UNIVERSITI SAINS MALAYSIA

APEX™

# MASTER OF SCIENCE IN ADVANCED MANUFACTURING ENGINEERING WITH MANAGEMENT

## COURSEWORK MODE

FUTURE-READY TECHNOCRATS:
WHERE ENGINEERING MEETS MANAGEMENT

MQA/PSA18479

### Benefits Include:

- Earn an MSc with Certified Lean Six Sigma Yellow Belt
- Gain both technical and managerial expertise
- Advance your career with industry-relevant skills
- Flexible schedule designed for working professionals

*Application Deadline*

*for the first intake, Semester I, Academic Session 2025/2026*

**31 AUGUST 2025**
*MALAYSIAN*

**15 JULY 2025**
*INTERNATIONAL*

**REGISTER NOW**

https://onlineips.usm.my/

04-5996365

msc_amem@usm.my

School of Mechanical Engineering USM
Graduate School of Business USM

# BROCHURE 1

## ADMISSION REQUIREMENT

**A. Bachelor's degree in STEM**

A minimum CGPA of 2.75/4.00 or equivalent and a minimum of 1 year of working experience in business/management background; or

A minimum CGPA of 3.25/4.00 or equivalent (without working experience); or

For those who do not meet the above requirement should at least meet one (1) of the following additional conditions:

a) Research experience for at least three (3) years; or

b) Work experience in a related field for at least three (3) years; or

c) At least one (1) academic publication in the relevant field; or

d) Grade B+ for the final year project

**B. Bachelor's degree in other than STEM**

A minimum CGPA of 2.75/4.00 or equivalent and a minimum of 1 year of working experience in the technical field/manufacturing industry; or

A minimum CGPA of 3.50/4.00 or equivalent (without working experience); or

For those who do not meet the above requirement should at least meet one (1) of the following additional conditions:

a) Research experience for at least three (3) years; or

b) Work experience in a related field for at least three (3) years; or

c) At least one (1) academic publication in the relevant field; or

**C. APEL A (Level 7)**

## LANGUAGE REQUIREMENTS

**The applicant is not a Malaysian citizen;**

- MUET minimum 3.5; or
- IELTS minimum 5.0; or
- TOEFL iBT minimum 40; or
- TOEFL Essentials (online) minimum 7.5; or
- PTE Academic minimum 47; or
- Cambridge English: B1/B2/C1/C2/Linguaskill Online minimum 154

*Exception if English is the mother tongue or has completed the Bachelor's degree fully in English.*

*Basic qualification requirements include the MUET band*
*Minimum score of Band 3.5 in MUET (Malaysian University English Test)*

## FEES

| Semester | Malaysian Student (MYR) | International Student (USD) |
|---|---|---|
| 1 | Registeration fee | |
| | RM280.00 | USD132.50 |
| | Personal bond | |
| | NIL | USD1000.00 |
| | Convocation fee | |
| | RM200.00 | USD200 |
| | Fee for EKC500 (IPS) | |
| | RM320.00 | USD80 |
| | Credit fees | |
| | RM605 / credit<br>RM605 x 18 Unit<br>= RM10,890.00 | USD200/credit<br>USD200 × 18 Unit<br>= USD3600.00 |
| 2 | Credit fees | |
| | RM605 x 22 Unit<br>= RM13,310.0 | USD200 x 22 Unit<br>= USD4,400.00 |
| **Total** | **RM 25,000.00** | **USD 9412.50** |

## APPLICATION

To apply for admission please visit Institute of Post Graduate Studies (IPS) at http://ips.usm.my

For further information, please contact:


**PROGRAMME COORDINATOR**
**Ir. Dr. Nur Amalina Binti Muhammad**
School of Mechanical Engineering, Engineering Campus,
Universiti Sains Malaysia
14300 Nibong Tebal, Penang.
Tel: 604 -5996365
Email: msc_amem@usm.my
Website: https://mechanical.eng.usm.my


SCAN HERE
https://mechanical.eng.usm.my

# MASTER OF SCIENCE IN ADVANCED MANUFACTURING ENGINEERING WITH MANAGEMENT

SCHOOL OF MECHANICAL ENGINEERING & GRADUATE SCHOOL OF BUSINESS

"FUTURE-READY TECHNOCRATS: WHERE ENGINEERING MEETS MANAGEMENT"

*Disclaimer: The commencement of this program is subjected to approval from the MOHE*

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https://mechanical.eng.usm.my

# BROCHURE 2

## INTRODUCTION

**Master of Science in Advanced Manufacturing Engineering with Management** is the first MSc coursework program offered by the School of Mechanical Engineering at Universiti Sains Malaysia. The program aims to train professionals and equip them with advanced knowledge in manufacturing technology and organizational management skills. It will be delivered in a hybrid format, expertise of both the School of Mechanical Engineering and the Graduate School of Business (GSB) at USM. The courses offered cover topics in manufacturing engineering relevant to Industry 4.0, such as automation, robot control systems, IoT, additive manufacturing technology, and CAD/CAM. The course also includes management-related subjects such as leadership practices, organizational control, and strategic planning.

## PROGRAMME REQUIREMENTS

### Compulsory Courses

Students must take all the listed compulsory courses:

| | |
|---|---|
| EPP501 Lean Six Sigma | 3 units |
| ADC601 Managing People in The Organization in Digital Age | 3 units |
| EKC500 Science and Engineering Research Methodology | 3 units |

### Core Courses

Students must take all the listed core courses:

| | |
|---|---|
| EPP502 Operation Management | 3 units |
| EMH501 Sustainable Energy Resources and Management | 3 units |
| ADC605 Accounting for Managers | 3 units |
| ADC610 Corporate Strategy and Policy | 3 units |
| EPD501 Master Project | 10 units |

### Elective Courses

Students must take only four elective courses (12 Units) out of the listed below:

| | |
|---|---|
| EPP503 Robotics and Smart Factory | 3 units |
| EPP504 Artificial Intelligence and Smart Manufacturing | 3 units |
| EPP505 Additive Manufacturing | 3 units |
| EMM501 Statistical Quality Control for Managers | 3 units |
| ADC603 Technology and Information Management | 3 units |
| ADE619 Global and Supply Chain Management | 3 units |
| ADE621 Productivity and Quality Management | 3 units |
| ADE624 Logistics and Distribution Management | 3 units |

### Credit Requirements for Graduation

Students enrolling under this programme must fulfill 40 credits to graduate. The credit distributions for compulsory courses, elective courses and project are as follows:

| | |
|---|---|
| Compulsory Courses | 9 units |
| Core Courses | 22 units |
| Elective Courses | 12 units |

### Duration of Candidature

| | Minimum | Maximum |
|---|---|---|
| Full-time | 1 Year (2 Semesters) | 2 Years (4 Semesters) |
| Part-time | 2 Years (4 Semesters) | 4 Years (8 Semesters) |

## COURSE SYNOPSIS

**EPP501| Lean Six Sigma | 3 Units**
This course introduces students to lean manufacturing and six sigma, including thinking, tools and techniques.

**EPP502|Operation management | 3 Units**
This course focused on various areas of management in designing and controlling the production process, as well as rethinking company activities in the production of goods or services.

**EMH501| Sustainable Energy Resources and Management | 3 Units**
This course provides sustainable energy overview that covers various sustainable energy resources, technologies, and applications.

**EPD501| Master Project | 10 Units**
The master project provides a space for students to apply the knowledge they have learned throughout the program. This course focuses on the abilities of students in the process of conducting research projects based on current issues or problems faced in the industry.

**EMM501| Statistical quality control for managers | 3 Units**
The course covers the principles of quality control and total quality system, statistical foundations and statistical process of quality control, and acceptance sampling procedures.

**EPP 503| Robotics and smart factory | 3 Units**
The course emphases on both principles and strategies of robotics and manufacturing automation, to prepare the learners in resolving future challenges especially technological deployment and management in smart factory.

**EPP504| Artificial intelligence in smart manufacturing| 3 Units**
In this course, the concentration will be allocated on three areas: knowledge representation, search techniques and architecture and AI learning system.

**EPP505| Additive manufacturing| 3 Units**
In this course student will learn the importance of additive manufacturing (a.k.a. 3D Printing) and its huge role in global product development and innovation.

**ADC601| Managing People in The Organization in Digital Age | 3 Units**
Managing people and organization covers the basic functions and roles of managers in an organizational environment.

**ADC605| Accounting for Managers | 3 Units**
This course covers the core knowledge of the essential features of financial accounting and management accounting from the perspective of a non-business major.

**ADC610| Corporate Strategy and Policy | 3 Units**
This subject is about the comprehensive plan of action of all kinds of organizations.

**EKC500| Science and Engineering Research Methodology | 3 Units**
This course provides a hands□on course designed to impart to postgraduates the foundational methods and techniques of research in built environment, sciences and engineering context. The students will be practically exposed to the main components of a research framework which are problem definition, research design, data collection, ethical issues in research, report writing and presentation.

**ADC 603| Technology and information management | 3 Units**
This course provides principles, theories, applications, strategies and issues in information system management.

**ADE 619 | Global supply chain management| 3 Units**
This course is meant to provide as the introductory class in full-fledged of supply chain management.

**ADE 621| Quality and productivity management| 3 Units**
Productivity and quality management is mainly concerned with how management can best provide a profitable level of services to customers through effective planning, organizing and controlling of the workers efficiency and effectiveness and quality of the product and services.

**ADE 624| Logistics and distribution management| 3 Units**
This course is meant to provide as the introductory class in full-fledged of logistics and distribution.

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Graduate School of Business USM

# PROGRAM DESCRIPTION

To further enhance postgraduate offerings, Master of Science Degree Programme by coursework mode have also been introduced. In Academic Session 2025/2026, a course work programme known as the Master of Science in Advanced Manufacturing Engineering with Management is established. This programme provides candidates with comprehensive exposure to the latest theoretical and practical aspects of advanced manufacturing systems, industrial automation, and management strategies. It is designed to equip graduates with the knowledge and skills necessary to address real-world industrial challenges and to lead innovation in manufacturing and operations management.

For all information related to postgraduate studies, please go to https://onlineips.usm.my/

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# PROGRAM LEARNING OUTCOMES

| | |
|---|---|
| **PLO 1** | Demonstrate an understanding of theory and knowledge in relation to the functional field of manufacturing engineering and management. |
| **PLO 2** | Provide innovative solutions for manufacturing engineering and management related problems |
| **PLO 3** | Identify and analyze manufacturing engineering and management scenarios. |
| **PLO 4** | Demonstrate a high proficiency in written and oral communication. |
| **PLO 5** | Demonstrate meaningful contribution to team-based activities. |
| **PLO 6** | Demonstrate awareness of Ethics and Professionalism in decision-making. |
| **PLO 7** | Demonstrate the skills necessary for effective lifelong learning and personal development. |
| **PLO 8** | Comprehend manufacturing engineering and management issues from the lens of sustainability. |
| **PLO 9** | Demonstrate Leadership, Autonomy and Responsibility. |
| **PLO 10** | Demonstrate ability to utilize technologies and digital skills in manufacturing engineering and management decision-making. |

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# GENERAL INFORMATION

| | |
|---|---|
| **Awarding Institution** | Universiti Sains Malaysia |
| **Teaching Faculty** | • School of Mechanical Engineering<br>• Graduate School of Business |
| **Programme Name** | Master of Science in Advanced Manufacturing Engineering with Management |
| **Final Award** | Master of Science in Advanced Manufacturing Engineering with Management |
| **Professional or Statutory Body of Accreditation** | Malaysian Qualification Agency (MQA)<br>MQA/PSA 18479 |
| **Language(s) of Instruction** | English |
| **Mode of Study** | Conventional (traditional, online and blended learning) |
| **Study Scheme** | Full Time / Part Time |
| **Study Duration** | |

| | Minimum | Maximum |
|---|---|---|
| Full-time | 1 Year<br>(2 Semesters) | 2 Years<br>(4 Semesters) |
| Part-time | 2 Years<br>(4 Semesters) | 4 Years<br>(8 Semesters) |

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# PROGRAMME STRUCTURE

This programme comprises a combination of programme core courses, university general courses, electives, and a Master Project. All students are required to complete THREE (3) university courses, FOUR (4) core courses, FOUR (4) elective courses, and a Master Project aligned with the selected area of specialization. A minimum enrolment of FIVE (5) students is required for any track or course to be offered. This condition may be adjusted based on coordination between the programme coordinator and students prior to the start of the semester.

| | | |
|---|---|---|
| **University Course** | | |
| EKC500 | 3 unit | Science and Engineering Research Methodology |
| EPP501 | 3 unit | Lean Six Sigma |
| ADC601 | 3 unit | Managing People in The Organization in Digital Age |
| **Core Course** | | |
| EMH501 | 3 unit | Sustainable Energy Resources and Management |
| EPP502 | 3 unit | Operational Management |
| ADC605 | 3 unit | Accounting for Managers |
| ADC610 | 3 unit | Corporate Strategy and Policy |
| **Elective Course** | | |
| EMM501 | 3 unit | Statistical Quality Control for Managers |
| EPP503 | 3 unit | Robotics and Smart Factory |
| EPP504 | 3 unit | Artificial Intelligence and Smart Manufacturing |
| EPP505 | 3 unit | Additive Manufacturing |
| ADC603 | 3 unit | Technology and Information Management |
| ADE619 | 3 unit | Global and Supply Chain Management |
| ADE621 | 3 unit | Productivity and Quality Management |
| ADE624 | 3 unit | Logistics and Distribution Management |
| **Master Project** | | |
| EPD501 | 10 unit | Master Project |

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# COURSES PER SEMESTER
# FULL TIME

**Full time (2 semester, 1 Year)**

| Year 1 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Semester 1** | | | | **Semester 2** | | | |
| **Class** | **Code** | **Course** | **Credit Value** | **Class** | **Code** | **Course** | **Credit Value** |
| Comp | EPP501 | Lean Six Sigma | 3 | Core | EPD501 | Master Project | 10 |
| Core | EMH501 | Sustainable Energy Resources and Management | 3 | Core | EPP502 | Operational Management | 3 |
| Comp | ADC601 | Managing People in The Organization in Digital Age | 3 | Core | ADC605 | Accounting for Managers | 3 |
| Core | ADC610 | Corporate Strategy and Policy | 3 | Elective | EPP503 | Robotics and Smart Factory | 3 |
| Comp | EKC500 | Science and Engineering Research Methodology | 3 | Elective | EPP504 | Artificial Intelligence and Smart Manufacturing | 3 |
| Elective | EMM501 | Statistical Quality Control for Managers | 3 | Elective | EPP505 | Additive Manufacturing | 3 |
| Elective | ADE619 | Global and Supply Chain Management | 3 | Elective | ADC603 | Technology and Information Management | 3 |
| Elective | ADE621 | Productivity and Quality Management | 3 | Elective | ADE624 | Logistics and Distribution Management | 3 |
| **TOTAL CREDIT VALUE** | | **18** | | **TOTAL CREDIT VALUE** | | **25** | |

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# COURSES PER SEMESTER PART TIME

**Part time (4 semester, 2 Year)**

| Year 1 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Semester 1** | | | | **Semester 2** | | | |
| **Class** | **Code** | **Course** | **Credit Value** | **Class** | **Code** | **Course** | **Credit Value** |
| Comp | EPP501 | Lean Six Sigma | 3 | Core | EPP502 | Operational Management | 3 |
| Comp | ADC601 | Managing People in The Organization in Digital Age | 3 | Elective | EPP503 | Robotics and Smart Factory | 3 |
| Comp | EKC500 | Science and Engineering Research Methodology | 3 | Elective | EPP504 | Artificial Intelligence and Smart Manufacturing | 3 |
| | | | | Elective | ADC603 | Technology and Information Management | 3 |
| **TOTAL CREDIT VALUE** | | **9** | | **TOTAL CREDIT VALUE** | | **9** | |
| **Year 2** | | | | | | | |
| **Semester 1** | | | | **Semester 2** | | | |
| **Class** | **Code** | **Course** | **Credit Value** | **Class** | **Code** | **Course** | **Credit Value** |
| Core | EMH501 | Sustainable Energy Resources and Management | 3 | Core | EPD501 | Master Project | 10 |
| Core | ADC610 | Corporate Strategy and Policy | 3 | Core | ADC605 | Accounting for Managers | 3 |
| Elective | EMM501 | Statistical Quality Control for Managers | 3 | Elective | EPP505 | Additive Manufacturing | 3 |
| Elective | ADE619 | Global and Supply Chain Management | 3 | Elective | ADE624 | Logistics and Distribution Management | 3 |
| Elective | ADE621 | Productivity and Quality Management | 3 | | | | |
| **TOTAL CREDIT VALUE** | | **9** | | **TOTAL CREDIT VALUE** | | **16** | |

# SCHEDULE

| Courses from School of Mechanical Engineering | | Courses from Graduate School of Business | |
|---|---|---|---|
| EPP501 Lean Six Sigma | Weekend (either Saturday or Sunday), 8am-5pm | ADC601 Managing People in The Organization in Digital Age | Working day (evening) 7-9pm OR 9-11pm |
| EMH501 Sustainable Energy Resources and Management | | ADC605 Accounting for Managers | |
| EPP502 Operational Management | | ADC610 Corporate Strategy and Policy | |
| EMM501 Statistical Quality Control for Managers | | ADC603 Technology and Information Management | |
| EPP503 Robotics and Smart Factory | | ADE619 Global and Supply Chain Management | |
| EPP504 Artificial Intelligence and Smart Manufacturing | | ADE621 Productivity and Quality Management | |
| EPP505 Additive Manufacturing | | ADE624 Logistics and Distribution Management | |
| EPD501 Master Project | | | |
| EKC500 Science and Engineering Research Methodology | Every Wednesday 2-4pm Class will be recorded | | |

Official schedule will be updated soon

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# TUITION FEE

| Malaysian (MYR) | International (USD) |
|---|---|
| **Registration Fee (one off)** | |
| 330.00 | 225.00 |
| **Personal Bond (one off)** | |
| NIL | 1000.00 |
| **Convocation Fee (one off)** | |
| 200.00 | 50.00 |
| **Credit Fee** | |
| 625 x 43 unit = 26875.00 | 220 x 43 unit = 9460.00 |
| **Total** | |
| **MYR 27,405.00** | **USD 10,735.00** |


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# APPLICATION

Apply Now!

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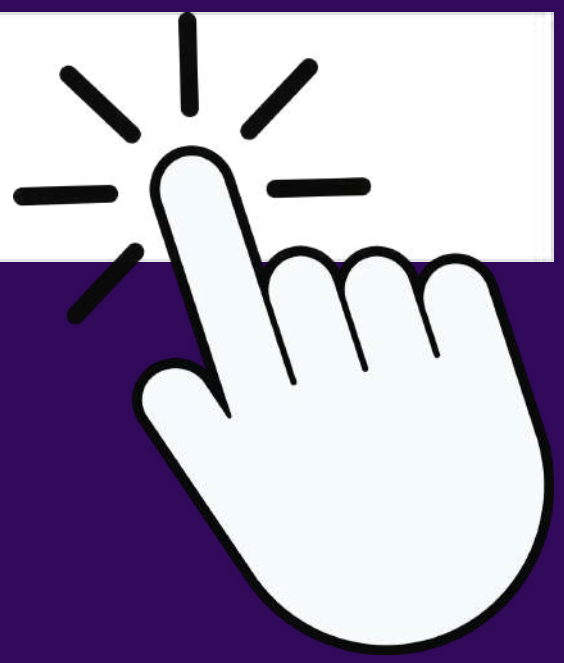

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# CONTACT PERSON

For further information, please contact:


**PROGRAMME COORDINATOR**

**Ir. Dr. Nur Amalina Binti Muhammad**

School of Mechanical Engineering, Engineering Campus,
Universiti Sains Malaysia
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Tel: 604 -5996365

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Website: https://mechanical.eng.usm.my


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