

UR6521005

Bachelor of Technology in Welding with Honours

Programme Educational Objective (PEO)

- PEO 1** To produce welding technologist that perform related welding work including maintenance, fabricator, design, safety advisor and production manager.
- PEO 2** To produce technopreneurs in related welding technology.
- PEO 3** To produce relevant respected referred professionals in welding technology

Programme Outcomes (PO)

PO1	Knowledge: Apply knowledge of technology fundamentals to broadly-defined procedures processes, systems and methodologies in welding technology .
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 welding technology.

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 UR6521005 Bachelor of Technology in Welding with Honours								
YEAR	FIRST		SECOND		THIRD			FOURTH
SEMESTER	1	2	3	4	5	6	BREAK	7
	MMT13004 CAD and Welding Graphic	MMT13303 Product Design in Welding	MMT23004 Material Behaviour in Welding	MMT23604 Computer Aided Analysis	MMT33004 Welding Quality Assurance	MMT31504 Final Year Project 1	MMT41506 Final Year Project 2	MMT49912 Industrial Training

DISCIPLINE CORE & ELECTIVE COURSES (104 CREDITS)	MMT13104 Safety in Welding	MMT13404 Welding Documentation	MMT23104 Safety Management	MMT23704 Imperfection in Welding and Testing	MMT33104 Economic of Welding and Procurement	MMT33403 Cyber Physical System in Welding		
	MMT13204 Metal Fabrication Process	MMT13504 Non-Conventional Welding Process	MMT23204 Welding Design Analysis	MMT23804 Welding Electrical Equipment	MMT33204 Non -Destructive Test	MMT33504 Reclamation Workshop		
			ELECTIVE*	MMT23904 Technopreneur Project 1	MMT33304 Technopreneur Project 2	MMT33604 Managing Production Supervisory		
UNIVERSITY REQUIREMENT COURSES (18 CREDITS)	SMZ1XX01 Co-Curriculum I	SMZ2XX01 Co-Curriculum II	SMB1XX02: Third Language	SMB20102 English Technical for Communication	SMU13102 Appreciation of Ethics and Civilization			
	SMB41002 University Malay Language	SMU13002 Philosophy and Current Issues						
	SMU12202 Skill and Technology and communication	SMB20102 English For General Communication						
		SMU22402 Engineering Entrepreneurship						
TOTAL CREDITS (122 CREDITS)	16	16	19	18	19	16	6	12

ELECTIVE* : MMT23304 Welding Technology / MMT23404 NDT Professional / MMT23504 Welding Inspection

[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