

**UR6525001**

**Bachelor of Technology in Automotive with Honours**

**Programme Educational Objective (PEO)**

- PEO 1** To produce automotive technologists that perform automotive related work including diagnostic specialist and retrofit specialist.
- PEO 2** To produce technopreneurs in automotive related technology.
- PEO 3** To produce relevant respected referred professionals in automotive technology.

**Programme Outcomes (PO)**

PO1	Knowledge: Apply knowledge of technology fundamentals to broadly-defined procedures, processes, systems, and methodologies in the field of automotive study.
PO2	Practical Skills/ Modern Tools Usage: Able to suggest and apply latest tools and techniques to solve broadly-defined problems.
PO3	Analytical, Critical Thinking and Scientific Approach: Demonstrate strong analytical and critical thinking skills to solve broadly-defined problems in automotive study.
PO4	Communication Skills: Able to communicate and articulate effectively in both verbal and written among technologist communities and society at large.

PO5	Social and responsibility in society and Technologist community: Demonstrate understanding of the societal related issues and the consequent responsibilities relevant to broadly-defined technology practices
PO6	Life Long Learning and Information Management: Recognize the needs for professional development and to engage independent lifelong learning in specialist technologists.
PO7	Entrepreneurs and Management skills: Demonstrate an awareness of management and technopreneurship practices in real perspective.
PO8	Ethics and Professionalism: Demonstrate professionalism and social and ethical consideration.
PO9	Team work and Leadership: Demonstrate leadership quality, mentoring and work effectively in diverse teams.

### Curriculum Structure

#### UR6525001 BACHELOR OF TECHNOLOGY IN AUTOMOTIVE WITH HONOURS 2022/2023

YEAR	FIRST		SECOND		THIRD			FOURTH
SEMESTER	1	2	3	4	5	6	BREAK	7
DISCIPLINE CORE & ELECTIVE COURSES (104 CREDITS)	MMT11004 Automotive Industry & Technology	MMT11303 Shop floor Supervision	MMT21003 Project Management	MMT21204 Powertrain System Service	MMT31003 Automotive Legislation	MMT31306 Quality Management	MMT41506 FYP 2	MMT49912 Industrial Training
	MMT11103 Automotive Drafting	MMT11404 Automotive Component Design & Assembly	MMT21104 Autotronic System Service	MMT21304 Technopreneur Project 1	MMT31104 Technopreneur Project 2	MMT31403 Risk Assessment		
	MMT11204 Automotive Workshop Practice	MMT11504 Automotive Component Fabrication	MMTXXX04 Elective 1	MMTXXX04 Elective III	MMTXXX04 Elective V	MMT31504 FYP 1		
			MMTXXX04 Elective II	MMTXXX04 Elective IV	MMTXXX04 Elective VI	MMT31603 Asset & Inventory Management		

					MMT31202 Vehicle Marketing			
<b>UNIVERSITY REQUIREMENT COURSES (18 CREDITS)</b>	SMZ1XX01 Co-Curriculum I	SMZ2XX01 Co-Curriculum II	SMB1XX02 Third Language <sup>[1]</sup>	SMU22402 Engineering Entrepreneurship	SMU13102 Appreciation of Ethics and Civilizations			
	SMB41002 University Malay Language	SMU13002 Philosophy and Current Issues	SMB31202 English for Technical Communication					
	SMU12202 Communication Skills and Technology	SMB20102 English for General Communication <sup>[2]</sup>						
	SMB10102 Preparatory English <sup>[1]</sup>							
<b>TOTAL CREDITS (122 CREDITS)</b>	<b>16</b>	<b>16</b>	<b>19</b>	<b>18</b>	<b>19</b>	<b>16</b>	<b>6</b>	<b>12</b>

**Elective I** : MMT21404 Commercial Vehicle Servicing / MMT21504 Surface Design  
**Elective II** : MMT21604 Drivetrain Maintenance / MMT21704 Automotive Modelling  
**Elective III** : MMT21804 Vehicle Performance Analysis / MMT21904 Exterior Design  
**Elective IV** : MMT22004 Vehicle Fault Diagnosis / MMT22104 Component Remanufacturing  
**Elective V** : MMT31704 Hybrid Servicing / MMT31804 Interior Design  
**Elective VI** : MMT31904 Electric Vehicle Service / MMT32004 Painting

- [1] Compulsory to students with MUET 2.5 and below (local students) or TOEFL 4.5/IELTS 4.0 and below (international students). SMB10102 Preparatory English is an Audit course.
- [2] Exemption to students with MUET 4.0 and above (local students) or TOEFL 8.0/IELTS 5.5 and above (international students) but need to replace the course by registering a two credits Optional Course.
- [3] SMB1XX02: Jerman, Mandarin or Japan