

Bachelor of Science (Mathematics Technology) with Honours

A. UNIVERSITY

1. UTHM Vision

To be a global technical university in sustainable technology and transportation.

2. UTHM Mission

Provide technical solution for industry and community based on tauhidic paradigm.

3. UTHM Education Philosophy

UTHM education and training, founded on the tauhidic paradigm, strive to produce competent, professional and entrepreneurial graduates, driven by advanced technologies for global development.

B. PROGRAMME

1. Programme Aims

To produce graduates who are competent and implement tauhidic approach in developing human attitude through training and a holistic multidisciplinary program to meet current market needs and be able to compete globally. This effort is realized with the energy deployment and the optimization of expertise.

2. Programme Educational Objectives (PEO)

The programme educational objectives for Bachelor of Science (Mathematics Technology) with Honours programme (BWA) are to produce graduates who are able to:

PEO	Description	Key Performance Index (KPI)
PEO 1	Competent and innovative in providing sustainable solutions to fulfill the needs of organisation. [PLO 1, PLO 2, PLO 3, PLO 6, PLO 7]	70% working in industries 5% participated in product development
PEO 2	Continuously self-updating and contributing knowledge to the betterment of community, society and nation. [PLO 1, PLO 5, PLO 9, PLO 10, PLO 11]	10% participated in conference / journal publication / research activity etc. 15% has involved in community service

		10% has involved in entrepreneurial activity
PEO 3	Key members in the organisation practising ethics and professionalism. [PLO 4, PLO 8, PLO 11]	15% become a leader in the organisation 60% involved as team member in a project

3. Programme Learning Outcomes (PLO)

The programme learning outcomes for B Bachelor of Science (Mathematics Technology) with Honours programme (BWA) are to produce graduates who are able to:

PLO 1	Knowledge and Understanding	Demonstrate comprehensive theoretical and technical knowledge related to Mathematics Technology.
PLO 2	Cognitive Skills	Apply critical, analytical and evaluation skills to solve problems with creative and innovative solution(s).
PLO 3	Practical Skills	Perform various practical and technical skills in the field of Mathematics Technology.
PLO 4	Interpersonal Skills	Exhibit good relationship, interact with others and work effectively in fulfilling individual and group tasks when tackling issues related to mathematics.
PLO 5	Communication Skills	Communicate and deliver information effectively in both written and verbal forms.
PLO 6	Digital Skills	Use a broad range of information and media technologies to support the learning process.
PLO 7	Numerical Skills	Capable to access, use and interpret mathematical informations and ideas, numerically and graphically in order to solve mathematical problems in various applications.
PLO 8	Leadership, Autonomy and Responsibility	Demonstrate decision making professionally, autonomously and responsibly in managerial capacities.
PLO 9	Personal Skills	Engage in continuous enhancement of knowledge in the field of mathematics and related discipline.
PLO 10	Entrepreneur	Initiate a plan of self-driven entrepreneurship.
PLO 11	Ethics and Professionalism	Make decision ethically, and act professionally within various social and professional environments.