

**FACULTY OF MECHANICAL ENGINEERING TECHNOLOGY, UNIVERSITI MALAYSIA PERLIS (UniMAP)**  
**MSc. in MECHANICAL ENGINEERING (Coursework)**

STUDY MODE	SEM I	CREDIT	SEM II	CREDIT	SEM III	CREDIT	SEM IV	CREDIT
<b>FULL TIME</b>	MSJ15003 Advanced Numerical Methods	3	MSJ15203 Advanced Fluid Mechanics	3				
	MSJ15103 Advanced Mechanics of Materials	3	MSJ15303 Advanced Mechanical Design	3				
	MSJ19003 Research Methodology	3	MSJ19103 Engineering Management	3				
	MSJ15504 Research Project I	4	MSJ15506 Research Project II	6				
	Elective I	3	Elective III	3				
	Elective II	3	Elective IV	3				
	<b>TOTAL CREDIT</b>	<b>19</b>		<b>21</b>				
<b>PART TIME</b>	MSJ15003 Advanced Numerical Methods	3	MSJ15203 Advanced Fluid Mechanics	3	MSJ15504 Research Project I	4	MSJ15506 Research Project II	6
	MSJ15103 Advanced Mechanics of Materials	3	MSJ15303 Advanced Mechanical Design	3	Elective I	3	Elective III	3
	MSJ19003 Research Methodology	3	MSJ19103 Engineering Management	3	Elective II	3	Elective IV	3
		<b>TOTAL CREDIT</b>	<b>9</b>		<b>9</b>		<b>10</b>	

Core:

MSJ19003 Research Methodology  
MSJ19103 Engineering Management  
MSJ15003 Advanced Numerical Methods  
MSJ15103 Advanced Mechanics of Materials  
MSJ15203 Advanced Fluid Mechanics  
MSJ15303 Advanced Mechanical Design  
MSJ15504 Research Project I  
MSJ15506 Research Project II

Elective:

MSJ16003 Engineering Mechanics of Composites  
MSJ16103 Structural Dynamics  
MSJ16203 Noise and Vibration Control  
MSJ16303 Computational Fracture Mechanics  
MSJ17003 Renewable Energy  
MSJ17103 Computational Fluid Dynamics  
MSJ17203 Energy Management and Conservation

MSJ17303 Air Conditioning and Refrigeration  
MSJ18003 Direct Digital Manufacturing  
MSJ18103 Design Optimisation  
MSJ18203 Human Factor and Ergonomic  
MSJ18303 Shape and Topology Optimisation

**TOTAL CREDIT FOR GRADUATION: 40 CREDITS**