DOCTOR OF PHILOSOPHY IN SCIENCE

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 Educational Objectives (PEO)

The programme educational objectives for Doctor of Philosophy in Science - PWZ are to produce graduates who are able to:

PEO	Description	Key Performance Index (KPI)
PEO 1	Expert and competent in implementing sustainable solutions to fulfill the needs of an organization. [PLO 1, PLO 2, PLO 3, PLO 6, PLO 7]	At least 70% work in organization / further in research
PEO 2	Continuously encouraging excellent strategic thinking for the betterment of community, society and nation. [PLO 1, PLO 5, PLO 9, PLO 10, PLO 11]	At least 15% involve in research activities / consultation needs
PEO 3	Key members in the organisation with high adaptation to the professionalism and ethics. [PLO 4, PLO 8, PLO 11]	At least 50% manage and monitor main project At least 10% involve in professional bodies or obtained professional certificates

2. Programme Learning Outcomes (PLO)

The programme learning outcomes for Doctor of Philosophy in Science - PWZ are to produce graduates who are able to:

PLO 1	Knowledge and Understanding	Synthesize expertise in the field of science and technology.
PLO 2	Cognitive Skills	Create scientific solutions to related problems in the field of science and technology through creativity, critical thinking and systematic analytical skills.
PLO 3	Practical Skills	Combine specialized practical and technical skills in solving problem through various situations and related to science and technology.
PLO 4	Interpersonal Skills	Perform project effectively as a team to achieve specific objectives.
PLO 5	Communication Skills	Provide information, communicate effectively and link ideas in both written and verbal forms related to science and technology.
PLO 6	Digital Skills	Adopt various technology applications via digital technology application in solving problems related to science and technology and working activities.
PLO 7	Numerical Skills	Organise and analyse data applying numerical and visualisation skill to support decision making in various field of science and technology.
PLO 8	Leadership, Autonomy and Responsibility	Display good leadership characteristics and adapt responsibility throughout learning, working activities and collaboration among researchers and stakeholders.
PLO 9	Personal Skills	Integrate lifelong learning and information management to enhance knowledge and personal skills related to science and technology.
PLO 10	Entrepreneur	Initiate the entrepreneur interest, concepts and processes to undertake an entrepreneurial project or decision making.
PLO 11	Ethics and Professionalism	Conduct independently research with minimum supervision subject to legislation, ethics and code of professional practice.