

Macao Polytechnic Institute

School of Applied Sciences

Master of Science in Big Data and Internet of Things

Module Outline

Academic Year 2021 / 2022 Semester 1&2

Learning Module	Dissertation		Class Code	COMP6299	
Pre-requisite(s)	Nil				
Medium of Instruction	English		Credit	12	
Lecture Hours	0 hrs	Lab/Practice Hours	90 hrs	Total Hours	90 hrs
Instructor	Chan-Tong Lam, Ben Ng, Jacky Tang, Rita Tse, Eddie Law, Ke Wei, Philip Lei, Liu Yue, Luo Wuman, Yang Xu		E-mail	{ctlam, bng, sktang, ritatse, eddielaw, wke, philiplei, yue.liu, luowuman, xuyang }@ipm.edu.mo	
Office	Rm# M537, A313, A202, M512, M541, Main Campus		Telephone	8599-3342, 8599-6431, 8599-6491, 8599-3280, 8599-3287	

Description

Students are required to apply the techniques and technologies which they have learned in a significant advanced research project. Under the supervision of an advisor, the students shall focus on a contemporary research topic and make use of the leading-edge techniques to investigate or produce new research findings. Upon completion, the dissertation is to be submitted and evaluated using the standard criteria for scholarly work.

Learning Outcomes

After completing the learning module, students will be able to:

1. Acquire research and problem solving skills; (EA1fl, EA3fl)
2. Review and critique research literature in information technologies; (EA2fl)
3. Evaluate and contrast advanced information technologies and practices; (EA2fl)

4. Determine the research methodology appropriate to the research goals and relevant contexts; (D2fl, ET1fl, ET3fl, EP4fl, ET6fl)
5. Apply and integrate advanced technologies to produce new solutions for complex problems; (EA1fl, EA3fl, D1fl, D3fl, ET4fl)
6. Communicate technical knowledge orally; (EP2fl, EP3fl)
7. Write advanced technical report. (EP2fl, EP3fl)

Teaching Method

Each student carries out the dissertation project under a supervisor (and an optional co-supervisor), who observes and advises him/her in the various activities of project development and / or research. Students are advised to read the *Dissertation handbook* carefully for details.

Attendance

Attendance requirements are governed by the “Academic Regulations Governing Master’s Degree Programmes of Macao Polytechnic Institute”. Students who do not meet the attendance requirements for the course shall be awarded an ‘F’ grade.

Assessment

The examination panel will assess the dissertation and give a single grade for the student upon completing the oral defense examination. There will be no tests or written examination. For details regarding the assessment criteria, please refer to the *Dissertation Handbook*.

Teaching Material(s)

Textbook(s)

There is no required text for this course. As self-learning ability is highly appreciated, students are encouraged to search for relevant reference by themselves. Dissertation supervisor will also recommend suitable reference to individual project on a required basis.