UMS
UNIVERSITI MALAYSIA SABAH

FACULTY OF COMPUTING & INFORMATICS
FAKULTI KOMPUTERAN DAN INFORMATIK

FINAL YEAR PROJECT

(INFORMATION TECHNOLOGY)

INFORMATION BOOKLET

IN

PREPARING AND SUBMITTING OF

"**RESEARCH EMBEDDED PRODUCT BASED PROJECT**"

FACULTY OF COMPUTING AND INFORMATICS

UNIVERSITY MALAYSIA SABAH

LABUAN INTERNATIONAL CAMPUS

YEAR 2020 – CURRENT

Booklet Revised Dates

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1. Introduction

This booklet aims to provide you with information about the entire FYP process from the beginning to the end. It is essentially a must-be-in-your-beg book, so do not lose it!

This document aims to guide final year undergraduate students in the Faculty of Computing and Informatics Labuan going through the Final Year Project (FYP) process. It contains information on the project stages, elements needed when choosing the "research embedded product-based project", when reports are due, and most importantly, how to write concise and legible documents with good literary style, presentation and layout. It is important to note that each report must be unique. Remember that irrelevant information and trivial statements are of no value. It is important not to underestimate the amount of time it takes to write the report.

FYP allows you to demonstrate your original thoughts in identifying a research question and executing the subsequent investigation. Secondly, the FYP provides you with an opportunity to work closely with a member of the faculty – this mentoring process is both unusual and highly valuable in the context of undergraduate education. Thirdly, the FYP enables you to make an informed decision about your suitability for postgraduate studies. Finally, it is an opportunity to demonstrate to future employers that you have the essential skills they require in the workplace.

1.1 Difficulties in Progressing Project

Your Supervisor must be the first person to contact if you have any difficulties or concerns about the way the Project is going. These difficulties or concerns should be raised when you meet your Supervisor and should be recorded in your logbook (on your own initiative) and should be highlighted in meetings with your appointed consultants. Normally these difficulties or concerns will be satisfactorily resolved by joint action by yourself and your Supervisor. If after following all the procedures, the difficulties or concerns remain unresolved you should contact the Head of Program for advice.

1.2 Plagiarism

We value originality and creativity in your work. The Final Year Project report is the work of individual student. Plagiarism of any kind will not be tolerated. A Turnitin report must be submitted with the Final Year Project Report. More details on Turnitin are available in the Library.

2. Project Criteria and Scope

2.1 Project Criteria

Below are the criteria for a Research Embed Product-based Project:

i. A proposed project should include both the **research element** and **product development** in the project.
   a. The **Research Elements** refers to:
      i. Literature Review Analysis
      ii. Preliminary Studies (design, pilot test)
      iii. Evaluations (testing)
   b. **Product Development** refers to:
      i. Implementation
      ii. Testing

ii. Product Development under the "Information Technology" Program includes but not limited to the following:
   a. Web/System Applications
   b. Mobile Applications
   c. Multimedia Applications
   d. IOT Applications
   e. AR/VR Applications

iii. In general, **ALL** web/system and mobile application projects must be an online/network system. Stand-alone system can be accepted subjected to approval from FYP committee, the supervisor, and consultants/examiners.

iv. Content Management System (CMS) application is allowed only on the front-end design (covers) user interfaces and templates. Students still requires to develop back-end functions from scratch (no existing templates allowed for this process).

v. In preparing your thesis refer to the "Garis Panduan Gaya Penulisan UMS". The link to the URL is attached in the APPENDIX.

vi. It is compulsory to use reference generator tool such as Endnote or Mendeley for report referencing style.

2.2 Project Scope

i. Each project should be:
   a. A complete product such as a complete interface and database that can be used by target end-users **OR**
   b. A sub-section for studied area (i.e., to study precision of…)

2.3 Topic Selection

i. Student(s) are welcome to suggest any appropriate project within the scope of the category **OR**
ii. Choose a project suggested by the Supervisor.
iii. However, the selection of projects is based on the agreement of both the student and the supervisor.

2.4 Supervisor Selection

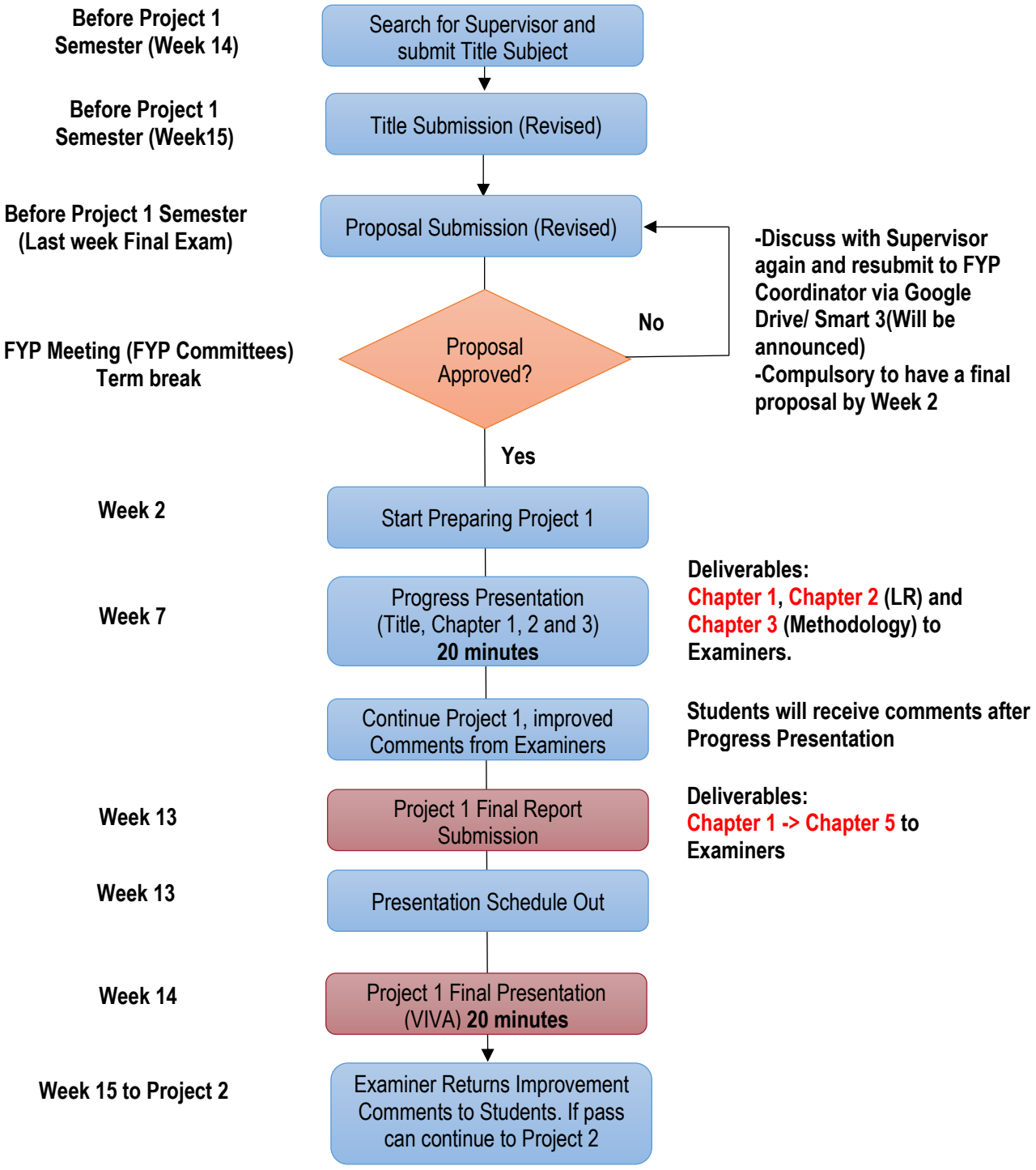
i. Students are allowed to choose any available/active supervisor in the current semester. (list of supervisor will be posted)
ii. Each supervisor has a supervisory quota.
iii. Each quota depends on the overall teaching workload of the current semester.
iv. Students are advised to meet and discuss with the potential supervisor in order to obtain the consent of the supervisor.
v. The final selection of supervisors is, however, through a proposal evaluation meeting at the faculty level.

2.5 Policies

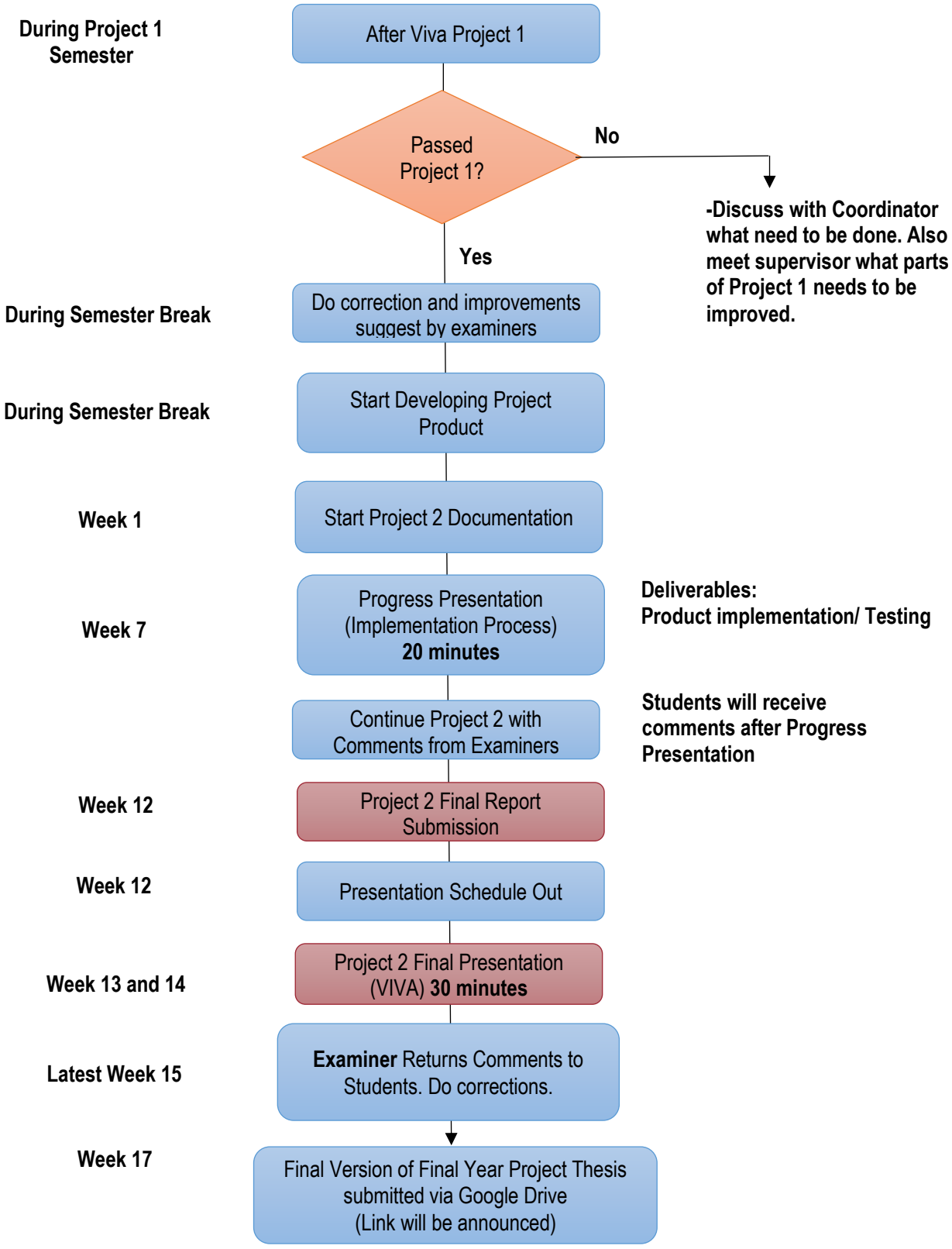
i. Students who **FAIL** to submit their Project 1 report on the specified due date are not allowed to attend viva (week 14 presentation) and will be given grade, "F".
ii. Students who fail to submit their Project (1 and 2) thesis are not allowed to attend the viva and will be given a fail grade, "F".
iii. During viva;
    a. ALL objectives stated in the thesis must be achieved.
    b. Students must achieve the required quality of work as stipulated by the examining committee.
    c. Students who fail to attend the viva session without a valid reason will be given a fail grade, "F".
iv. Students with a plagiarised Report/Thesis or Product will be given a fail grade, "E".
v. Students must have sufficient academic discussion/ meetings with their supervisor at least **SIX** times in a semester.
vi. As Project I and Project II are continuous, changing title and objectives of your Project is subjected to the approval of Final Year Project Committee.

3. Project Phases and Consultation

3.1 Timeline Project 1



3.2 Timeline Project 2



3.3 Deliverables

3.3.1 Progress Presentation (Week 7)

i. By week 7 for both Project 1 and Project 2, students are to present their progress using appropriate mediums such as slide, prototype demo and etc.
ii. The progress presentation for both Project 1 and 2 will take 20 minutes (15 minutes Presentation and 5 minutes for Q&A).
iii. Students should be early 10 minutes before time.
iv. For Project 1 progress presentation, students are expected to show progress until Methodology.
v. While for Project 2 progress presentation, students are expected to show progress up until Product Implementation.

3.3.2 Report and Poster Presentation

i. For Project 1, by week 12 students are required to submit their report only.
ii. While in Project 2 week 12, students are required to submit their report and poster presentation.
iii. The report contents (suggestion) for both Project 1 and Project 2 can be seen in section 4.1 and 4.2 respectively.
iv. As for the poster presentation it should be sent in an A3 Size image. There is no specific template for the poster but it should be able to present your whole FYP Project. Include

3.3.3 Final Presentation (Week14)

i. By week 14 for both Project 1 and Project 2, students are to present their final presentation using appropriate mediums such as slide, prototype demo, results and etc.
ii. The final presentation will take 20 minutes for Project 1 (15 minutes Presentation and 5 minutes for Q&A) and 30 minutes for Project 2 (20 minutes Presentation and 10 minutes for Q&A).
iii. Students should be early 10 minutes before.
iv. For Project 1 final presentation, students are expected to demonstrate their whole Project 1 outputs (See section 4.1).
v. While for Project 2 final presentation, students are expected to demonstrate their whole Project 1 and 2 outputs (See section 4.2)

3.3.4 Final Version Report and Poster (Week17)

i. For Project 2, by week 17 and after the final presentation week, students are required to submit their final report and poster presentation version to the appropriate cloud drive that will be provided by the Coordinator.
ii. Every submission should include files as below:

a. Report in .pdf format
b. Report in .doc format
c. Poster presentation in .jpeg
d. Poster presentation in .psd (or in any raw format)
e. Product folder (this is all your coding file, SQL files, webpages and etc). If the files are too large students should contact the coordinator.
f. User Manual for the Product folder (explain how to setup it up in another PC)

iii. When submitting the files into the cloud drive, submit them under your respective program (HC12 or HC13). Create a folder and name it as; studentidname, for example; BI171101XXAhmad.

4. Report Writing Guidelines

4.1 Project 1 Content Arrangement

Below is the suggested content arrangement for **Project 1.**

Title Page	
Declaration (refer to the Gaya UMS)	
Acknowledgments	
Abstrak (Malay Translation)- *italicized*	
Abstract (English Version)	
Table of Content	
List of Tables	
List of Figures	
List of Abbreviations	
List of Symbols	
	Chapter 1 : INTRODUCTION
1.1	Introduction
1.2	Problem Statement
1.3	Project Goal
1.4	Project Objectives
1.5	Project Scope
1.6	Target User
1.7	Project Framework
1.8	Project Timeline
1.9	Chapter Conclusion
	CHAPTER 2 : LITERATURE REVIEW
2.1	Introduction
2.2	Subheading (e.g.; Literature review on topic)
2.3	Subheading (e.g.; Application Review)
2.4	Chapter Conclusion
	CHAPTER 3 : METHODOLOGY AND ANALYSIS
3.1	Introduction
3.2	Subheading (e.g.; Development Method)
3.3	Subheading (e.g.; Data Analysis)
3.4	Chapter Conclusion
	CHAPTER 4 : DESIGN/FRAMEWORK
4.1	Introduction

4.2	Subheading (e.g. System: ERD, DFD, Diagram 0,… etc) (e.g. Multimedia application: Content Design, Navigational Flow, Interface Design..etc)
4.3	Subheading (Preliminary results)
4.5	Chapter Conclusion
	CHAPTER 5 : CONCLUSION
5.1	Introduction
5.2	Subheading (e.g.; Findings and Conclusion)
5.3	Chapter Conclusion
REFERENCES	
APPENDICES	
A. Student's Log Book	
B. Turnitin Report (not > than 30%)	

4.2 Project 2 Content Arrangement

Below is the suggested content arrangement for **Project 2**.

Title Page	
Declaration (refer to the Gaya UMS)	
Acknowledgments	
Abstrak (Malay Translation)- *italicized*	
Abstract (English Version)	
Table of Content	
List of Tables	
List of Figures	
List of Abbreviations	
List of Symbols	
	Chapter 1 : INTRODUCTION
1.1	Introduction
1.2	Problem Statement
1.3	Project Goal
1.4	Project Objectives
1.5	Project Scope
1.6	Target User
1.7	Project Framework
1.8	Project Timeline
1.9	Chapter Conclusion
	CHAPTER 2 : LITERATURE REVIEW
2.1	Introduction
2.2	Subheading (e.g.; Literature review on topic)
2.3	Subheading (e.g.; Application Review)
2.4	Chapter Conclusion
	CHAPTER 3 : METHODOLOGY AND ANALYSIS
3.1	Introduction
3.2	Subheading (e.g.; Development Method)
3.3	Subheading (e.g.; Data Analysis)
3.4	Chapter Conclusion
	CHAPTER 4 : DESIGN/FRAMEWORK
4.1	Introduction
4.2	Subheading (e.g. System: ERD, DFD, Diagram 0,… etc) (e.g. Multimedia application: Content Design, Navigational Flow, Interface Design..etc)
4.3	Subheading (Preliminary results)

4.5	Chapter Conclusion
	CHAPTER 5 : IMPLEMENTATION
5.1	Introduction
5.2	Subheading (e.g.; System/ Application Implementation)
5.3	Chapter Conclusion
	CHAPTER 6 : FINDING AND DISCUSSION
6.1	Introduction
6.2	Subheading (e.g.; Findings from your testing results)
6.3	Subheading (e.g.; Discussion)
6.4	Chapter Conclusion
	CHAPTER 7 : CONCLUSION
7.1	Introduction
7.2	Subheading (e.g.; Project Strength/ Limitation)
7.3	Subheading (e.g.; Project Future Work)
7.4	Chapter Conclusion
REFERENCES	
APPENDICES	
A. Student's Log Book	
B. Turnitin Report (not > than 30%)	

5. Assessments

5.1 Project 1 Overall Evaluation

FYP1				
Supervisor	**Week7**	**Week14**	**Total**	
Report	10	15	25	**40%**
Prototype/Preliminary Results		5	5	
Consultation/Logbook	5	5	10	
Examiner 1				
Report		15	15	**30%**
Prototype/Preliminary Results		5	5	
Presentation	5	5	10	
Examiner 2				
Progress Submission				**30%**
Report		15	15	
Prototype/Preliminary Results		5	5	
Presentation	5	5	10	
				100%

5.2 Project 2 Overall Evaluation

FYP2				
Supervisor	**Week 7**	**Week 14**	**Total**	
Report	5	10	15	**40%**
Implementation/Simulation Tools/ Experiment	5	10	15	
Consultation/Logbook	2.5	2.5	5	
Poster [OR Report Summary -TBA]		5	5	
Examiner 1				
Report		10	10	**30%**
Demonstration/ Implementation	5	10	15	
Presentation	2.5	2.5	5	
Examiner 2				
Report		10	10	
Demonstration/ Implementation	5	10	15	
Presentation	2.5	2.5	5	
				100%

5.3 Project 1 Rubrics: Supervisor

5.3.1 SV PROJECT 1 CONSULTATION/LOGBOOK (EFFORT AND INITIATIVE): WEEK 7 (5%) and WEEK 14 (5%)

	Excellent (10 - 9)	Good (8 - 6)	Average (5 - 3)	Poor (2 - 0)		
Effort	Independently develops challenging goals/targets/plans and sustains strong commitment to them. Highly motivated and gives maximal effort. Shows considerable diligence and independence in tackling problems encountered. Views difficulties that arose as opportunities to strengthen understanding.	Accepts complete responsibility for developing goals/targets/plans with good commitment. Demonstrates consistent effort. Diligent and shows some independence in tackling problems encountered. Demonstrates perseverance when difficulties arose or when a solution was not immediately obvious.	Demonstrates some responsibility for setting goals/targets and planning. Demonstrates effort when prompted. Diligent but does not exert more effort when difficulties arose.	Seldom attends meetings with supervisor. Must be reminded to stay on tasks. Demonstrates minimal effort and diligence. Makes excuses for not carrying out work. Stopped working when difficulties arose. Meetings with supervisor are intermittent and irregular. Comes unprepared for meetings.	**10**	
Initiative	Shows considerable initiative and self-direction. Identifies problems to solve. Approaches new learning situations and challenges with a positive, enthusiastic and confident attitude. Constantly explores and independently generates relevant questions for further inquiry.	Generally shows initiative and self-direction. Demonstrates an attitude towards learning and approaches challenges with some confidence. Explores and generates some questions for further inquiry. Shows good motivation for all activities. Independent in solving problems.	Shows initiative and self-direction in limited ways. Approaches new learning situations and challenges with limited confidence. Shows some interest and sometimes generates questions for further inquiry when prompted. Some guidance needed in solving problems.	Lack resourcefulness and hardly shows initiative and self-direction. Displays considerable lack of confidence and motivation. Generates questions for further inquiry reluctantly and only with assistance and direct supervision.	**10**	
TOTAL					**20** **/20**	**5** **/5**

5.3.2 SV PROJECT 1 REPORT: WEEK 7 (10%)

	Exemplary (10 -7)	Accomplished (6 -4)	Poor (3 - 0)	X			
Title 5%	All required information is included (e.g. Research element). No extraneous information is included.	All required information is included (e.g. Research element). Some extraneous information is included.	Some required information is missing (e.g. Research element). Extraneous information is included.	No Submission	**10**	**5**	
Introduction/ Background 10%	Introduction clearly defines the scope of research being presented.	Introduction defines a scope of research that is fairly clear and delineated.	Introduction doesn't adequately set up scope of research.	No Submission	**10**	**10**	
Problem Statement 10%	The problem statement is clear and thorough.	The problem statement is ambiguous or misses critical unknowns.	The problem statement is not included.	No Submission	**10**	**10**	
Objectives 10%	Objective of the project are clearly stated with proper design specifications.	Objective of the project are clearly stated;	Objectives of the project are either not identified or not well defined; Incomplete and improper specification.	No Submission	**10**	**10**	
Literature Review 35%	Clear analysis of each article and its significance. It is clear that the paper is discussing sources and not expressing personal thought. Articles are well synthesized.	Basic reporting of the articles with a small amount of analysis. In most cases, is it not clear that the paper is discussing sources and not expressing personal thought? Contains a little synthesis but not in sufficient dept.	Basic reporting with no analysis. Throughout the paper, it was not clear whether or not the thoughts were personal opinion or pulled from the sources. No synthesis.	No Submission	**10**	**35**	
Methodology 20%	Clear methodology.	Insufficient Methodology description.	No Methodology.	No Submission	**10**	**20**	

Logical flow of Ideas 5%	The reader is guided smoothly through the logical arranged chapter.	The overall arrangement is logical but is occasionally difficult to follow.	The arrangement of content is haphazard and difficult to follow.	No Submission	**10**	**5**	
Formatting and Language. 5%	Formatting adheres to general APA standards. Language shows appropriate formal and consistent throughout. A few or no errors in grammar.	Formatting is somewhat correct but still contains several errors in APA standards. Language contains inconsistencies in tense of voice. Contains several errors in grammar.	Show little to no understanding of APA formatting. Language is not correct in tense or voice. Many errors in grammar.	No Submission	**10**	**5**	
TOTAL					**80**	**100**	**10**
					/8	**/100**	**/10**

5.3.3 SV PROJECT 1 REPORT: WEEK 14 (15%)

	Excellent (25 - 20)	**Good (19 -13)**	**Average (12 - 6)**	**Poor (5 - 0)**	**X**			
Abstract (5%)	Abstract strongly represented the student's research project. Clearly supported topic presented and contained important points.	Abstract adequately presented student's research project. More information would have been beneficial.	Somewhat able to see connection of abstract to research project. Abstract did not contain sufficient information	Unable to clearly connect abstract to research project.	No Submission	**25**	**5**	
Introduction & clarity of & conciseness of project objectives (15%)	The title/topic, scope and objectives of the dissertation are innovative and original. They are clearly defined, contextualised and scientifically grounded.	The title/topic, scope and objectives of the dissertation are adequately defined. Most of the objectives are scientifically grounded and there is a high degree of originality.	The title/topic, scope and objectives of the dissertation are defined. Some objectives are scientifically grounded, but lack originality.	Although the title/topic, scope and objectives of the dissertation are defined, they are inadequately contextualised, with limited evidence that they are scientifically grounded. Little or no originality.	No Submission	**25**	**15**	

Quality and relevant of literature review (25%)	Excellent knowledge, coverage, interpretation and application of the relevant literature.	Adequate knowledge interpretation and application of the relevant literature.	Adequate knowledge of the relevant literature. Minor shortcomings in the interpretation and application of the literature.	A basic overview of the literature, with limited interpretation and application.	No Submission	**25**	**25**	
Clarity of methodology (25%)	Excellent knowledge, coverage, interpretation and application of research methodology, techniques and analysis.	Demonstrates effective application of relevant research methodology, techniques and analysis.	Good organisation and application of research methodology.	Satisfactory understanding of the significance of the research methodology.	No Submission	**25**	**25**	
Clarity of design/framework (15%)	Disciplined, well thought out investigation/design method; justification for research/design method used.	The research/ design method is adequate.	The research/ design method is somewhat adequate.	Appropriateness of research/ design or investigative method is questionable.	No Submission	**25**	**15**	
Significance of the Conclusion (5%)	The conclusions are logical and valid and show a strong awareness of the authoritative published literature. The final summary is relevant and communicates the purpose and findings of the study in clearly understandable terms.	The conclusions are logical and valid. The conclusions are communicated clearly and, where applicable, they are linked/ related to existing beliefs. The final summary communicates the purpose and findings of the study.	The conclusions are partially logical and/or valid. They are communicated clearly. The final summary only partially communicates the purpose and findings of the study.	The conclusions are not in all respects logical and valid. They are communicated with only partial success. The final summary does not communicate the purpose and findings of the study.	No Submission	**25**	**5**	
Adherence to the report format & Citation of references, figures, tables and illustration in the text (5%)	The writing style and layout of the dissertation are of very high quality. The referencing has been done in a proper and extensive manner. The format and layout of the bibliography are correct and in line with internationally acceptable conventions. The bibliography contains the most important and most recent sources.	The writing style and layout of the dissertation are of acceptable quality. The referencing has been done in a proper manner and the layout of the bibliography is largely in line with internationally acceptable conventions. There are, however, a number of inconsistencies. The bibliography includes most of the important sources.	The writing style and layout of the dissertation require attention. The referencing has been done, but the layout of the bibliography is neither consistent nor in line with internationally acceptable conventions. Some important and very relevant sources have been omitted.	The writing style and layout of the dissertation require serious attention, Referencing is not in line with the standard conventions in terms of format and layout. Numerous important as well as relevant sources have been omitted.	No Submission	**25**	**5**	

Quality of Language (5%)	There are no or extremely few linguistic and typographical errors, and almost no rectifications are required.	There are less important omissions and linguistic and/or typographical errors. Editing would improve the text.	There are omissions and linguistic and/or typographical errors. Editing/revision would improve the work and errors should definitely be rectified.	There are numerous linguistic and typographical mistakes. These errors should definitely be rectified	No Submission	**25**	**5**	
TOTAL						**200**	**100**	**15**
						/200	**/100**	**/15**

5.3.4 SV PROJECT 1 PROTOTYPE/ PRELIMINARY RESULTS: WEEK14 (5%)

	Excellent (10 - 9)	**Good (8 - 6)**	**Average (5 - 3)**	**Poor (2 - 0)**		
Prototype/Preliminary Results **(Demonstration of preliminary implementation/experiment)**	Demonstrate strong capability to perform independent/innovative work; ability to make effective use of tools is evident.	Demonstrate sufficient ability to perform independent/innovative work; able to make good use of tools.	Some demonstration of independent/innovative work; unable to make effective use of relevant tools.	Minimum demonstration of independent/innovative works; only beginning to understand the tools required for the project.	**10**	
TOTAL					**10**	**5**
					/10	**/5**

5.4 Project 1 Rubrics: Examiner

5.4.1 EX PROJECT 1 PRESENTATION: WEEK 7 (5%)

	Excellent (10 - 9)	Good (8 - 6)	Average (5 - 3)	Poor (2 - 0)		
Presentation **(Presents ideas clearly and concisely, understands the questions asked and is able to provide concise answers)**	Student confidence is noteworthy. Builds trust & holds attention by direct eye contact & natural & gesture adapted to the content. Understands questions asked quickly and provides relevant and detail answers.	Student confidence is good. Holds attention by fairly consistent use of direct eye contact with audience. Understands the questions asked and is able to provide concise answers in most cases.	Student confidence is ok. Only focuses on one part of the audience. Does not scan audience. Able to answer questions asked, but with some difficulties.	Student lacks confidence. Does not attempt to look at audience at all. Reads notes or looks at computer screen only. Unable to provide answers to many questions asked	**10**	
TOTAL					**10** **/10**	**5** **/5**

5.4.2 EX PROJECT 1 REPORT: WEEK 14 (15%)

	Excellent (25 - 20)	Good (19 -13)	Average (12 - 6)	Poor (5 - 0)	X			
Abstract (5%)	Abstract strongly represented the student's research project. Clearly supported topic presented and contained important points.	Abstract adequately presented student's research project. More information would have been beneficial.	Somewhat able to see connection of abstract to research project. Abstract did not contain sufficient information	Unable to clearly connect abstract to research project.	No Submission	**25**	**5**	
Introduction & clarity of & conciseness of project objectives (15%)	The title/topic, scope and objectives of the dissertation are innovative and original. They are clearly defined, contextualised and scientifically grounded.	The title/topic, scope and objectives of the dissertation are adequately defined. Most of the objectives are scientifically grounded and there is a high degree of originality.	The title/topic, scope and objectives of the dissertation are defined. Some objectives are scientifically grounded, but lack originality.	Although the title/topic, scope and objectives of the dissertation are defined, they are inadequately contextualised, with limited evidence that they are scientifically grounded. Little or no originality.	No Submission	**25**	**15**	

Quality and relevant of literature review (25%)	Excellent knowledge, coverage, interpretation and application of the relevant literature.	Adequate knowledge interpretation and application of the relevant literature.	Adequate knowledge of the relevant literature. Minor shortcomings in the interpretation and application of the literature.	A basic overview of the literature, with limited interpretation and application.	No Submission	**25**	**25**	
Clarity of methodology (25%)	Excellent knowledge, coverage, interpretation and application of research methodology, techniques and analysis.	Demonstrates effective application of relevant research methodology, techniques and analysis.	Good organisation and application of research methodology.	Satisfactory understanding of the significance of the research methodology.	No Submission	**25**	**25**	
Clarity of design/framework (15%)	Disciplined, well thought out investigation/design method; justification for research/design method used.	The research/ design method is adequate.	The research/ design method is somewhat adequate.	Appropriateness of research/ design or investigative method is questionable.	No Submission	**25**	**15**	
Significance of the Conclusion (5%)	The conclusions are logical and valid and show a strong awareness of the authoritative published literature. The final summary is relevant and communicates the purpose and findings of the study in clearly understandable terms.	The conclusions are logical and valid. The conclusions are communicated clearly and, where applicable, they are linked/ related to existing beliefs. The final summary communicates the purpose and findings of the study.	The conclusions are partially logical and/or valid. They are communicated clearly. The final summary only partially communicates the purpose and findings of the study.	The conclusions are not in all respects logical and valid. They are communicated with only partial success. The final summary does not communicate the purpose and findings of the study.	No Submission	**25**	**5**	
Adherence to the report format & Citation of references, figures, tables and illustration in the text (5%)	The writing style and layout of the dissertation are of very high quality. The referencing has been done in a proper and extensive manner. The format and layout of the bibliography are correct and in line with internationally acceptable conventions. The bibliography contains the most important and most recent sources.	The writing style and layout of the dissertation are of acceptable quality. The referencing has been done in a proper manner and the layout of the bibliography is largely in line with internationally acceptable conventions. There are, however, a number of inconsistencies. The bibliography includes most of the important sources.	The writing style and layout of the dissertation require attention. The referencing has been done, but the layout of the bibliography is neither consistent nor in line with internationally acceptable conventions. Some important and very relevant sources have been omitted.	The writing style and layout of the dissertation require serious attention, Referencing is not in line with the standard conventions in terms of format and layout. Numerous important as well as relevant sources have been omitted.	No Submission	**25**	**5**	

Quality of Language (5%)	There are no or extremely few linguistic and typographical errors, and almost no rectifications are required.	There are less important omissions and linguistic and/or typographical errors. Editing would improve the text.	There are omissions and linguistic and/or typographical errors. Editing/revision would improve the work and errors should definitely be rectified.	There are numerous linguistic and typographical mistakes. These errors should definitely be rectified	No Submission	**25**	**5**	
TOTAL						**200**	**100**	**15**
						/200	**/100**	**/15**

5.4.3 EX PROJECT 1 PROTOTYPE/ PRELIMINARY RESULTS: WEEK 14 (5%)

	Excellent (10 - 9)	Good (8 - 6)	Average (5 - 3)	Poor (2 - 0)		
Prototype/Preliminary Results **(Demonstration of preliminary implementation/experiment)**	Demonstrate strong capability to perform independent/innovative work; ability to make effective use of tools is evident.	Demonstrate sufficient ability to perform independent/innovative work; able to make good use of tools.	Some demonstration of independent/innovative work; unable to make effective use of relevant tools.	Minimum demonstration of independent/innovative works; only beginning to understand the tools required for the project.	**10**	
TOTAL					**10**	**5**
					/10	**/5**

5.4.4 EX PROJECT 1 PRESENTATION: WEEK 14 (5%)

	Excellent (10 - 9)	**Good (8 - 6)**	**Average (5 - 3)**	**Poor (2 - 0)**		
Presentation **(Presents ideas clearly and concisely, understands the questions asked and is able to provide concise answers)**	Student confidence is noteworthy. Builds trust & holds attention by direct eye contact & natural & gesture adapted to the content. Understands questions asked quickly and provides relevant and detail answers.	Student confidence is good. Holds attention by fairly consistent use of direct eye contact with audience. Understands the questions asked and is able to provide concise answers in most cases.	Student confidence is ok. Only focuses on one part of the audience. Does not scan audience. Able to answer questions asked, but with some difficulties.	Student lacks confidence. Does not attempt to look at audience at all. Reads notes or looks at computer screen only. Unable to provide answers to many questions asked	**10**	
TOTAL					**10**	**5**
					/10	**/5**

5.5 Project 2 Rubrics: Supervisor

5.5.1 SV PROJECT 2 CONSULTATION/LOGBOOK (EFFORT AND INITIATIVE): WEEK 7 (2.5%) and WEEK 14 (2.5%)

	Excellent (10 - 9)	Good (8 - 6)	Average (5 - 3)	Poor (2 - 0)		
Effort	Independently develops challenging goals/targets/plans and sustains strong commitment to them. Highly motivated and gives maximal effort. Shows considerable diligence and independence in tackling problems encountered. Views difficulties that arose as opportunities to strengthen understanding.	Accepts complete responsibility for developing goals/targets/plans with good commitment. Demonstrates consistent effort. Diligent and shows some independence in tackling problems encountered. Demonstrates perseverance when difficulties arose or when a solution was not immediately obvious.	Demonstrates some responsibility for setting goals/targets and planning. Demonstrates effort when prompted. Diligent but does not exert more effort when difficulties arose.	Seldom attends meetings with supervisor. Must be reminded to stay on tasks. Demonstrates minimal effort and diligence. Makes excuses for not carrying out work. Stopped working when difficulties arose. Meetings with supervisor are intermittent and irregular. Comes unprepared for meetings.	**10**	
Initiative	Shows considerable initiative and self-direction. Identifies problems to solve. Approaches new learning situations and challenges with a positive, enthusiastic and confident attitude. Constantly explores and independently generates relevant questions for further inquiry.	Generally shows initiative and self-direction. Demonstrates an attitude towards learning and approaches challenges with some confidence. Explores and generates some questions for further inquiry. Shows good motivation for all activities. Independent in solving problems.	Shows initiative and self-direction in limited ways. Approaches new learning situations and challenges with limited confidence. Shows some interest and sometimes generates questions for further inquiry when prompted. Some guidance needed in solving problems.	Lack resourcefulness and hardly shows initiative and self-direction. Displays considerable lack of confidence and motivation. Generates questions for further inquiry reluctantly and only with assistance and direct supervision.	**10**	
TOTAL					**20** **/20**	**2.5** **/2.5**

5.5.2 SV PROJECT 2 REPORT: WEEK 7 (5%)

	Excellent (25 - 20)	Good (19 -13)	Average (12 - 6)	Poor (5 - 0)	X			
Introduction (10%)	The title/topic, scope and objectives of the dissertation are innovative and original. They are clearly defined, contextualised and scientifically grounded.	The title/topic, scope and objectives of the dissertation are adequately defined. Most of the objectives are scientifically grounded and there is a high degree of originality.	The title/topic, scope and objectives of the dissertation are defined. Some objectives are scientifically grounded, but lack originality.	Although the title/topic, scope and objectives of the dissertation are defined, they are inadequately contextualised, with limited evidence that they are scientifically grounded. Little or no originality.	No Submission	**25**	**10**	
Literature review (10%)	Excellent knowledge, coverage, interpretation and application of the relevant literature.	Adequate knowledge interpretation and application of the relevant literature.	Adequate knowledge of the relevant literature. Minor shortcomings in the interpretation and application of the literature.	A basic overview of the literature, with limited interpretation and application.	No Submission	**25**	**10**	
Methodology (10%)	Excellent knowledge, coverage, interpretation and application of research methodology, techniques and analysis.	Demonstrates effective application of relevant research methodology, techniques and analysis.	Good organisation and application of research methodology.	Satisfactory understanding of the significance of the research methodology.	No Submission	**25**	**10**	
Clarity of design/framework (10%)	Disciplined, well thought out investigation/design method; justification for research/design method used.	The research/ design method is adequate.	The research/ design method is somewhat adequate.	Appropriateness of research/ design or investigative method is questionable.	No Submission	**25**	**10**	
Implementation (50%)	The written of implementation and preliminary testing is well-documented and able to address problem statements, methodology, designs/proposed framework and complies all the project objectives. Conducted all different tests; bugs, strengths and performance are noted.	The written of implementation and preliminary testing is generally good. System is able to address problem statements, methodology, designs/proposed framework and complies most of the project objectives. Conducted most different tests; bugs are noted but strengths and performance not evident	The written of implementation and preliminary testing is readable, but requires some efforts. System is able to address several problem statements, methodology, designs/ proposed framework and complies some of the project objectives. Conducted some different tests; but notes about bugs and performance are not made.	The written of implementation and preliminary testing is unclear, difficult to read and under standard. System is not able to address problem statement and does not comply with the project objective. No testing indicated.	No Submission	**25**	**50**	

Report Quality (10%)	Written work is well organized and easy to understand. Spell-checked and proofread well. Writing style indicates planning that makes reading easy and flow of material makes understanding easy. Work presented is entirely relevant to the work performed.	Organization is generally good, but some parts seem out of place. A few spelling and grammatical errors. Writing style indicates planning that makes reading easy. Content is sufficient and largely relevant	Report is readable but requires some effort. Content is somewhat organized, but organization can be better. Contains relevant materials though more material can be included.	Unclear organization; frequent spelling and grammatical errors. Writing is disorganized and difficult to read and understand. Work presented is either trivial or not used in the work performed.	No Submission	**25**	**10**	
TOTAL						**150**	**100**	**5**
						/150	**/100**	**/5**

5.5.3 SV PROJECT 2 IMPLEMENTATION/SIMULATION TOOLS/ EXPERIMENT: WEEK 7 (5%) and Week 14 (10%)

	Excellent (10 - 9)	**Good (8 - 6)**	**Average (5 - 3)**	**Poor (2 - 0)**		
Implementation /Simulations/Experiment **Implementation - The assessment of system architecture (according to the DFD model), database (according to the ERD model), Interfaces (according to the interface design) or according to the proposed framework (30%)** **Demonstration of working model/concept and adherence to project objectives (30%)**	System/design/framework is well implemented/simulated/experimented, able to address problem statements, methodology, designs/proposed framework and complies most of the project objectives. Conducted several different tests of the code; bugs, strengths and performance are noted.	System//Simulations/Experiment is able to address problem statements, methodology, designs/proposed framework and complies most of the project objectives. Conducted several different tests of the code; bugs are noted but	System is able to address several problem statements, methodology, designs/ proposed framework and complies some of the project objectives. Conducted several different tests of the code; but notes	System is not able to address problem statement and does not comply with the project objective	**10**	
TOTAL					**10**	**5**
					/10	**/5**

5.5.4 SV PROJECT 2 REPORT: WEEK 14 (10%)

	Excellent (25 - 20)	Good (19 -13)	Average (12 - 6)	Poor (5 - 0)	X			
Abstract (5%)	Abstract strongly represented the student's research project. Clearly supported topic presented and contained important points.	Abstract adequately presented student's research project. More information would have been beneficial.	Somewhat able to see connection of abstract to research project. Abstract did not contain sufficient information	Unable to clearly connect abstract to research project.	No Submission	**25**	**5**	
Introduction (5%)	The title/topic, scope and objectives of the dissertation are innovative and original. They are clearly defined, contextualised and scientifically grounded.	The title/topic, scope and objectives of the dissertation are adequately defined. Most of the objectives are scientifically grounded and there is a high degree of originality.	The title/topic, scope and objectives of the dissertation are defined. Some objectives are scientifically grounded, but lack originality.	Although the title/topic, scope and objectives of the dissertation are defined, they are inadequately contextualised, with limited evidence that they are scientifically grounded. Little or no originality.	No Submission	**25**	**5**	
Literature review (5%)	Excellent knowledge, coverage, interpretation and application of the relevant literature.	Adequate knowledge interpretation and application of the relevant literature.	Adequate knowledge of the relevant literature. Minor shortcomings in the interpretation and application of the literature.	A basic overview of the literature, with limited interpretation and application.	No Submission	**25**	**5**	
Methodology (5%)	Excellent knowledge, coverage, interpretation and application of research methodology, techniques and analysis.	Demonstrates effective application of relevant research methodology, techniques and analysis.	Good organisation and application of research methodology.	Satisfactory understanding of the significance of the research methodology.	No Submission	**25**	**5**	
Clarity of design/framework (5%)	Disciplined, well thought out investigation/design method; justification for research/design method used.	The research/ design method is adequate.	The research/ design method is somewhat adequate.	Appropriateness of research/ design or investigative method is questionable.	No Submission	**25**	**5**	
Implementation (30%)	The written of implementation and preliminary testing is well-documented and able to address problem statements, methodology, designs/proposed framework and complies all the project objectives. Conducted all different	The written of implementation and preliminary testing is generally good. System is able to address problem statements, methodology, designs/proposed framework and complies most of the project objectives.	The written of implementation and preliminary testing is readable, but requires some efforts. System is able to address several problem statements, methodology, designs/ proposed framework and complies some of the project	The written of implementation and preliminary testing is unclear, difficult to read and under standard. System is not able to address problem statement and does not comply with the project objective.	No Submission	**25**	**30**	

	tests; bugs, strengths and performance are noted.	Conducted most different tests; bugs are noted but strengths and performance not evident	objectives. Conducted some different tests; but notes about bugs and performance are not made.	No testing indicated.				
Finding Analysis and Discussion (25%)	The finding analysis and discussion is well-presented and easy to understand	The finding analysis and discussion is generally good, but some parts seem out of place.	The finding analysis and discussion is readable but requires some effort.	The finding analysis and discussion is unclear, difficult to read and under standard.	No Submission	**25**	**25**	
Concluding remarks (10%) **Significance of the conclusion and final findings** **Future works**	The final summary is relevant and communicates the purpose and findings of the study in clearly understandable terms. Recommendations and future works where appropriable, are put forward together with the conclusions.	The final summary communicates the purpose and findings of the study. Recommendations and future works where appropriable, are put forward together with the conclusions.	The final summary only partially communicates the purpose and findings of the study. Recommendations and future works where appropriable, are put forward together with the conclusions.	The final summary does not communicate the purpose and findings of the study. No recommendations and future works are put forward together with the conclusions.	No Submission	**25**	**10**	
Report Quality (10%) **Written work is well organized and easy to understand, spell-checked and proofread well, work presented is entirely relevant to the work performed, information appropriately placed in either the main text or appendices.**	Written work is well organized and easy to understand. Spell-checked and proofread well. Writing style indicates planning that makes reading easy and flow of material makes understanding easy. Work presented is entirely relevant to the work performed.	Organization is generally good, but some parts seem out of place. A few spelling and grammatical errors. Writing style indicates planning that makes reading easy. Content is sufficient and largely relevant	Report is readable but requires some effort. Content is somewhat organized, but organization can be better. Contains relevant materials though more material can be included.	Unclear organization; frequent spelling and grammatical errors. Writing is disorganized and difficult to read and understand. Work presented is either trivial or not used in the work performed.	No Submission	**25**	**10**	
TOTAL						**225** **/225**	**100** **/100**	**10** **/10**

5.5.5 SV PROJECT 2 POSTER AND REPORT SUMMARY: WEEK 14 (5%)

	Excellent (10 - 9)	Good (8 - 6)	Average (5 - 3)	Poor (2 - 0)		
Presents project ideas, objectives, findings and contribution clearly and concisely,	The summary and poster is well-structured to present the ideas, objectives, findings/contributions clearly and concisely.	The summary and poster is structured in generally good to present the ideas, objectives, findings/contributions. Content is sufficient and largely relevant	The summary and poster is structured in readable structure to present the ideas, objectives, findings/contributions but requires some effort. Content is somewhat organized, but organization can be better. Contains relevant materials though more material can be included.	The summary and poster is Unclear organization; frequent spelling and grammatical errors. Article/poster is disorganized and difficult to read and understand. Work presented is either trivial or not used in the work performed.	**10**	
TOTAL					**10**	**5**
					/10	**/5**

5.6 Project 2 Rubrics: Examiner

5.6.1 EX PROJECT 2 IMPLEMENTATION/SIMULATION TOOLS/ EXPERIMENT: WEEK 7 (5%) and WEEK 14 (10%)

	Excellent (10 - 9)	**Good (8 - 6)**	**Average (5 - 3)**	**Poor (2 - 0)**		
Implementation /Simulations/Experiment **Implementation - The assessment of system architecture (according to the DFD model), database (according to the ERD model), Interfaces (according to the interface design) or according to the proposed framework (30%)** **Demonstration of working model/concept and adherence to project objectives (30%)**	System/design/framework is well implemented/simulated/experimented, able to address problem statements, methodology, designs/proposed framework and complies most of the project objectives. Conducted several different tests of the code; bugs, strengths and performance are noted.	System//Simulations/Experiment is able to address problem statements, methodology, designs/proposed framework and complies most of the project objectives. Conducted several different tests of the code; bugs are noted but strengths and performance not evident	System is able to address several problem statements, methodology, designs/ proposed framework and complies some of the project objectives. Conducted several different tests of the code; but notes about bugs and performance are not made.	System is not able to address problem statement and does not comply with the project objective No testing of the code is indicated	**10**	
TOTAL					**10** **/10**	**10** **/10**

5.6.2 EX PROJECT 2 PRESENTATION: WEEK 7 (2.5%) and WEEK 14 (2.5%)

	Excellent (10 - 9)	Good (8 - 6)	Average (5 - 3)	Poor (2 - 0)		
Presentation **(Presents ideas clearly and concisely, understands the questions asked and is able to provide concise answers)**	Student confidence is noteworthy. Builds trust & holds attention by direct eye contact & natural & gesture adapted to the content. Understands questions asked quickly and provides relevant and detail answers.	Student confidence is good. Holds attention by fairly consistent use of direct eye contact with audience. Understands the questions asked and is able to provide concise answers in most cases.	Student confidence is ok. Only focuses on one part of the audience. Does not scan audience. Able to answer questions asked, but with some difficulties.	Student lacks confidence. Does not attempt to look at audience at all. Reads notes or looks at computer screen only. Unable to provide answers to many questions asked	**10**	
TOTAL					**10** **/10**	**2.5** **/2.5**

5.6.3 EX PROJECT 2 REPORT: WEEK 14 (10%)

	Excellent (25 - 20)	Good (19 -13)	Average (12 - 6)	Poor (5 - 0)	X			
Abstract (5%)	Abstract strongly represented the student's research project. Clearly supported topic presented and contained important points.	Abstract adequately presented student's research project. More information would have been beneficial.	Somewhat able to see connection of abstract to research project. Abstract did not contain sufficient information	Unable to clearly connect abstract to research project.	No Submission	**25**	**5**	
Introduction (5%)	The title/topic, scope and objectives of the dissertation are innovative and original. They are clearly defined, contextualised and scientifically grounded.	The title/topic, scope and objectives of the dissertation are adequately defined. Most of the objectives are scientifically grounded and there is a high degree of originality.	The title/topic, scope and objectives of the dissertation are defined. Some objectives are scientifically grounded, but lack originality.	Although the title/topic, scope and objectives of the dissertation are defined, they are inadequately contextualised, with limited evidence that they are scientifically grounded. Little or no originality.	No Submission	**25**	**5**	
Literature review (5%)	Excellent knowledge, coverage, interpretation and application of the relevant literature.	Adequate knowledge interpretation and application of the relevant literature.	Adequate knowledge of the relevant literature. Minor shortcomings in the interpretation and application of the literature.	A basic overview of the literature, with limited interpretation and application.	No Submission	**25**	**5**	
Methodology (5%)	Excellent knowledge, coverage, interpretation and application of research methodology, techniques and analysis.	Demonstrates effective application of relevant research methodology, techniques and analysis.	Good organisation and application of research methodology.	Satisfactory understanding of the significance of the research methodology.	No Submission	**25**	**5**	
Clarity of design/framework (5%)	Disciplined, well thought out investigation/design method; justification for research/design method used.	The research/ design method is adequate.	The research/ design method is somewhat adequate.	Appropriateness of research/ design or investigative method is questionable.	No Submission	**25**	**5**	

Implementation **(30%)**	The written of implementation and preliminary testing is well-documented and able to address problem statements, methodology, designs/proposed framework and complies all the project objectives. Conducted all different tests; bugs, strengths and performance are noted.	The written of implementation and preliminary testing is generally good. System is able to address problem statements, methodology, designs/proposed framework and complies most of the project objectives. Conducted most different tests; bugs are noted but strengths and performance not evident	The written of implementation and preliminary testing is readable, but requires some efforts. System is able to address several problem statements, methodology, designs/ proposed framework and complies some of the project objectives. Conducted some different tests; but notes about bugs and performance are not made.	The written of implementation and preliminary testing is unclear, difficult to read and under standard. System is not able to address problem statement and does not comply with the project objective. No testing indicated.	No Submission	**25**	**30**	
Finding Analysis and Discussion (25%)	The finding analysis and discussion is well-presented and easy to understand	The finding analysis and discussion is generally good, but some parts seem out of place.	The finding analysis and discussion is readable but requires some effort.	The finding analysis and discussion is unclear, difficult to read and under standard.	No Submission	**25**	**25**	
Concluding remarks (10%) **Significance of the conclusion and final findings** **Future works**	The final summary is relevant and communicates the purpose and findings of the study in clearly understandable terms. Recommendations and future works where appropriable, are put forward together with the conclusions.	The final summary communicates the purpose and findings of the study. Recommendations and future works where appropriable, are put forward together with the conclusions.	The final summary only partially communicates the purpose and findings of the study. Recommendations and future works where appropriable, are put forward together with the conclusions.	The final summary does not communicate the purpose and findings of the study. No recommendations and future works are put forward together with the conclusions.	No Submission	**25**	**10**	

Report Quality (10%) **Written work is well organized and easy to understand, spell-checked and proofread well, work presented is entirely relevant to the work performed, information appropriately placed in either the main text or appendices.**	Written work is well organized and easy to understand. Spell-checked and proofread well. Writing style indicates planning that makes reading easy and flow of material makes understanding easy. Work presented is entirely relevant to the work performed.	Organization is generally good, but some parts seem out of place. A few spelling and grammatical errors. Writing style indicates planning that makes reading easy. Content is sufficient and largely relevant	Report is readable but requires some effort. Content is somewhat organized, but organization can be better. Contains relevant materials though more material can be included.	Unclear organization; frequent spelling and grammatical errors. Writing is disorganized and difficult to read and understand. Work presented is either trivial or not used in the work performed.	No Submission	**25**	**10**	
TOTAL						**225** **/225**	**100** **/100**	**10** **/10**

6. Student Log Book

A student log book is an academic reference that provides details related to supervisory meetings and to keep track the progress of student's project development plan and results. Student and supervisor are required to work closely and have regular meetings (minimum of **SIX** meetings during the semester.

The Log Book should be maintained and kept by the student, with copies of meeting notes given to the supervisor for the records. The record of a standard meeting should give a summary of:

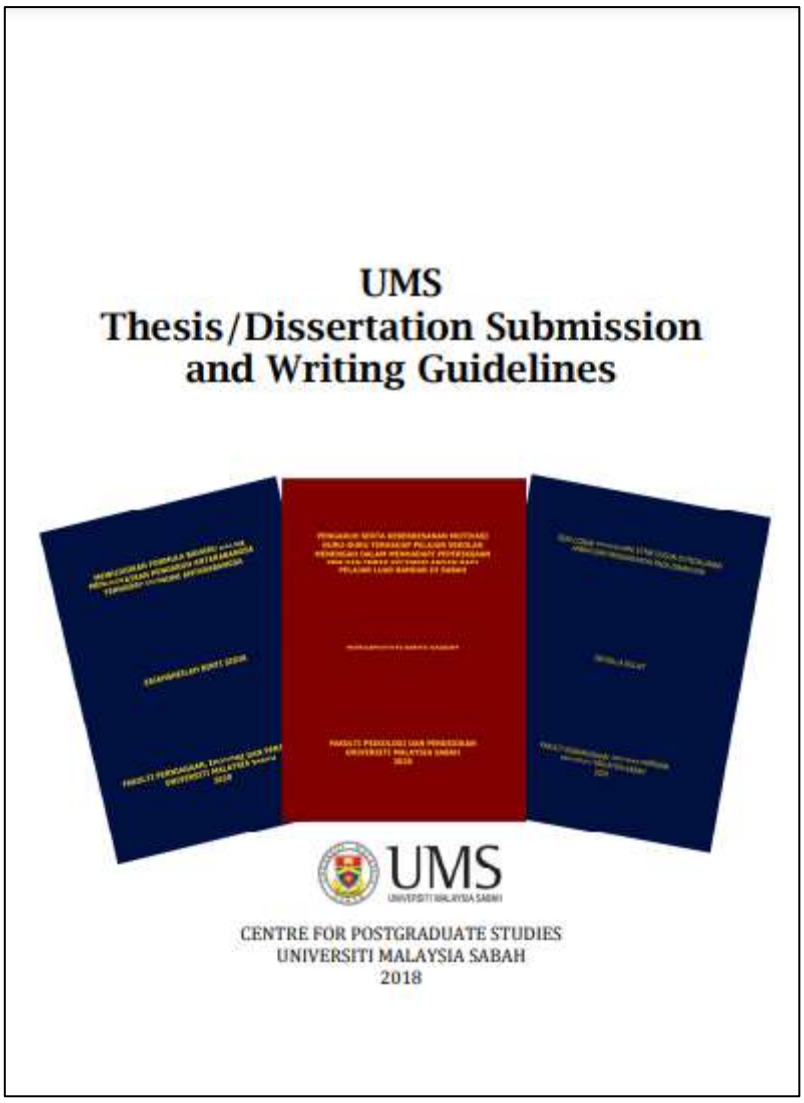
i. The **date** of the meeting.
ii. The focus of the **discussion** set at the meeting.
iii. The **summary** on student's progress made by a supervisor.
iv. The **actions** set for the next meeting.
v. Summary of supervisor's feedback on the student's **overall performance**.
vi. **Signature** from both student and supervisor.

The Log Book must be submitted together with the Project 1 and Project 2 report to the supervisor as it is part of the continuous assessment requirement.

Appendix

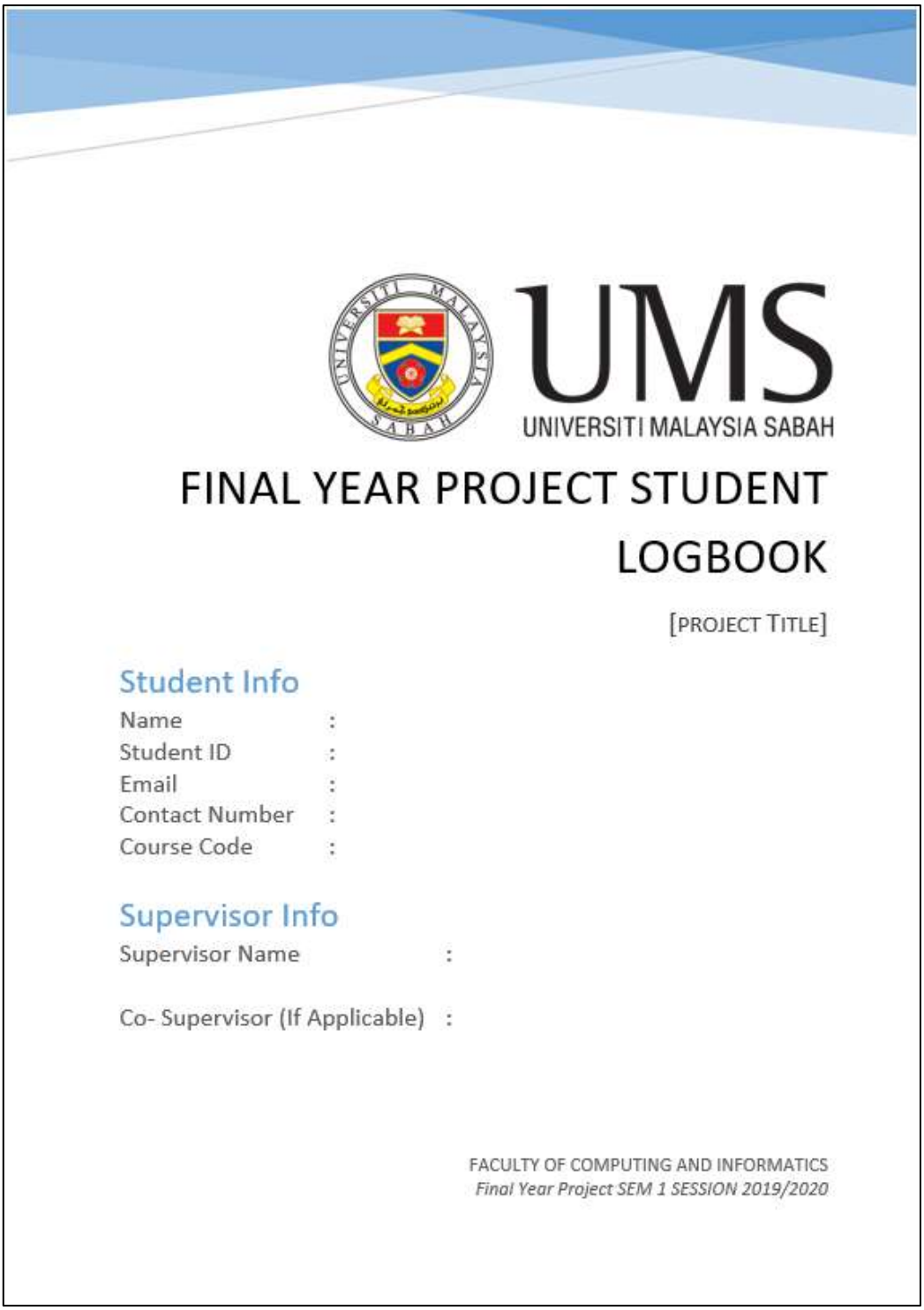
ii. Garis Panduan Gaya Penulisan UMS

Can be downloaded at this URL Link:
https://www.ums.edu.my/pascav2/files/2020_UMS_Thesis_Dissertation_Submission_And_Writing_Guidelines.pdf



ii. Student Logbook

This logbook template will be given to students in the beginning of the semester.



UMS

UNIVERSITI MALAYSIA SABAH

FINAL YEAR PROJECT STUDENT LOGBOOK

[PROJECT TITLE]

Student Info

Name :
Student ID :
Email :
Contact Number :
Course Code :

Supervisor Info

Supervisor Name :

Co- Supervisor (If Applicable) :

FACULTY OF COMPUTING AND INFORMATICS
Final Year Project SEM 1 SESSION 2019/2020

Final Year Project Student Logbook

UMS
UNIVERSITI MALAYSIA SABAH

Student Name :
Student ID :

Project : FYP 1 / FYP2

Semester/ Session :

Meeting : [1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10 / 11 / 12 / 13 / 14/___]
Date :

Achievements/ Activities :

Supervisor Suggestions/Comments :

Next Meeting Plan :

Supervisor's Signature: _____ **Student's Signature**: _____