



UNIVERSITI
TEKNOLOGI
MARA

Master of Science in Mechanical Eng

Faculty of Mechanical Engineering

UNIVERSITI TEKNOLOGI MARA

- Programme Code: EM703
- Master of science in Mechanical Engineering (Mixed Mode)
- Mode of Study: Full Time / Part time
- Accredited in May 2019





UNIVERSITI
TEKNOLOGI
MARA

Master of Science in Mechanical Eng
Faculty of Mechanical Engineering
UNIVERSITI TEKNOLOGI MARA

INTRODUCTION

EM703 is a mixed mode programme, whereby the assessment depends upon both the coursework and dissertation (research work). The programme provides outgoing bachelor students opportunity for specialization in various fields at master level. It also provides a greater opportunity for engineers to enhance their knowledge for career advancement. The programme is a mixed mode programme which combines both **taught course** and **research** (17 credits of taught courses and 27 hours of supervised master research project).



COURSES OFFERED

CORE COURSES

- 1) Research Methodology
- 2) Modeling and Simulation of Engineering Systems
- 3) Advanced Numerical Method
- 4) Project Management

FIELD OF SPECIALISATION AND ELECTIVE COURSES

Applied Mechanics		Advanced Manufacturing		Mechatronics	
Code	Course	Code	Course	Code	Course
MEC711	Advance Mechanics of Materials	MEM778	Advanced Industrial Management	MEC781	Advanced Robotics
MEC713	Mechanics of Composite Materials	MEM779	Quality and Reliability Engineering	MEC782	Advanced Control Systems
MEC712	Fracture Mechanics	MEM762	Computer Integrated Manufacturing	MEC783	Microcontroller Applications
MEC722	Advanced Mechanical Vibration	MEM765	Robotics and Automation	MEC784	Mechatronic System Design
MEC730	Finite Element Method	MEM768	Micro-Nano Process Technology	MEC785	Machine Learning
MEC729	Engineering Acoustics	MEM734	Occupational Ergonomics	MEC786	Embedded Microprocessors and Real-Time Systems
MEC714	Shocks and Impact Engineering	MEM732	Product Design and Innovation		
		MEM767	Manufacturing Technology and Simulation		
Mechanical Design		Thermo Fluid Systems		Bio Mechanics	
Code	Course	Code	Course	Code	Course
MEC700	Mechanical Engineering Design and Innovation	MEC755	Renewable and Sustainable Engineering Technology	MEC791	Fundamental of Biomechanics
MEC737	CAD, CAE & CAM	MEC753	HVAC & Refrigeration Systems	MEC792	Advanced Bio-fluid Mechanics
MEC730	Finite Element Method	MEC756	Combustion Systems and Emissions	MEC793	Biomedical Instrumentation
MEC722	Advanced Mechanical Vibration	MEC745	Pipe Flows	MEC794	Advanced Design Technique
MEC781	Material Selection and Failure Analysis	MEC742	Lubrication of Machine Elements	MEC700	Mechanical Engineering Design and Innovation
MEC779	Quality and Reliability Engineering	MEC751	Mechanics and Thermodynamics of Propulsion	MEC711	Advanced Mechanics of Materials
MEC735	Design Optimization	MEC741	Computational Fluid Dynamics		

Note : All courses are three credit hours.



ENTRY REQUIREMENT

- a) A bachelor degree in Mechanical Engineering with minimum CGPA of 2.75 out of 4 (or equivalent, e.g. Electrical, Chemical, Civil, Industrial, Aerospace and Automotive Engineering, Applied Science and Computer Science) from UiTM or any other institution of higher learning recognized by UiTM; or
- b) b) A lower CGPA with working experience in the relevant field.

Mode and Duration Full-time: 3 – 6 semesters Part-time: 4 – 8 semesters



UNIVERSITI
TEKNOLOGI
MARA

Master of Science in Mechanical Eng
Faculty of Mechanical Engineering
UNIVERSITI TEKNOLOGI MARA

ONLINE APPLICATION at: <https://ipsis.uitm.edu.my/v2/>

ESTIMATED COURSE FEES

RM 12,628.00 (based on minimum duration of study for local full-time student)

*fees are subject to revision

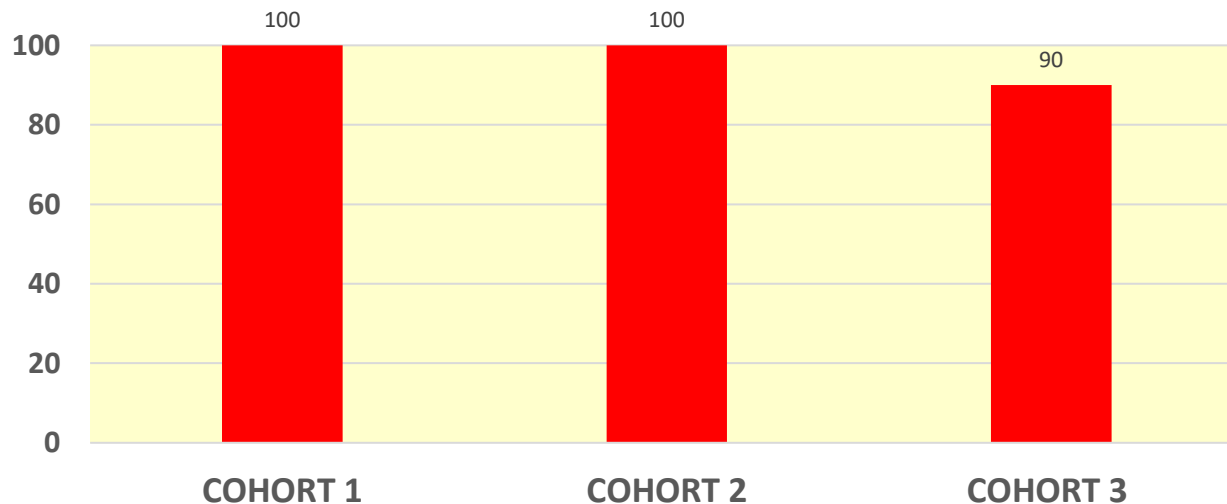


UNIVERSITI
TEKNOLOGI
MARA

Master of Science in Mechanical Eng
Faculty of Mechanical Engineering
UNIVERSITI TEKNOLOGI MARA

GRADUATE ON TIME TREND FROM 1st COHORT UP TO DATE

GRADUATE ON TIME STATUS EM703



**FIRST COHORT AND SECOND COHORT ACHIEVED 100% GRADUATE ON TIME, WHILE FOR
THIRD COHORT ACHIEVED 90% GOT**



UNIVERSITI
TEKNOLOGI
MARA

Master of Science in Mechanical Eng
Faculty of Mechanical Engineering
UNIVERSITI TEKNOLOGI MARA

FOR MORE INFORMATION PLEASE CONTACT:

TS DR MOHD HAFIZ MOHD NOH

COORDINATOR PROGRAMME EM703
(MASTERS OF SCIENCE IN MECHANICAL ENG)

FACULTY OF MECHANICAL ENGINEERING,
UITM SHAH ALAM, SELANGOR.

Email: hafiz669@uitm.edu.my

Contact number: 03 55211822/013 8682506

Website: <https://fkm.uitm.edu.my/v3/>

