



KEMENTERIAN
PENDIDIKAN
MALAYSIA



PROJECT GUIDELINE

**DIPLOMA IN INFORMATION TECHNOLOGY
(DIGITAL TECHNOLOGY)
POLITEKNIK MALAYSIA**

TRACK NETWORKING SYSTEM

**TRACK SOFTWARE AND APPLICATION
DEVELOPMENT**

TRACK INFORMATION SECURITY

Project Guideline Diploma in Information Technology (Digital Technology)
Politeknik Malaysia
1st Edition

@Percetakan Zainon Kassim Sdn Bhd

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1.0 INTRODUCTION

PROJECT GUIDELINE Diploma in Information Technology (Digital Technology) Politeknik Malaysia is to be used by student and lecturer of Jabatan Teknologi Maklumat Dan Komunikasi Politeknik Malaysia. This guideline is for Diploma in Information Technology (Digital Technology) track Networking System, track Software and Application Development and track Information Security only. The student project is a compulsory course to be taken for 5th semester students for the 3 years and 4th semester students for the 2.5 years diploma program. Each student will complete a project based on their field of study. The project guideline allows the students an opportunity to practice their theoretical knowledge and problem solving in the area of information technology. Students will be assessed on their skills in designing, problem solving, and performing technical management work.

2.0 PROJECT SELECTION CRITERIA

- i. Projects must be developed in accordance to the requirements of industry, community or organization and can be commercialized if appropriate.
- ii. Projects should have future upgrade values, which can be made to improve the quality of the project.
- iii. All propose projects must be original. Students who plagiarized will be **STRICTLY** penalized and result will be failed.
- iv. Selection of project scope and topic can be done through discussion with the coordinator and supervisor. Student also can propose the topic themselves, and must be approved by the head of program, coordinator or supervisor.

3.0 PROJECT PROCEDURES

- i. **Change project title**
Students are allowed to change their project title within **ONE (1)** week with project coordinator or supervisor approval.
- ii. **Task Summary**
Each student should describe their task individually. The task should be different within team members.
- iii. **Attendance**
Attendance must be at least 80%, if not students' coursework assessments marks will be disregarded.
- iv. **Copyright**
The Polytechnic will be the owner of all findings, designs, patents and other intellectual property rights of the student projects.
- v. **Plagiarism**
Students may discuss with their supervisors if they are in doubt of plagiarism. If found committed plagiarism, strict action will be taken against the students.

4.0 PROJECT PLANNER

WEEK	SHORT SEM	TASK	ASSESSMENT	MARK	REMARK	
Week 1	Week 1	1.0 PROJECT PROPOSAL. 1.1 Prepare project plan and project design			STUDENT / SUPERVISOR	
Week 2			PROPOSAL PRESENTATION	CLO 1(10%)	STUDENT / SUPERVISOR / ACCESSOR	
Week 3	Week 2	2.0 PROJECT DEVELOPMENT. 2.1 Plan requirement and design specifications. 2.2 Manage the hardware or software configuration. 2.3 Develop problem specification and design.			STUDENT / SUPERVISOR	
Week 4					STUDENT / SUPERVISOR	
Week 5	Week 3				STUDENT / SUPERVISOR	
Week 6			DEMO #1	CLO 2(20%)	STUDENT / SUPERVISOR	
Week 7	Week 4				STUDENT / SUPERVISOR	
Week 8					STUDENT / SUPERVISOR	
Week 9	Week 5				STUDENT / SUPERVISOR	
Week 10			DEMO #2	CLO 2(20%)	STUDENT / SUPERVISOR	
Week 11	Week 6				STUDENT / SUPERVISOR	
Week 12					STUDENT / SUPERVISOR	
Week 13	Week 7		3.0 DELIVERABLES. 3.1 Present deliverables. 3.2 Prepare project documentation. 3.3 Present final project.			STUDENT / SUPERVISOR
Week 14						STUDENT / SUPERVISOR
Week 15	Week 8	CAPSTONE PROJECT PRESENTATION. <ul style="list-style-type: none">Capstone project presentationCapstone CorrectionRe-Present Capstone ProjectFull Documents and Project Submitted	CAPSTONE PROJECT 1. Technical Report 2. End Product 3. Log Book	CLO 1(5 %) CLO 2(45 %) GSA (100%)	STUDENT / SUPERVISOR / ACCESSOR	

**This planner can be amendable accordance to polytechnic*

5.0 PROJECT GANTT CHART

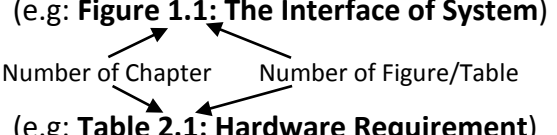
WEEKS	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14	W15
	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	WEEK 9	WEEK 10	WEEK 11	WEEK 12	WEEK 13	WEEK 14	WEEK 15
1.0 PROJECT PROPOSAL. Prepare project plan and project design															
PROPOSAL PRESENTATION															
2.0 PROJECT DEVELOPMENT. 2.1 Plan requirement and design specifications. 2.2 Manage the hardware or software configuration. 2.3 Develop problem specification and design.															
DEMO 1 PRESENTATION															
2.0 PROJECT DEVELOPMENT. (Continue) 2.1 Plan requirement and design specifications. 2.2 Manage the hardware or software configuration. 2.3 Develop problem specification and design.															
DEMO 2 PRESENTATION															
2.0 PROJECT DEVELOPMENT. (Continue) 2.1 Plan requirement and design specifications. 2.2 Manage the hardware or software configuration. 2.3 Develop problem specification and design.															
3.0 DELIVERABLES. 3.1 Present deliverables. 3.2 Prepare project documentation. 3.3 Present final project.															
CAPSTONE PROJECT PRESENTATION															
<ul style="list-style-type: none"> Capstone project presentation Project refining Re-Present Capstone Project Full Documents and Project Submission 															

**This Gantt chart can be amendable accordance to polytechnic*

6.0 DOCUMENTATION FORMAT

Table 1.0 shows the documentation format for technical report.

Table 1.0 : Documentation Format

ITEMS	DESCRIPTION
Cover Page	The cover of technical project report must contain project title, authors name, registration number, department name, polytechnic name and session of study. * Refers at Appendix 2.
Paper and Size	Use only high quality white A4 70-gram or A4 80-gram paper, size 210mm X 297mm.
Margin	For each page, the margin should be: <ul style="list-style-type: none"> • Left: 40 mm • Right, Top and Bottom: 25 mm • Header and Footer: 15 mm
Format	1.15 spacing should be used in preparing the technical project report including tables or charts. The format which acceptable is: <ul style="list-style-type: none"> • Font Type: Times New Roman, Font Size: 12 pt. • Chapter Title: Uppercase, Bold, Centered (e.g: 1.0 PROJECT PLAN) • Chapter Sub-section: Title Case, Bold, Align left (e.g: 1.1 Introduction) • Paragraph: Justify
Figure and Table	All tables, charts, figures, and graphs should be numbered and titled. Both number and title should be centered either directly above tables label or directly below figure label. The numbering must be related to the Chapter. (e.g: Figure 1.1: The Interface of System)  (e.g: Table 2.1: Hardware Requirement)
Technical Project Report	Report must be written minimum 30 pages length and not more than 50 pages EXCLUDED front page, appendix and references.
Paging	Bottom right.
References	Any material taken from another source must be cited and a brief reference to its source must be included in the text. Students must follow The American Psychological Association (APA) reference citations style for references in text. * Refers at Appendix 6.
Binding	Report cover must be comb binding with plastic cover, blue color and 14 times New Roman font face.

7.0 TECHNICAL PROJECT REPORT

Table 2.0 shows the content of technical report.

Table 2.0 : Content of technical report

NO.	ITEMS	DESCRIPTION
	ABSTRACT	A brief summary of project to help user understand the project problems, purpose, methods and scope but NOT results, conclusions and recommendations. It must be below 100 words only in one paragraph.
	TABLE OF CONTENT	Table of content must have page number and sequence to the report items.
1.0	PROJECT PLAN	<p>1.1 Introduction A brief description of the product to be produced.</p> <p>1.2 Problem Statement A concise description of an issue to be addressed or a condition to be improved.</p> <p>1.3 Objective of Project Purpose of the project should be in point form e.g: <ul style="list-style-type: none"> i. Objective 1 ii. Objective 2 iii. Objective 3 The objectives must be specific, measurable, achievable, relevant and time oriented.</p> <p>1.4 Scope of Project State the user scope or project boundaries while doing this project. This scope will make sure that this project will be done correctly according to the stated scope. It is suggested to state scope by module of function. <i>*The details of the scope depend on supervisor or client needs.</i></p> <p>1.5 Literature Review Reference of previous studies that relevant to the project.</p> <p>1.6 Methodology of Project Briefly explain the project development model based on methodology that suitable with the project.</p> <p>1.7 Project Gantt Chart Create the timeline of the project progress to complete the project. Refer to page 3 (Project Gantt Chart).</p>

NO.	ITEMS	DESCRIPTION
2.0	REQUIREMENT SPECIFICATION	<p>2.1 Functional Requirement List of project main functions.</p> <p>2.2 Non Functional Requirement Define system attributes such as security, reliability, performance, maintainability, scalability and usability.</p> <p>2.3 Hardware and Software Requirement List of hardware and software specification to be used in the project in a table form.</p> <p>2.4 System Configuration Explain how to configure the system.</p> <p>2.5 Security Requirement / Exceptional Handling Explain the security features / exceptional handling method implemented in the project.</p>
3.0	FINAL DESIGN	<p>3.1 Logical Design Explain and show the detailed of logical design project. It includes all system development diagrams such as data flow diagram, flowcharts, entity relationship diagram, contact diagram, schematic diagrams and network logical topology.</p> <p>3.2 Physical Design Explain and show the detailed of physical design project. It includes all user interface design network physical topology.</p> <p>or</p> <p>3.2 Experimental Concept Explain and show the detailed planning of studies to meet objective, collect data using suitable tools and executed experiment.</p>

NO.	ITEMS	DESCRIPTION
4.0	TEST DESCRIPTION AND RESULTS	<p>Students need to explain the development of process and result of the project. The testing processes also must be done to verify the functionality of the project.</p> <p>4.1 Unit Testing Plan Describe the unit testing scope and activities based on the given example.</p> <p>4.2 Integration Testing Plan Describe the integration testing activities based on the given example.</p> <p>4.3 User Acceptance Test (if applicable) Describe the user acceptance testing activities based on the given example. <i>*The example refers at Appendix 4.</i></p>
5.0	DISCUSSIONS	<p>5.1 Advantage of the Project List the advantage(s) of end product / final output that has been achieved.</p> <p>5.2 Limitation of the Project List the limitation(s) of end product / final output.</p>
6.0	CONCLUSIONS AND RECOMMENDATIONS	<p>Students should make conclusion about the project and discuss the importance of the project outcome. Students also have to make recommendation(s) or suggestion(s) in order to enhance the project for future works.</p>
7.0	REFERENCE	<p>List of works cited from published books, public document, journals, articles, thesis, magazines, films, videos, slides, maps, unpublished materials and electronic materials including websites. The way of written is follow the APA style format. <i>* Refers at Appendix 6.</i></p>

8.0 ASSESSMENT RUBRIC

PROJECT SCORE RECORD (100%) DFT6014 - INTEGRATED PROJECT

STUDENT INFORMATION						
COURSE NAME	INTEGRATED PROJECT			COURSE CODE	DFT6014	
PROJECT TITLE				CLASS		
SUPERVISOR NAME				DATE		
STUDENT NAME	S1:			REGISTRATION NUMBER	S1:	
	S2:				S2:	
	S3:				S3:	
PROPOSAL PRESENTATION AND DEMONSTRATION						
ITEM	CLO	ASSESSOR	PERCENT (%)	S1	S2	S3
PROPOSAL PRESENTATION	CLO 1	SUPERVISOR AND ASSESSOR	10			
DEMONSTRATION 1	CLO 2	SUPERVISOR	20			
DEMONSTRATION 2	CLO 2	SUPERVISOR	20			
TOTAL			50			
CAPSTONE PROJECT						
ITEM	CLO	ASSESSOR	PERCENT (%)	S1	S2	S3
TECHNICAL REPORT	CLO 2	SUPERVISOR	10			
END PRODUCT	CLO 2	SUPERVISOR AND ASSESSOR	35			
LOG BOOK	CLO 1	SUPERVISOR	5			
TOTAL			50			
ASSESSMENT TASK						
ITEM	CLO	ASSESSOR	PERCENT (%)	S1	S2	S3
LD 3: COMMUNICATION SKILLS	CLO 3	SUPERVISOR	10			
LD 4: CRITICAL THINKING AND PROBLEM SOLVING SKILLS	CLO 3		10			
LD 5: SOCIAL SKILLS AND RESPONSIBILITIES	CLO 3		10			
LD 7: MANAGEMENT AND ENTREPRENEURIAL SKILLS	CLO 3		10			
LD 9: LEADERSHIP AND TEAMWORK SKILLS	CLO 3		10			
TOTAL			50			

FINAL PROPOSAL PRESENTATION SCORE (10%)
DFT6014 - INTEGRATED PROJECT

STUDENT INFORMATION				
COURSE NAME	INTEGRATED PROJECT	COURSE CODE	DFT6014	
PROJECT TITLE		CLASS		
SUPERVISOR NAME		DATE		
STUDENT NAME	S1:	REGISTRATION NUMBER	S1:	
	S2:		S2:	
	S3:		S3:	
PROPOSAL PRESENTATION SCORE				
TYPE OF ASSESSMENT		STUDENT SCORE		
		S1	S2	S3
SUPERVISOR (A)				
ACCESSOR (B)				
TOTAL PROPOSAL PRESENTATION SCORE (A + B)				
TOTAL PROPOSAL PRESENTATION SCORE (10%) FORMULA ((A+B) / 2)				

PROPOSAL PRESENTATION (10%)

DFT6014 - INTEGRATED PROJECT

<input type="checkbox"/>	SUPERVISOR
<input type="checkbox"/>	ASSESSOR

STUDENT INFORMATION									
COURSE NAME	INTEGRATED PROJECT				COURSE CODE	DFT6014			
PROJECT TITLE					CLASS				
SUPERVISOR NAME					DATE				
STUDENT NAME	S1:				REGISTRATION NUMBER	S1:			
	S2:					S2:			
	S3:					S3:			
Aspects	Proposal Presentation Score						Student Score		
	5	4	3	2	1	0	S1	S2	S3
1. Introduction [CLO 1]	Always clearly explains the project to be undertaken	Clearly explains the project to be undertaken most of the time	Sometimes clearly explains the project to be undertaken	Occasionally explains the project to be undertaken	Unclear and incomplete understanding of the project to be taken	Vague about the project to be undertaken			
2. Problem Statement [CLO 1]	Always clearly explains the problems	Clearly explain the problems most of the time	Sometimes clearly explain the problems	Occasionally explains the problems faced	Vague explanations of the problems	No problem stated			
3. Objectives [CLO 1]	The main objective is very clear during first submission.	The main objective is clear during first submission.	The main objective needs to be improved	The main objective is clear after review.	The main objective is clear with guidance.	The main objective is not clear			
4. Scope [CLO 1]	Always clearly clarify system scope and user scope	Clearly clarify system scope and user scope most of the time	Most of the required system scope and user scope are included	Few of the required system scope and user scope are included	No clear clarification between system scope and user scope	Do not clarify user between system scope and user scope			
5. Project Significance (cannot be measured) [CLO 1]	Excellent explanation of the project significance	Very Clear explanation of the project significance	Clear explanations of project significance	Less clear about project significance	State very little about the project significance	Do Not state the project significance			

Aspects	Proposal Presentation Score						Student Score		
	5	4	3	2	1	0	S1	S2	S3
6. Literature Review [CLO 1]	The study carried out very clearly describe related evidence	The study carried out clearly describe related evidence	The study carried out briefly describe related evidence	The study carried out less related evidence	The study carried out with unclear evidence	No evidence stated			
7. Methodology [CLO 1]	Methodology associated with building projects.	Most methodology associated with building projects.	Few of methodology associated with building projects.	Lack of methodology associated with building projects.	Methodology used was not appropriate.	No correlation with the methodology of project work.			
8. References [CLO 1]	References are significant to project and very organized with well-constructed using APA format.	References are organized and significant to project and follow APA format	References are significant to project and follow APA format.	Reference is not significant to the project but follow APA format.	Reference does not follow APA format.	No references			
9. Gantt Chart [CLO 1]	Gantt Chart is accurate based on project schedule.	Gantt Chart is accurate based on project schedule but less specific.	Gantt Chart is accurate based on project schedule but not specific.	Gantt Chart is less accurate based on project schedule.	Gantt Chart is not accurate based on project schedule.	No Gantt chart.			
10. Cost Planning [CLO 1]	The project is proposed with an excellent cost planning	The project is proposed with good cost planning	The project is proposed with satisfactory cost planning	The project is proposed with minimal clarity cost planning	The project is proposed with unclearly cost planning	No cost planning			
11. Conclusion [CLO 1]	Student concludes the presentation confidently	Student concludes the presentation	Student concludes the presentation with few points.	Conclusion is vague.	Inappropriate conclusion.	No conclusion.			
12. Presentation [CLO 1]	Present with a high degree of effectiveness and ideas.	Present with a moderate degree of effectiveness and ideas	Present with some effective ideas	Present with considerable ideas	Present with limited ideas	No presentation			
Total Score (60)									
Proposal Presentation Score Formula = (Total Score / 60 * 10)									

DEMONSTRATION I (20%)
DFT6014 - INTEGRATED PROJECT

STUDENT INFORMATION									
COURSE NAME	INTEGRATED PROJECT					COURSE CODE	DFT6014		
PROJECT TITLE						CLASS			
SUPERVISOR NAME						DATE			
STUDENT NAME	S1:					REGISTRATION NUMBER	S1:		
	S2:						S2:		
	S3:						S3:		
Aspects	Demonstration I Score						Student Score		
	5	4	3	2	1	0	S1	S2	S3
1. Progress of Project Development [CLO 2]	50% complete	More than 40% complete	More than 30% complete	More than 20% complete	Less than 10% complete	No progress of project development			
2. Interface/ Structure Design [CLO 2]	Clearly explain the design of project structure in details.	Able to explain the project structure design briefly.	Explain the project structure design in general only.	Show the project structure design without explanations.	Project structure design is missing some elements.	No structure design.			
3. Content and Concept of Project [CLO 2]	The project does offer 100% solution to the problem.	The project does offer 80% solution to the problem.	The project does offer 60% solution to the problem.	The project does offer 40% solution to the problem.	The project does offer 20% solution to the problem.	No solution to a problem.			
4. System Security and Features/ Exceptional Handling [CLO 2]	Implement a very clearly system security/Exceptional Handling	Implement a clearly system security/Exceptional Handling	Implement a moderately system security/Exceptional Handling	Implement a fairly system security/Exceptional Handling	Implement a poorly system security/Exceptional Handling	No implementation of system security/Exceptional Handling			
5. Testing [CLO 2]	Test cases are very clearly tested with expected output and actual output	Test cases are clearly tested with expected output and actual output	Test cases are moderately tested with expected output and actual output	Test cases are fairly tested with expected output and actual output	Test cases are poorly tested with expected output and actual output	No testing			
Total Score (25)									
Demonstration I Score (20%) Formula = (Total Score / 25 * 20)									

DEMONSTRATION II (20%)
DFT6014 - INTEGRATED PROJECT

STUDENT INFORMATION									
COURSE NAME	INTEGRATED PROJECT					COURSE CODE	DFT6014		
PROJECT TITLE						CLASS			
SUPERVISOR NAME						DATE			
STUDENT NAME	S1:					REGISTRATION NUMBER	S1:		
	S2:						S2:		
	S3:						S3:		
Aspects	Demonstration II Score						Student Score		
	5	4	3	2	1	0	S1	S2	S3
1. Content and Concept of Project [CLO 2]	The project does offer 100% solution to the problem.	The project does offer 80% solution to the problem.	The project does offer 60% solution to the problem.	The project does offer 40% solution to the problem.	The project does offer 20% solution to the problem.	No project solution to a problem.			
2. Interface/ Structure Design [CLO 2]	Clearly explain the design of project structure in details.	Able to explain the project structure design briefly.	Explain the project structure design in general only.	Show the project structure design without explanations.	Project structure design is missing some elements.	No project structure design.			
3. Progress of Project Development [CLO 2]	80% complete	More than 65% complete	More than 50% complete	More than 35% complete	Less than 25% complete	No project development			
4. System Security and Features/ Exceptional Handling [CLO 2]	Implement a very clearly system security/Exceptional Handling	Implement a clearly system security/Exceptional Handling	Implement a moderately system security/Exceptional Handling	Implement a fairly system security/Exceptional Handling	Implement a poorly system security/Exceptional Handling	No implementation of system security/Exceptional Handling			
5. Testing [CLO 2]	Test cases are very clearly tested with expected output and actual output	Test cases are clearly tested with expected output and actual output	Test cases are moderately tested with expected output and actual output	Test cases are fairly tested with expected output and actual output	Test cases are poorly tested with expected output and actual output	No testing			
Total Score (25)									
Demonstration II Score (20%) Formula = (Total Score / 25 * 20)									

FINAL CAPSTONE PROJECT SCORE (50%)
DFT6014 - INTEGRATED PROJECT

STUDENT INFORMATION					
COURSE NAME	INTEGRATED PROJECT		COURSE CODE	DFT6014	
PROJECT TITLE			CLASS		
SUPERVISOR NAME			DATE		
STUDENT NAME	S1:		REGISTRATION NUMBER	S1:	
	S2:			S2:	
	S3:			S3:	
CAPSTONE PROJECT SCORE					
TYPE OF ASSESSMENT	CLO	ASSESSOR	STUDENT SCORE		
			S1	S2	S3
TECHNICAL REPORT (TR)	CLO 2	SUPERVISOR			
END PRODUCT (EP)	CLO 2	SUPERVISOR			
		ACCESSOR			
		AVERAGE (A)			
LOG BOOK (LB)	CLO 1	SUPERVISOR			
TOTAL CAPSTONE PROJECT SCORE (TR + EP + LB)					

FINAL CAPSTONE PROJECT SCORE TECHNICAL REPORT (10%)

STUDENT INFORMATION									
COURSE NAME	INTEGRATED PROJECT				COURSE CODE	DFT6014			
PROJECT TITLE					CLASS				
SUPERVISOR NAME					DATE				
STUDENT NAME	S1:				REGISTRATION NUMBER	S1:			
	S2:					S2:			
	S3:					S3:			
Aspects	Technical Report Score						Student Score		
	5	4	3	2	1	0	S1	S2	S3
1. Abstract [CLO 2]	Describe excellent and specific abstract sentence for project problems, purpose, scope and method, without grammatical errors. Very good explanations of the project	Describe good abstract sentence for project problems, purpose, scope and method, without grammatical errors. Clear explanations of the project	Describe clear abstract sentence for project problems, purpose, scope and method, without grammatical errors. Moderate explanations of the project	Describe moderate abstract sentence for project problems, purpose, scope and method, with moderate grammatical errors. Not clear explanations of the project	Describe poor abstract sentence for project problems, purpose, scope and method, with many grammatical errors. Vague explanations of the project.	Abstract sentence for project problems, purpose, scope and method, with many grammatical errors. No explanation of the project.			
2. Project Plan [CLO 2]	Describe excellent and specific sentence for introduction, problem statement, objective, scope, literature review, methodology and Gantt chart.	Describe good sentence for introduction, problem statement, objective, scope, literature review, methodology and Gantt chart.	Describe clear sentence for introduction, problem statement, objective, scope, literature review, methodology and Gantt chart.	Describe moderate sentence for introduction, problem statement, objective, scope, literature review, methodology and Gantt chart.	Describe poor sentence for introduction, problem statement, objective, scope, literature review, methodology and Gantt chart.	Not describe the introduction, problem statement, objective, scope, literature review, methodology and Gantt chart.			

Aspects	Technical Report Score						Student Score		
	5	4	3	2	1	0	S1	S2	S3
3. Requirement Specification [CLO 2]	All requirements are excellently describe.	Only 4 requirements are clearly describe.	Only 3 requirements are clearly describe.	Only 2 requirements are clearly describe.	Only 1 requirement is clearly describe.	No requirement.			
4. Final Design [CLO 2]	Excellently defines and shows process in design	Very well defines and shows process in design	Clearly shows and elaborates the design process.	Moderately shows and elaborates the design process.	Not clearly shows and elaborate the design process.	Not shown and elaborate design process.			
5. Test Description and Results [CLO 2]	Use good testing technique and suitable data. Good result elaboration.	Use good testing technique and show clear result after testing.	Use suitable testing technique and show clear result after testing.	Use suitable testing technique but not show clear result after testing.	Use unsuitable testing technique.	No testing technique.			
6. Major Findings and Discussions [CLO 2]	Excellently list the advantages and disadvantages	Very well list the advantages and disadvantages	Clearly list the advantages and disadvantages	Moderately list the advantages and disadvantages	Not clearly list the advantages and disadvantages	Do not list the advantages and disadvantages			
7. Conclusions and Recommendations [CLO 2]	Excellent elaboration of the conclusion and recommendations	Good elaboration of the conclusion and recommendations	Clear elaboration of the conclusion and recommendations	Moderate elaboration of the conclusion and recommendations	Poor elaboration of the conclusion and recommendations	No conclusion and recommendations			
8. References [CLO 2]	References are significant to project and very organized with well-constructed using APA format.	References are organized and significant to project and follow APA format.	References are significant to project and follow APA format.	Reference is not significant to the project but follow APA format.	Reference does not follow APA format.	No references			
Total Score (40)									
Technical Report Score Formula = (Total Score / 40*10)									

FINAL CAPSTONE PROJECT SCORE
END PRODUCT/ FINAL OUTPUT (35%)

STUDENT INFORMATION									
COURSE NAME	INTEGRATED PROJECT					COURSE CODE	DFT6014		
PROJECT TITLE						CLASS			
SUPERVISOR NAME						DATE			
STUDENT NAME	S1:					REGISTRATION NUMBER	S1:		
	S2:						S2:		
	S3:						S3:		
Aspects	End Product/ Final Output Score						Student Score		
	5	4	3	2	1	0	S1	S2	S3
1. Project achievement and objective [CLO 2]	Project is 100% complete and achieve all objectives and exceed expectation.	Project is 90% complete and achieve all objectives.	Project is 80% complete and achieve most objectives.	Project is 70% complete and achieve a few objectives.	Project is less than 50% complete and achieves only one objective.	No objective achieves.			
2. User Requirements [CLO 2]	All user requirements have been met and exceeded.	All requirements were met.	Several requirements were met.	Not more than one requirement was not met.	Several requirements were not met.	No requirements were met.			
3. Construction and functionality [CLO 2]	Always describes effectively how the system was constructed and how it functions.	Most of the time describes how the system was constructed and how it functions.	Sometimes describes how the system was constructed and how it functions.	Occasionally describes how the system was constructed and how it functions.	Least attempts are made to describe how the system was constructed and how it functions.	No attempt is made to describe construction or functionally.			
4. Feasibility [CLO 2]	Always clearly communicated feasibility of construction and implementation. No errors with notification.	Clearly communicated feasibility of construction and implementation most of the time. Minor error.	Sometimes communicated feasibility of construction and implementation. Minor error.	Occasionally communicated feasibility of construction and implementation. Minor error.	Least communicated feasibility of construction and implementation. Major error.	No meaningful attempt was made to develop a solution. Major error.			

Aspects	End Product/ Final Output Score						Student Score		
	5	4	3	2	1	0	S1	S2	S3
5. Originality [CLO 2]	Product shows an excellent original thought.	Product shows a good original thought.	Product shows a moderate amount of original thought.	Uses other people's ideas but there is little reference of original thinking.	Uses other people's ideas.	No originality and plagiarism.			
6. Marketability [CLO 2]	Project marketability is clearly communicated as to how this design is different, better, set apart from what already exists.	Attempt is made to communicate the device's marketability most of the time as to, how this design is different, better, set apart from what already exists.	Moderate attempt is made to communicate the device's marketability as to how this design is different, better, set apart from what already exists.	Slight attempt is made to communicate the device's marketability, how this design is different, better, set apart from what already exists.	Least attempt is made to communicate the device's marketability, how this design is different, better, set apart from what already exists.	No meaningful attempt is made to communicate the project's marketability, how this design is different, better, set apart from what already exists.			
7. Creativity [CLO 2]	Excellent ideas, creative and inventive.	Good ideas, creative and inventive.	Moderate ideas, creative and inventive.	Fairly creative ideas and inventive	Lack of ideas, creativity and invention.	No creativity			
8. System Security, Features and Testing [CLO 2]	Excellent implementation of user controls and validation controls	Good implementation of user controls and validation controls	Moderate implementation of user controls and validation controls	Fair implementation of user controls and validation controls	Poor implementation of user controls and validation controls	No implementation of user controls and validation controls			
Total Score (40)									
End Product/ Final Output Score Formula = (Total Score / 40 * 35)									

FINAL CAPSTONE PROJECT SCORE LOG BOOK (5%)

STUDENT INFORMATION									
COURSE NAME	INTEGRATED PROJECT				COURSE CODE	DFT6014			
PROJECT TITLE					CLASS				
SUPERVISOR' NAME					DATE				
STUDENT NAME	S1:				REGISTRATION NUMBER	S1:			
	S2:					S2:			
	S3:					S3:			
Aspects	Log Book Score						Student Score		
	5	4	3	2	1	0	S1	S2	S3
1. Weekly activities [CLO 1]	All 14 weeks of activities are recorded in the log book.	More than 12 weeks of activities are recorded in the log book.	More than 8 weeks of activities are recorded in the log book.	More than 5 weeks of activities are recorded in the log book.	Less than 5 weeks of activities are recorded in the log book.	No activity is recorded in log book.			
	All 7 weeks of activities are recorded in the log book.	More than 6 weeks of activities are recorded in the log book.	More than 5 weeks of activities are recorded in the log book.	More than 4 weeks of activities are recorded in the log book.	Less than 3 weeks of activities are recorded in the log book.	No activity is recorded in log book.			
2. Supervisor signatures [CLO 1]	Supervisor's signature of verification is shown for all 14 weeks.	Supervisor's signature of verification is shown for more than 12 weeks.	Supervisor's signature of verification is shown for more than 8 weeks.	Supervisor's signature of verification is shown for more than 5 weeks.	Supervisor's signature of verification is shown for less than 5 weeks.	No signature of verification of the supervisor.			
	Supervisor's signature of verification is shown for all 7 weeks.	Supervisor's signature of verification is shown for more than 6 weeks.	Supervisor's signature of verification is shown for more than 5 weeks.	Supervisor's signature of verification is shown for more than 4 weeks.	Supervisor's signature of verification is shown for less than 3 weeks.	No signature of verification of the supervisor.			

Aspects	Log Book Score						Student Score		
	5	4	3	2	1	0	S1	S2	S3
3. Details [CLO 1]	Log book is exceptionally detailed, provide an in-depth look into the project activities, and reflects the student's commitment	Log book is exceptionally detailed; provide an in-depth look into the project activities.	An appropriate amount of detail is used to explain the project activities done.	Details are missing, insufficient illustration of the project activities are done.	Details are missing and do not illustrate the project activities done.	No activity done is recorded.			
4. Neatness [CLO 1]	The log book is exceptionally neat. The pages are in very good condition, handwriting is neat and an obvious effort has been made to keep the log book presentable	The log book is neat. The pages are in good condition, handwriting is neat and some effort has been made to keep the log book presentable	The log book is averagely neat. The pages are in satisfactory, readable condition, handwriting is legible and some effort has been made to keep the logbook presentable	The log book is relatively neat. The pages are in unsatisfactory but still in readable condition, handwriting is legible and less effort has been made to keep the logbook presentable	The log book is unkempt. The pages are in unsatisfactory condition. It is in virtually unreadable condition. Handwriting is illegible. Less effort has been made to keep the logbook presentable	The log book is in unsatisfactory condition. It is in virtually unreadable condition. Handwriting is illegible. No effort has been made to keep the logbook presentable			
Total Score (20)									
Log Book Score Formula = (Total Score / 20 * 5)									

OTHER ASSESSMENT TASK (100%)

DFT6014 - INTEGRATED PROJECT

STUDENT INFORMATION								
COURSE NAME	INTEGRATED PROJECT				COURSE CODE	DFT6014		
PROJECT TITLE					CLASS			
SUPERVISOR NAME					DATE			
STUDENT NAME	S1:				REGISTRATION NUMBER	S1:		
	S2:					S2:		
	S3:					S3:		
LD 3: COMMUNICATION SKILLS								
Aspects	Score					Student Score		
	5	4	3	2	1	S1	S2	S3
1. Kejelasan Idea [CLO 3]	Boleh menyampaikan idea dengan sangat jelas.	Boleh menyampaikan idea dengan jelas	Boleh menyampaikan idea dengan jelas namun memerlukan sedikit penambahbaikan.	Boleh menyampaikan idea dan memerlukan penambahbaikan lanjut.	Tidak boleh menyampaikan idea dan memerlukan banyak penambahbaikan.			
2. Kefahaman dan menjawab soalan [CLO 3]	Boleh memahami dan menjawab soalan dengan cemerlang.	Boleh memahami dan menjawab soalan dengan baik	Boleh memahami dan menjawab soalan dengan memuaskan.	Boleh memahami dan menjawab soalan tetapi kurang bertepatan dengan kehendak soalan.	Tidak memahami dan tidak dapat menjawab soalan.			
Total Score (10)								

LD 4: CRITICAL THINKING AND PROBLEM SOLVING SKILLS

Aspects	Score					Student Score		
	5	4	3	2	1	S1	S2	S3
3. Penjanaan Penyelesaian [CLO 3]	Boleh menyelesaikan masalah atau menawar penyelesaian alternatif dengan sangat tepat, terperinci dan jelas.	Boleh menyelesaikan masalah atau menawar penyelesaian alternatif dengan tepat dan jelas tanpa bantuan.	Boleh menyelesaikan masalah atau menawar penyelesaian alternatif dengan sedikit bantuan.	Boleh menyelesaikan masalah atau menawar penyelesaian alternatif dengan bantuan yang maksimum.	Tidak boleh menyelesaikan masalah atau menawar penyelesaian alternatif.			
4. Integrasi [CLO 3]	Boleh menyatukan idea-idea sedia ada dan boleh menghasilkan penyelesaian baharu dengan sangat jelas.	Boleh menyatukan idea-idea sedia ada dan boleh menghasilkan penyelesaian baharu dengan jelas.	Boleh menyatukan idea-idea sedia ada dan boleh menghasilkan penyelesaian baharu dengan bantuan.	Boleh menyatukan idea-idea sedia ada tetapi tidak boleh menghasilkan penyelesaian baharu.	Tidak boleh menyatukan idea-idea sedia ada.			
Total Score (10)								

LD 5: SOCIAL SKILLS AND RESPONSIBILITIES

Aspects	Score					Student Score		
	5	4	3	2	1	S1	S2	S3
5. Menghormati orang lain [CLO 3]	Menunjukkan rasa hormat dan penghargaan yang tinggi kepada hak dan keperluan individu	Menunjukkan rasa hormat dan penghargaan kepada hak dan keperluan individu lain	Menunjukkan sensitiviti terhadap hak dan keperluan individu lain.	Kurang sensitiviti terhadap hak dan keperluan individu lain.	Tiada sensitiviti terhadap hak dan keperluan individu lain.			
6. Sumbangan kepada masyarakat [CLO 3]	1. Sangat bertanggungjawab dan sentiasa mengambil inisiatif untuk melibatkan diri dalam komuniti. 2. Mampu berperanan aktif sebagai agen perubahan (seperti menjaga, memperbaiki, menstabilkan nilai moral dan norma) dalam komuniti.	1. Bertanggungjawab dan sentiasa mengambil inisiatif untuk melibatkan diri dalam komuniti. 2. Mampu berperanan sebagai agen perubahan (seperti menjaga, memperbaiki, menstabilkan nilai moral dan norma) dalam komuniti.	Bertanggungjawab dan mengambil inisiatif untuk melibatkan diri dalam komuniti pada tahap yang memuaskan.	Mengambil inisiatif untuk melibatkan diri dalam komuniti apabila diminta	Kurang inisiatif dan tidak berminat untuk melibatkan diri dalam komuniti.			
Total Score (10)								

LD 7: MANAGEMENT AND ENTREPRENEURIAL SKILLS

Aspects	Score					Student Score		
	5	4	3	2	1	S1	S2	S3
7. Organisasi Idea [CLO 3]	Menyampaikan idea dengan cara yang amat jelas, padu dan teratur.	Menyampaikan idea dengan cara yang jelas, padu dan teratur.	Menyampaikan idea dengan cara yang sederhana jelas, padu dan teratur.	Menyampaikan idea dengan cara yang kurang jelas, padu dan teratur.	Menyampaikan idea dengan cara yang tidak jelas, padu dan teratur.			
8. Peluang keusahawanan [CLO 3]	Mengupayakan idea menjadi peluang mengikut strategi perniagaan dan memenuhi kehendak / keperluan pelanggan.	Idea perniagaan adalah jelas dan memenuhi kehendak / keperluan pelanggan.	Idea perniagaan adalah jelas tetapi tidak memenuhi kehendak / keperluan pelanggan.	Mempunyai idea penambahan nilai / penyelesaian masalah yang tidak jelas dan tidak relevan dengan kehendak / keperluan pelanggan.	Tiada idea untuk penambahan nilai / penyelesaian masalah / kehendak / keperluan pelanggan.			
Total Score (10)								

LD 9: LEADERSHIP AND TEAMWORK SKILLS

Aspects	Score					Student Score		
	5	4	3	2	1	S1	S2	S3
9. Kepimpinan Berkesan [CLO 3]	Mempamerkan bukti jelas kebolehan memimpin anggota kumpulan dengan berkesan dalam mencapai objektif.	Boleh memimpin anggota kumpulan sehingga projek mencapai objektif dengan berkesan	Boleh memimpin anggota kumpulan sehingga projek mencapai objektif dengan berkesan yang baik dan memerlukan sedikit penambahbaikan.	Boleh memimpin anggota kumpulan sehingga projek mencapai objektif tetapi dengan kesan yang terhad dan memerlukan penambahbaikan.	Tiada bukti jelas kebolehan memimpin anggota kumpulan secara berkesan dalam mencapai objektif.			
10. Menghormati dan Menerima Pendapat [CLO 3]	Menghormati dan menerima dengan sangat baik pendapat ahli kumpulan bagi mencapai objektif.	Menghormati dan menerima dengan baik pendapat ahli kumpulan bagi mencapai objektif.	Menghormati dan menerima pendapat ahli kumpulan bagi mencapai objektif.	Kurang menghormati dan menerima pendapat ahli kumpulan alam mencapai objektif kumpulan.	Tidak menunjukkan rasa hormat dan tidak menerima pendapat anggota kumpulan sehingga menimbulkan konflik.			
Total Score (10)								

i. Proposal Guidelines

Table 3.0 : Proposal Guidelines

No	Topic / Chapter	Description
1.0	Introduction	Always clearly explains the project to be undertaken.
2.0	Problem Statement	Always clearly explains the problems.
3.0	Objectives	The main objective is very clear during first submission.
4.0	Scope	Always clearly clarify system scope and user scope.
5.0	Project Significance (cannot be measured)	Excellent explanation of the project significance.
6.0	Literature Review	The study carried out very clearly describes related evidence.
7.0	Methodology	Methodology associated with building projects.
8.0	References	References are significant to project and very organized with well-constructed using APA format.
9.0	Gantt Chart	Chart is accurate based on project schedule.
10.0	Cost Planning	The project is proposed with an excellent cost planning.
11.0	Conclusion	Student concludes the presentation confidently

DIPLOMA IN INFORMATION TECHNOLOGY (DIGITAL TECHNOLOGY)

AN IMPLEMENTATION OF IPV6 IN WIRELESS NETWORK ENVIRONMENT

GROUP MEMBERS

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MAS AYU BINTI MOHD ARIFF	25DDT16F1002
RUZANNA BINTI ABU BAKAR	25DDT16F1003

SUPERVISOR

ZALEHA BINTI SALAMON

SESSION : DECEMBER 2018

iii. Task Summaries

Table 4.0: Task Summaries

TASK		
No	Person In Charge	Task Description
1.	Student 1	- State all the tasks has been in charged by Student 1
2.	Student 2	- State all the tasks has been in charged by Student 2
3.	Student 3	- State all the tasks has been in charged by Student 3

*** Task summaries are based on allocating project scopes among group members.*

Verified by :

.....

(SUPERVISOR NAME)

iv. Testing

Table 5.0 : Unit Testing Plan (UTP)

UNIT TESTING PLAN (UTP)						
No.	Test Case Name	Test Procedure	Pre-condition	Expected Result	Tester	Result (Pass / Failure)
1.	Login	User is required to fill the username and password field before access the system	User need to register or sign up before login.	+ case Prompt notification successful login!	Adriana	Pass
2.						

*Expected result will be based on the test name procedure.

Table 6.0 : Integration Testing Plan (ITP)

INTEGRATION TESTING PLAN (ITP)						
No.	Test Case Name	Test Procedure	Pre-condition	Expected Result	Tester	Result (Pass / Failure)
1.	Login	User is required to click submit button.	None	User will directly go to homepage system after login.	Adriana	Pass
2.						

*Expected result will be based on the test name procedure.

Table 7.0 : User Acceptance Testing (UAT)

USER ACCEPTANCE TESTING (UAT)						
No.	Test Case Name	Acceptance Requirement	Test Result		Tester	Comments
			Pass	Fail		
1.	Login	User is required to fill in the username and password before access the system	Pass		Fifdil	(Comments are given by a client)
2.						

*Expected result will be based on the test name procedure.

v. Compliance and Auditing / Checklist Form

Table 8.0: Server Vulnerability & Handling

SERVER VULNERABILITY & HANDLING			
No	Remarks	Yes	No
1.	Do you used automated tools to assess system vulnerabilities	√	
2.			

** Subtitle and remarks are depends on type of project.*

vi. References

Book

Barnard, R., de Luca, R., & Li, J. (2015). First-year undergraduate students' perceptions of lecturer and peer feedback: A New Zealand action research project. *Studies In Higher Education*, 40(5), 933-944. <https://doi.org/10.1080/03075079.2014.881343>

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Miller, L. (2008). *Careers for nature lovers & other outdoor types*. Retrieve from <http://www.ebscohost.com>

Website

Nafees, Q., Yilong, Y., Andras, N., Zhiming, L., & Janos, S. (2014, November 19). Anonymously analyzing clinical data sets. Retrieve from <http://arxiv.org/abs/1501.05916>

Magazine

Jackson, P. (2011, March 1). Navy Yard Hill and the founding of Washington City. *Capitol Hill Historian*, 2, 5-9. <https://doi.org/10.1068/20113>

Journal

Dumais, S. A., Rizzuto, T. E., Cleary, J., & Dowden, L. (2013). Stressors and supports for adult online learners: Comparing first- and continuing-generation college students. *American Journal of Distance Education*, 27(2), 100-110. <https://doi.org/10.1080/08923647.2013.783265>

Streaming Video

Heffernan, M. (2015, May). Margaret Heffernan: Why it's time to forget the pecking order at work [video file]. Retrieved from https://www.ted.com/talks/margaret_heffernan_why_it_s_time_to_forget_the_pecking_order_at_work

Interview

Cloyd, A. (2018, July 29). Personal Interview.



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