology Management, or Entrepreneurship, or Project Management, or Quality System Management | 3 |
| Program Core | Seminar on Manufacturing Engineering | 0 |
| | Sustainable Product Design & Manufacturing | 3 |
| | Advanced Manufacturing Process | 3 |
| | Engineering Optimization | 3 |
| | Engineering Economy | 3 |
| Elective (Choose four only) | Advanced Technique for Materials Characterization | 3 |
| | Surface Science & Engineering | 3 |
| | Energy Materials & Devices | 3 |
| | Advanced Composites Materials | 3 |
| | Materials Design & Selection | 3 |
| | Forensic Materials Engineering | 3 |
| Master Project I & II | | 10 |
| Total Credit hours | | 40 |

Programme Fee

| No. | Postgraduate Programme | Study Mode | Mode of Registration (Year) | | Academic Fee | |
|-----|---|---------------|-----------------------------|-----------|----------------|--------------------|
| | | | Full Time | Part Time | Malaysian (RM) | International (RM) |
| 1. | Master of Manufacturing Engineering (Advanced Materials & Processing) | TAUGHT COURSE | 1 - 2 | 2 - 4 | 6,790 | 11,290 |

Further Information

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