

HONG KONG BAPTIST UNIVERSITY

COURSE OUTLINE

1. COURSE TITLE

MSc Practicum

2. COURSE CODE

COMP7280

3. NO. OF UNITS

3 Units

4. OFFERING DEPARTMENT

Master of Science in Data Analytics and Artificial Intelligence

5. PREREQUISITES

Postgraduate Student Standing

6. MEDIUM OF INSTRUCTION

English

7. AIMS & OBJECTIVES

Students will develop: (i) mastery of integrating concepts with practice in information systems, (ii) creative and systematic problem solving skills for analyzing, designing, and implementing information systems, and (iii) report writing and presentation skills for effective communication in IT enterprises.

8. COURSE CONTENT

I. Project Briefing

II. Project Topics Selection

III. Project Plan

- Project objectives
- Feasibility study
- Development schedule
- Team organization

IV. Systems Analysis

- Requirements analysis
- Information description
- Functional description
- Report writing/documentation
- Presentation

V. Systems Design

- Design description: data, modules, interface, etc.
- Prototyping
- Report writing/documentation
- Presentation

VI. Implementation

- Coding
- Testing
- Demonstration
- Report writing and user manuals

9. COURSE INTENDED LEARNING OUTCOMES (CILOs)

CILO	By the end of the course, students should be able to:
CILO 1	Describe how to use principled methodology to analyze, design, and develop a system to solve a problem
CILO 2	Go through a complete system development lifecycle
CILO 3	Identify problems and propose solutions to solve the problems, integrating knowledge learned and acquiring knowledge from additional sources
CILO 4	Demonstrate organizational and time-management skills
CILO 5	Produce technical reports and effective presentations
CILO 6	Conduct work on a project, individually or as part of a team, from initial topic selection, up to final project presentation and delivery

10. TEACHING & LEARNING ACTIVITIES (TLAs)

CILO alignment	Type of TLA
1,2,4	Students will be guided by the checkpoints described in the project handbook and fulfil the requirements of all stages in the project.
2,3,6	Students will identify problems and propose and implement solutions based on the knowledge and techniques learned in this programme and/or from other sources.
2,5	Students will meet regularly with supervisors to discuss and arrange various project tasks.

5	Students will give an oral presentation of the project
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11. ASSESSMENT METHODS (AMs)

Type of Assessment Methods	Weighting	CILOs to be addressed	Description of Assessment Tasks
Continuous Assessment	10 %	4,6	This category covers the assessment of the attitude of the students, the amount of effort the student has put into the project, self discipline, and the general management skills in the project development process. The ingenuity of development and creativity towards achieving the project objectives are considered. The progress reports are also assessed in this category. This category is assessed by the Supervisor only.
Project Report	70 %	1-3,5	<p>The grade for this category reflects the quality and the amount of completed work including those of the final report and, if any, the system. Student's ground work, and identification and analysis of the problem will be graded in this category. This category also assesses the efficiency and robustness of the solutions. A balance between completeness of the project and difficulty of the project will also be taken into consideration. Higher grade could be awarded for project originality.</p> <p>This category is assessed by both the Supervisor and the Co-Supervisor.</p>
Presentation	20 %	5	<p>This category assesses students' oral presentation of the project. Communication skills are emphasized.</p> <p>This category is assessed by both the Supervisor and the Co-Supervisor.</p>

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