

MSc

PEO 1	Capable of integrating concepts, theories, methods, and current knowledge to conduct quality research that benefits both the local and global community
PEO 2	Graduates who are skilled in analyzing problems critically and accurately and capable of exploring creative and innovative solutions through various modern digital platforms
PEO 3	Practicing professional, sustainable, and ethical values in fulfilling responsibilities to employers, society, and the nation
PEO 4	Possess effective and confident communication skills in conveying knowledge orally and in writing and be able to apply entrepreneurial mindsets and skills in research work.
PEO 5	Capable of exploring new knowledge and cross-disciplinary collaboration that impacts the socio-economic development and sustainability of society and the nation.

USM uses 11 programme learning outcomes (PLO) (updated 2024) across school to describe the general and specific knowledge, skills, attitudes, and abilities that students should demonstrate upon graduation according to the sequence of MQF (2024) learning domains. Therefore, the PLO are set as follows:

- PLO 1:** Demonstrate in-depth and frontier knowledge in the related field.
- PLO 2:** Apply knowledge critically and integratively to manage and solve complex problems using various techniques, tools or skills for the purpose of producing new ideas or innovative solutions.
- PLO 3:** Demonstrate effective and innovative research skills by utilising specialised research methods and the latest investigative techniques in the relevant field with minimal supervision.
- PLO 4:** Demonstrate the ability to collaborate with various parties in carrying out the research.

- PLO 5:** Present knowledge, skills, ideas, and research findings clearly using appropriate methods to various parties.
- PLO 6:** Utilise appropriate digital technology and software to analyze and enhance research findings.
- PLO 7:** Use appropriate methods to analyse and evaluate data for the purpose of solving problems.
- PLO 8:** Demonstrate leadership qualities and be responsible when collaborating with others in managing research.
- PLO 9:** Demonstrate commitment to lifelong learning and personal development in the relevant field.
- PLO 10:** Apply entrepreneurial skills to identify opportunities and implement projects related to the field of research.
- PLO 11:** Comply with safety rules and instructions, and demonstrate principles, professionalism, ethics, and sustainable practices in conducting research.

Matrix of programme learning outcomes against the programme educational objectives

Programme Learning Outcomes (PLO)	Programme Educational Objectives (PEO)				
	PEO1	PEO2	PEO3	PEO4	PEO 5
PLO 1	/				
PLO 2	/				
PLO 3		/			
PLO 4					/
PLO 5				/	
PLO 6		/			
PLO 7		/			
PLO 8			/		
PLO 9					/
PLO10				/	
PLO11			/		