



UTM
UNIVERSITI TEKNOLOGI MALAYSIA



**MODE OF STUDY:
RESEARCH FULL-TIME**
1-2 YEARS

MASTER OF PHILOSOPHY (HUMAN-CENTERED TECHNOLOGY)

Innovating Technology for Human Wellbeing, Performance, and Quality of Life

Program will be offered by SPS, UTM

Interdisciplinary

Research project beyond a single discipline



Human-
technology
interaction



Human-
machine
interaction



Digital health &
health
informatics



Human-centered
artificial
intelligence



Biomedical
technology &
innovation



Assistive &
rehabilitation
technologies



Human
performance &
sport technology



Occupational
safety, health &
well-being



Other
related
field

The rapid advancement of digital technologies, artificial intelligence, sustainability initiatives, and Industry 5.0 has created growing demand for professionals equipped with interdisciplinary knowledge and advanced problem-solving skills. These technologies must be developed with a strong focus on human needs, capabilities, and wellbeing. The Master of Philosophy (Human-Centered Technology) provides an interdisciplinary research platform to develop innovative solutions that enhance safety, performance, and quality of life in a technology-driven world.

Curriculum Structure

Research full-time; Research methodology; Elective course

What Makes This Program Unique

1

Interdisciplinary research spanning across human and technology.

2

Human-centered approach for technology design and innovation.

3

Focus on real-world societal and industry challenges.

4

Opportunities for collaboration with industries and government agencies.

5

Supports national digital transformation and human-centered innovation agendas.

6

Research-driven learning under expert supervision.

For more inquiry: ihumen@utm.my

Your feedback will help us design a Program that meets research, industry, and societal needs.

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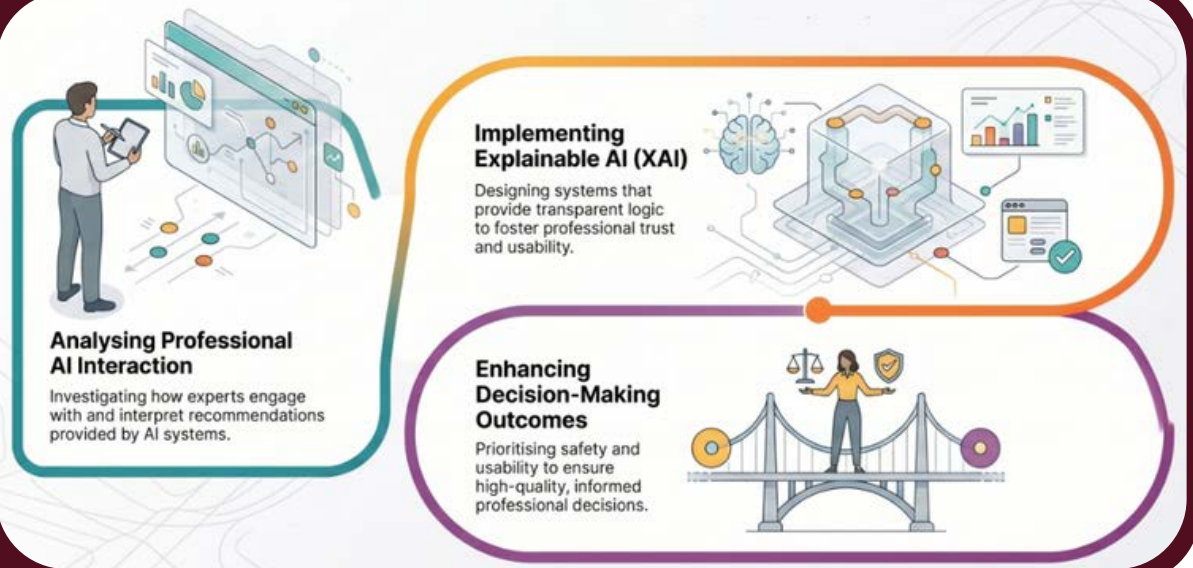


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Example Research Project 1:

Investigating how professional users interact with AI-generated recommendations and designing explainable AI systems that improve trust, usability, safety, and decision-making.



Biomechanical & Clinical Analysis

Assessing the physical integrity of the implant and its medical impact on the patient.

Optimized Implant Performance

Ensuring the device meets rigorous standards for durability and functional reliability.



User-Experience Perspectives

Capturing patient feedback to understand how the implant feels and functions in daily life.

Enhanced Long-Term Quality of Life

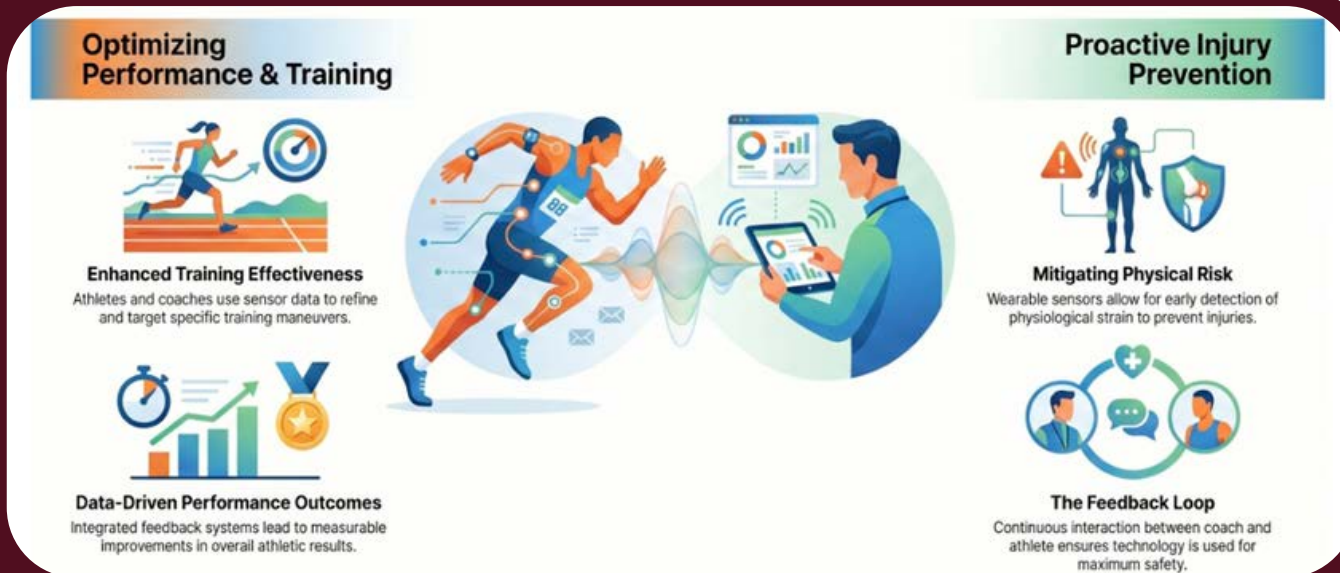
Focusing on comfort to ensure patients maintain a high standard of living post-surgery.

Example Research Project 2:

Evaluating patient-implant interactions through biomechanical, clinical, and user-experience perspectives to optimize implant performance, comfort, and long-term quality of life.

Example Research Project 3:

Examining how athletes and coaches interact with wearable sensors and feedback systems to improve training effectiveness, performance outcomes, and injury prevention.



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