

**LESSON PLAN**

<b>FACULTY</b>	Faculty of Information and Computing Technology		
<b>DEPARTMENT</b>	Department of Information Computing		
<b>PROGRAMME</b>	Diploma in Computer Science Diploma in Web Development Diploma in E-Commerce	<b>SEMESTER YEAR</b>	May (M) / 2024 (Y)

**Module Details: (A)**

<b>Module Code</b>	TCPJ214
<b>Module Title</b>	Project
<b>Credit</b>	4
<b>Lecturer</b>	Ms Suhailah binti Fauzi
<b>Time &amp; Venue</b>	Flexible
<b>Contact</b>	Office: Block B, 4 <sup>th</sup> Faculty of Information and Computing Technology Office Email: <a href="mailto:suhailah.f@newera.edu.my">suhailah.f@newera.edu.my</a> Mobile No: 011-36716505
<b>Semester</b>	Year 2, Semester 2
<b>Duration</b>	14 weeks
<b>Assessment Date</b>	Supervisor Nomination: Week 3 Project Proposal: Week 5 Project Report: Week 14 Project Presentation: Week 14
<b>Pre-requisites</b>	NIL

**Module Details: (B)**

<b>Synopsis of Module</b>	This module is an ideal vehicle for the development of skills and ability to work creatively under the guidance and supervision of the lecturer. The students will be study to analyse the problems, requirements, and develop the proposed solution using various tools in the computer science field by following the program development methodology and knowledge gain throughout the studies. This course covers the following activities: problem identification, evaluation of the research proposal, presentation of the project proposal, mastering of tools and evaluation of the academic report and presentation.
<b>Learning Outcomes</b>	At the end of the course, students should be able to: <ol style="list-style-type: none"> <li>1. Analyse problems, challenges and come up with appropriate solutions. (C4, PLO2)</li> <li>2. Build a project/system by using the appropriate programming language and tools. (P3, PLO3)</li> <li>3. Demonstrate the project/system follows the program development methodology in the documentation. (C3, PLO9)</li> <li>4. Justify the outcomes of the project/system, documentation and</li> </ol>

	commercialization opportunity. (A3, PLO6)																																
Outline Module	<div>1. Project Briefing</div> <div>2. Supervisor nomination</div> <div>3. Project Proposal</div> <div>4. Project Development</div> <div>5. Report Writing</div> <div>6. Presentation</div>																																
Teaching and Learning Methods	Discussion and Supervision																																
Project Requirements	<p>This task is to be completed individually under the guidance of your designated supervisor. You are mandated to construct a system or application that is connected to your programme and pertinent to the present circumstances. Prior to the commencement of the project, it is necessary for you to draft a proposal. Subsequently, following the completion of the development phase, it is imperative to compile a comprehensive report and deliver a presentation on your work.</p>																																
Assessment Methods & Grading	<table><tr><th>No</th><th>Items</th><th>Marks</th><th>CLO</th></tr><tr><td>1</td><td>Progress Report</td><td>10</td><td>CLO1</td></tr><tr><td>2</td><td>System/Project</td><td>30</td><td>CLO2</td></tr><tr><td>3</td><td>Project Proposal</td><td>10</td><td>CLO3</td></tr><tr><td rowspan="5">4</td><td>Final Report</td><td>20</td><td rowspan="5">CLO4</td></tr><tr><td>Presentation</td><td></td></tr><tr><td><div>• Poster</div></td><td>5</td></tr><tr><td><div>• Slide</div></td><td>5</td></tr><tr><td><div>• Video</div></td><td>20</td></tr><tr><td></td><td>Total</td><td>100%</td><td></td></tr></table> <p>Please refer assessment rubric for each of the items. Please refer <b>APPENDIX A</b> for the “Progress Report Template”.</p>	No	Items	Marks	CLO	1	Progress Report	10	CLO1	2	System/Project	30	CLO2	3	Project Proposal	10	CLO3	4	Final Report	20	CLO4	Presentation		<div>• Poster</div>	5	<div>• Slide</div>	5	<div>• Video</div>	20		Total	100%	
No	Items	Marks	CLO																														
1	Progress Report	10	CLO1																														
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3	Project Proposal	10	CLO3																														
4	Final Report	20	CLO4																														
	Presentation																																
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	<div>• Slide</div>	5																															
	<div>• Video</div>	20																															
	Total	100%																															
Submission Requirements	<div>1. Submit the softcopy in the ELP in Week 5. Create a folder name as <i>StudentName_StudentIDNo_ProjectTitle</i>. The following files must be in the folder.</div> <div><div>i. Proposal in word and pdf files. Name the file as <i>Proposal_Title</i>. (ex: <i>Proposal_Enhanced AR Catalogue for Pizza Ordering System</i>)</div><div>ii. Related papers/articles/journals (5 or more papers/articles/journals) by naming each file with its own title of the papers.</div></div> <p><i>You are advised to discuss and share project proposal to your supervisor for the comments and suggestions before you submit t ELP.</i></p>																																

2. Submit the softcopy in Week 14 in the ELP and google drive (link: <https://shorturl.at/Kmnlj>) in the folder of your own supervisor's name. Create a folder name as *StudentName\_StudentIDNo\_ProjectTitle*.  
The following files must be in the folder.
- i. **Project Proposal** in word file and pdf file.  
Name the file as *Proposal\_Title*. (ex: *Proposal\_ Enhanced AR Catalogue for Pizza Ordering System*)
  - ii. **Project Report** in word and pdf file.  
Name the file as *Report\_Title*. (ex: *Report\_ Enhanced AR Catalogue for Pizza Ordering System*)
  - iii. A **folder** of your system/application.  
Name the folder as *Project\_Title*. (ex: *Project\_ Enhanced AR Catalogue for Pizza Ordering System*)
  - iv. A **Poster** in any relevant file type.  
Name the file as *Poster\_Title*. (ex: *Poster\_ Enhanced AR Catalogue for Pizza Ordering System*)
  - v. **Slide presentation** in ppt file.  
Name the file as *Slide\_Title*. (ex: *Slide\_ Enhanced AR Catalogue for Pizza Ordering System*)  
  
Contents of slide presentation (9-15 slides):
    - Title with student details
    - Introduction of the project
    - Problem statement
    - Project Objectives
    - Literature Review (introduction)
    - List subtopic for Literature Review
    - Project Methodology
    - Project Design – Flowchart (1 design only)
    - Conclusion
  - vi. **Video presentation and project demonstration** of your system/application in any relevant file type.  
Name the file as *Video\_Title*. (ex: *Video\_ Enhanced AR Catalogue for Pizza Ordering System*)  
  
Video submission requirements:
    - Size: 50MB
    - Duration: 3-5 minutes
    - Formal attire of the presenter (must show your face)
    - Formal background – NEUC buildings/logo

	<ul style="list-style-type: none"> <li>▪ Flow of video contents:               <ul style="list-style-type: none"> <li>• Introduce yourself</li> <li>• Project introduction – title, problem statement, objectives, and related information</li> <li>• Project demonstration (back end and front end)</li> <li>• Conclusion</li> </ul> </li> <li>vii. Related papers/articles/journals (10 or more papers/articles/journals) by naming each file with its own title of the papers.</li> </ul>
<b>Structure of the Project Proposal</b>	<p>Cover Page</p> <p>TABLE OF CONTENTS</p> <p>ABSTRACT</p> <p>1 INTRODUCTION</p> <p>2 PROBLEM STATEMENT</p> <p>3 PROJECT OBJECTIVES</p> <p>4 PROJECT SCOPE</p> <p>5 PROJECT JUSTIFICATION</p> <p>6 PROJECT METHODOLOGY</p> <p>7 PROJECT TIMELINE</p> <p>8 CONCLUSIONS</p> <p>9 REFERENCES</p> <p>APPENDICES</p> <p><i>Please refer project proposal guidelines and template.</i></p>
<b>Structure of the Project Report</b>	<p>Cover Page</p> <p>DECLARATION</p> <p>CERTIFICATION OF APPROVAL</p> <p>ACKNOWLEDGMENT</p> <p>ABSTRACT</p> <p>TABLE OF CONTENTS</p> <p>LIST OF FIGURES</p> <p>LIST OF TABLES</p> <p>LIST OF ABBREVIATIONS</p>

## CHAPTER 1

### 1 INTRODUCTION

- 1.1. Background of the Research
- 1.2. Problem Statement
- 1.3. Project Objectives
- 1.4. Project Scope
- 1.5. Project Significance
- 1.6. Report Organization

## CHAPTER 2

### 2 LITERATURE REVIEW

- 2.1. Introduction
- 2.2. The Related System/Study
- 2.3. Related Techniques and Technology
- 2.4. Critical review of Current Problem, justification
- 2.5. Summary

*\*This is the guideline only. The exact subtopic depends on your project.*

## CHAPTER 3

### 3 PROJECT METHODOLOGY

- 3.1. Introduction
- 3.2. Development Lifecycle Methodology Used in Project (ex: Waterfall Model)
- 3.3. Project Timeline/Milestone
- 3.4. Justification of Methodology
- 3.5. Summary

## CHAPTER 4

### 4 PROJECT PLANNING AND ANALYSIS

- 4.1. Introduction
- 4.2. Project Planning
- 4.3. Project Requirements
  - 4.3.1. Gathering and Analysis of Requirements (optional)
  - 4.3.2. Hardware and Software Requirements

	<p>4.3.3. Functional Requirements</p> <p>4.3.4. Non-Functional Requirements</p> <p>CHAPTER 5</p> <p>5 PROJECT DESIGN</p> <p><i>Any relevant design for the project. Below are the examples:</i></p> <p>5.1. Flowchart</p> <p>5.2. Project Architecture</p> <p>5.3. Sequence Diagram</p> <p>5.4. Entity Relationship Diagram</p> <p>5.5. Data Flow Diagram</p> <p><i>*Not compulsory to follow as above. It depends on your project.</i></p> <p>5.6. Summary</p> <p>CHAPTER 6</p> <p>6 PROJECT DEVELOPMENT</p> <p>6.1. Project Development Process</p> <p>6.2. User Manual</p> <p>6.3. Types of Testing</p> <p>6.4. Summary</p> <p>CHAPTER 7</p> <p>7 CONCLUSION</p> <p>7.1. Project Summarization</p> <p>7.2. Future Enhancement</p> <p>REFERENCES</p> <p>APPENDICES</p>
<p><b>Rules of Submission</b></p>	<p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>• The student must hand in their assignment on time.</li> <li>• Half of the points will be deducted for late submissions, and the missed submission will be marked as “ZERO”.</li> <li>• The students must follow the guidelines and fulfil the assessment rubric.</li> <li>• The students must complete the project individually to receive a passing grade in the course.</li> </ul>

<b>Class Requirement</b>	<ul style="list-style-type: none"> <li>If the class is in online mode, the Zoom Meeting/Google Meet info will be announced through Whatsapp Group.</li> <li>The course materials will be updated on the ELP system, the students can download the course materials via ELP website this semester.</li> <li>Any related update messages and information will be announced through Whatsapp Group.</li> <li>The participation rate will be checked for all (online) participants. Please do not absent without reason for more than 2 times. Every leave application must be followed with the FICT procedure.</li> </ul>
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**Indicative Reading List or Other Learning Resources :**

<b>Textbook</b>	1. Schwalbe, K. (2021). An Introduction to Project Management, Seventh Edition: Predictive, Agile, and Hybrid Approaches. Independently published.
<b>Other Additional Information</b>	<ol style="list-style-type: none"> <li>Srinath Perera and Robert Eadie (2022). Managing Information Technology Projects: Building A Body Of Knowledge In It Project Management. World Scientific Publishing Co Pte Ltd.</li> <li>Michael Boylan and Wanda TeaysMike Quinn (2022). Ethics in the AI, Technology, and Information Age. Rowman &amp; Littlefield.</li> <li>Vishwajit K Barbudhe, Shraddha N Zanjat, and Bhavana S Karmore (2020). Information Technology Project Management. LAP Lambert Academic Publishing.</li> </ol>


**Lesson Plan:**

Week	Topic	Task	Remark
1	FINAL YEAR PROJECT BRIEFING PROJECT AREA BRIEFING		
2	WRITING PROJECT PROPOSAL		
3	Chapter 1- INTRODUCTION <ul style="list-style-type: none"> <li>Problem Statement</li> <li>Project Objective, Scope, Justification</li> <li>Log Book</li> <li>Supervisory meeting and project discussion</li> </ul>		Supervisor nomination by the students
4	Chapter 2 - LITERATURE REVIEW <ul style="list-style-type: none"> <li>Writing literature review</li> <li>Resource searching skills</li> <li>Reference and citation formatting</li> </ul>	Student weekly meeting with their own supervisor	
5	Chapter 3 - METHODOLOGY <ul style="list-style-type: none"> <li>System development methodology</li> <li>Gantt chart and project management</li> <li>Data collection, requirement survey and</li> </ul>	Student weekly meeting with their own supervisor	Project Proposal Submission in elp

Week	Topic	Task	Remark
	discussion		
6	Chapter 4 - DESIGN • System design - system architecture, flowchart, storyboard, use case diagram, SRS, I/O, database, interface • Research - Experimental design (overall flow, testbed/simulation), parameter and testing method	Student weekly meeting with their own supervisor	
7	Chapter 5 - IMPLEMENTATION • System Deployment	Student weekly meeting with their own supervisor	
8	Chapter 6 – TESTING AND RESULT ANALYSIS • Types of testing • Result and discussion	Student weekly meeting with their own supervisor	
9	REPORT WRITING • Writing skills • Formatting • References • Plagiarism issues	Student weekly meeting with their own supervisor	
10	Student independent learning	Student weekly meeting with their own supervisor	
11	Student independent learning	Student weekly meeting with their own supervisor	
12	Student independent learning	Student weekly meeting with their own supervisor	
13	Student independent learning	Student weekly meeting with their own supervisor	
14	<b>PROJECT SUBMISSION</b>		

*(\*\*Topic or module does not need to be exactly 14 weeks. It's up to each lecturer to decide what to teach, the duration per topic, and to make known when to give assignments, projects, quizzes or presentations.)*



Prepared by: (Lecturer)	Checked by: (Programme Coordinator)	Verified by: (Head of Department)
Signature: 	Signature:	Signature:
Name: SUHAILAH BINTI FAUZI	Name:	Name:
Date: 1/5/2024	Date:	Date:

**APPENDIX A**

**Progress Report Template (CLO1) – 10%**  
*(to be attached in the final report as appendix)*

**PROGRESS REPORT**

Student Name : \_\_\_\_\_

Student ID No : \_\_\_\_\_

Programme : \_\_\_\_\_

Supervisor's Name : \_\_\_\_\_

Project Title : \_\_\_\_\_

Week	Date	Descriptions	Remarks
1	13/5/2024 – 17/5/2024	Reading/thinking of the project	
2			
3			
4		<i>Ex: Meeting Supervisor Confirmation on the title, problem statement, objectives, methodology etc.</i>	<i>To update supervisor project proposal on next meeting</i>
5			
6			
7			
8			
9			
10			
11			
12			
13			
14		<b>Project Submission</b>	

Prepared by,  
*Signature*

Verified by,  
*Signature*

(Student name)

(Supervisor's name)