FACULTY OF APPLIED SCIENCES

DOCTOR OF PHILOSOPHY IN COMPUTER APPLIED TECHNOLOGY

LEARNING MODULE OUTLINE

Academic Year	2025/2026	Semester	2
Module Code	PETI8299		
Learning Module	Thesis		
Pre-requisite(s)	Nil		
Medium of Instruction	English		
Credits	21	Contact Hours	45
Instructor	See supervisor list	Email	See supervisor list
Office	See supervisor list	Office Phone	See supervisor list

MODULE DESCRIPTION

The doctoral thesis requires students, by tackling research problems over diverse educational settings, to significantly contribute to the expansion of knowledge in the field of educational technologies and produce a coherent body of work that is of scholarly value and worthy of publication. Under the guidance of supervisors, the work must be original which reviews the relevant literature in a comprehensive manner, demonstrates the mastery and makes significant contribution to a body of knowledge in the field with strong analytical skills. Students are responsible for ensuring that the thesis is presented in a clear, accessible and consistent format. Good academic writing skills, project management skills, oral presentation skills and positive relationship with supervisors and other senior researchers are essential to the successful completion of the thesis.

MODULE INTENDED LEARNING OUTCOMES (ILOS)

On completion of this learning module, students will be able to:

M1.	create new knowledge or originality in the application of knowledge in educational technologies and innovation (AHEP4-M1, AHEP4-M5);
M2.	research on an advanced and contemporary educational technology - related topics (AHEP4-M3);
M3.	critically assess and analyse an advanced issue in educational technology, upon which the mastery of a body of knowledge for a defined scholarly field is demonstrated (AHEP4-M2, AHEP4-M4);
M4.	plan, propose, execute, and report scholarly research project (AHEP4-M4);
M5.	publish and present orally research papers (AHEP4-M7, AHEP4-M17).

These ILOs aims to enable students to attain the following Programme Intended Learning Outcomes (PILOs):

PILOs		M1	M2	M3	M4	M5
P1.	Understand methodologies in conducting research in the field of EdTech		✓	✓	✓	
P2.	Understand knowledge and in-depth understanding of a wide range of learning technologies	✓	✓	✓	✓	
P3.	Acquire essential knowledge and hands-on experience of analysis, assessment and solutions of EdTech related issues		✓	✓	✓	
P4.	Acquire essential knowledge and application of EdTech-related methodologies in both online and offline learning environments	✓		✓	✓	
P5.	Initiate original research in EdTech related fields, both individually and collaboratively in a team					
P6.	Plan, design, execute and manage a scholarly research project		✓			
P7.	Critically evaluate an advanced issue in EdTech related fields	✓	✓	✓	✓	
P8.	Communicate research findings, both orally to diverse audiences and in writing through publishing research papers of scholarly values				✓	✓
P9.	Gather and disseminate knowledge at the postgraduate level and beyond	✓		✓		
P10.	Demonstrate advanced knowledge, competence and research capability in learning technologies and innovation	✓	✓	✓		✓
P11.	Illustrate a global vision on knowledge advancement and dissemination	✓	✓	✓	✓	
P12.	To demonstrate professional integrity and the spirit of challenge		✓	✓	✓	✓
P13.	To advocate professionalism in workplaces and the society at-large		✓	✓		✓
P14.	To communicate professionally and effectively both in speaking and in writing				✓	✓

MODULE SCHEDULE, COVERAGE AND STUDY LOAD

TEACHING AND LEARNING ACTIVITIES

Each student is assigned a project supervisor and/or co-supervisor(s), who observe(s) and advice(s) him/her in the various activities of research, based on the PhD Handbook. Students are advised to read the handbook carefully for details of this course.

ATTENDANCE

Attendance requirements are governed by the Academic Regulations Governing Doctoral Degree Programmes of the Macao Polytechnic University. Students who do not meet the attendance requirements for the learning module shall be awarded an 'F' grade.

ASSESSMENT

In this learning module, students are required to complete the following assessment activities:

1. Each student is required to submit the semiannual report every 6 months.
2. In the 18th-24th month, each student needs to complete the doctoral thesis proposal.

3. Implementation of performance requirement and monitoring of students: All students must be compliant with the requirements specified by: 1. Macao Polytechnic University; 2. Faculty of Applied Sciences, Macao Polytechnic University; 3. Doctoral Thesis Supervisor(s)'s specific academic requirements

REQUIRED READINGS

There is no required text for this module

REFERENCES

There is no required text for this module. References are suggested by Doctoral Thesis Supervisor(s).

STUDENT FEEDBACK

At the end of every semester, students are invited to provide feedback on the learning module and the teaching arrangement through questionnaires. Your feedback is valuable for instructors to enhance the module and its delivery for future students. The instructor and programme coordinators will consider all feedback and respond with actions formally in the annual programme review.

ACADEMIC INTEGRITY

The Macao Polytechnic University requires students to have full commitment to academic integrity when engaging in research and academic activities. Violations of academic integrity, which include but are not limited to plagiarism, collusion, fabrication or falsification, repeated use of assignments and cheating in examinations, are considered as serious academic offenses and may lead to disciplinary actions. Students should read the relevant regulations and guidelines in the Student Handbook which is distributed upon the admission into the University, a copy of which can also be found at www.mpu.edu.mo/student_handbook/.

SUPERVISOR LIST

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