

Programme Name

Master of Engineering Technology (by Research)

About the Programme

The Master of Engineering Technology degrees are research degrees by thesis under the supervision of experienced members of academic staff or a supervisory panel. A panel is made up of a graduate staff and experts from the University or other institutions. Areas of research include **Civil Engineering Technology, Chemical & Biotechnology Engineering Technology, Electrical & Electronics Engineering Technology, Mechanical & Manufacturing Engineering Technology, Railway & Transportation Engineering Technology and Occupational Safety and Health**

Programme Educational Objectives (PEO)

To produce a Masters graduate who:

1. Expert and competent in providing solutions and contribute to the advancement of knowledge in Engineering Technology field.
2. Demonstrates excellent leadership through effective communication, good social skills and practice continuous self-development.
3. Performs responsibility in professional and ethical manners for the betterment of organisation, community, society and nation.

Programme Learning Outcomes (PLO)

These are the PLOs for Master of Engineering Technology (by Research):

1. Demonstrate mastery of knowledge and independence in undertaking analytical and critical evaluation, and synthesis of information, specialized concepts, theories, methods and practice in Engineering Technology. (Knowledge and Understanding, KU)
2. Apply knowledge critically and integratively to manage and resolve complex issues in Engineering Technology through investigations and research using advance techniques, tools or skills for decision making and producing innovative solutions or practice. (Cognitive Skills, C)
3. Conduct standard and specialized research methods and apply practical skills, tools or investigative techniques for new research and applications in Engineering Technology. (Practical Skills, PS)
4. Work collaboratively with different people in learning and working communities or networks. (Interpersonal Skills, IS)
5. Communicate effectively to convey the knowledge, skills, ideas, critique and conclusion using appropriate methods to peers, experts, and non-experts. (Communication Skills, CS)
6. Competently use a wide range of suitable digital technologies and appropriate software to enhance study and research in Engineering Technology. (Digital Skills, DS)
7. Apply mathematical and other quantitative and/or qualitative tools to analyze and evaluate numerical and graphical data in Engineering Technology. (Numeracy Skill, NS)
8. Demonstrate significant autonomy, independence, leadership, and interpersonal skills in planning and managing task. (Leadership, Autonomy and Responsibility, LAR)
9. Demonstrate self-advancement through continuous academic and professional development for life-long learning. (Personal Skill, PES)
10. Recognise the importance of entrepreneurship in Engineering Technology and its related discipline. (Entrepreneurial Skills, ES)
11. Performs responsibility with good ethical judgments and decisions by adhering to legal code, ethics and professional practice. (Ethics and Professionalism, EP)

Curriculum Structure

STUDY PLAN MASTER OF ENGINEERING TECHNOLOGY (BY RESEARCH) FACULTY OF ENGINEERING TECHNOLOGY

Year 1

Se m	Course Code	Course Name	Credi t	Se m	Course Code	Course Name	Credi t
1	KNT10003	Research Methodology	3 (HW)	2	KNT10040	Research Progress (Evaluation 2)	0
	KNT10040	Research Proposal (Evaluation 1)	0		KNT10040	e-LKP	0
	KNT10040	e-LKP	0				
	Total		0		Total		0

Year 2

Se m	Course Code	Course Name	Credi t	Se m	Course Code	Course Name	Credi t
3	KNT10040	Pre-Viva	0	4	KNT10040	Viva-Voce	0
	KNT10040	e-LKP	0		KNT10040	e-LKP	0
	Total		0		Total		0