



**SOUTHERN**  
UNIVERSITY COLLEGE  
南方大學學院

# **Final Year Project Handbook**


**Bachelor (Hons) of Software Engineering**

**Oct 2021**

**Department of Computer Science  
Faculty of Engineering and Information Technology**

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## Chapter 1 Introduction to Final Year Project

### 1.1 Project 1 Execution Procedure

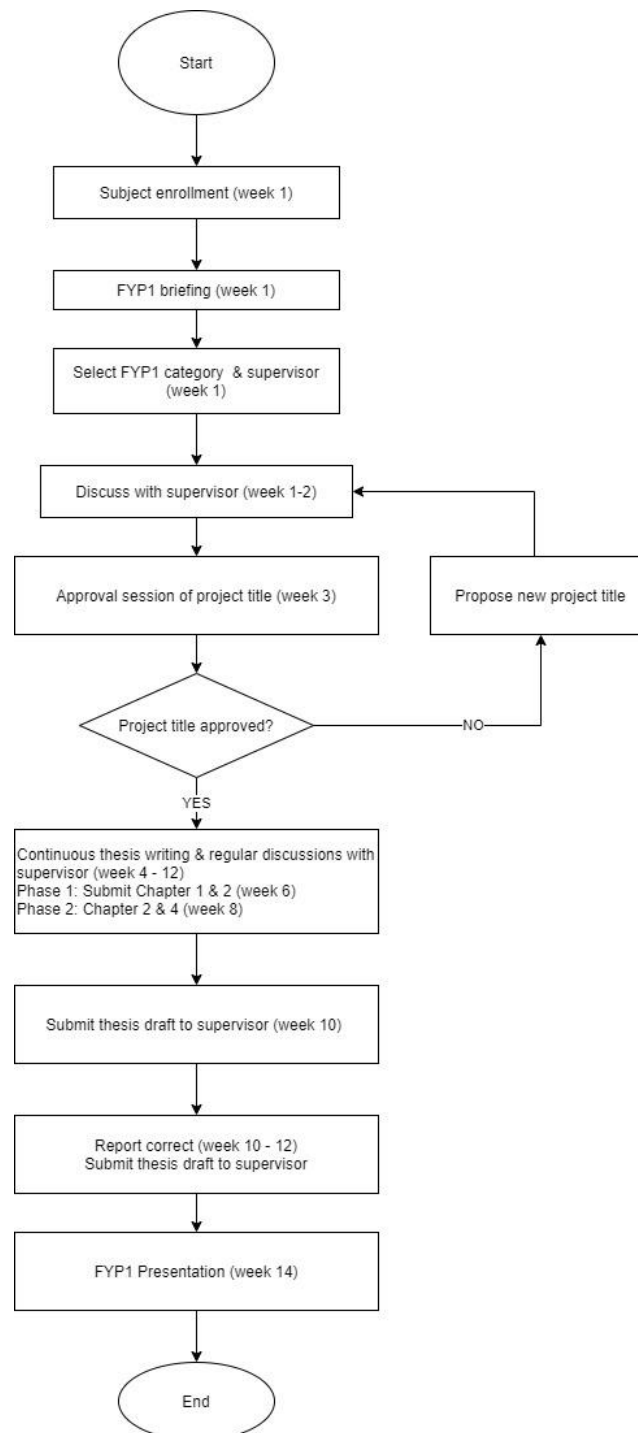



Figure 1 FYP1 procedure

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### 1.1.1 Subject enrolment

Only final year students can enrol Project 1.

<b>Bachelor's degree</b>	<b>Subject Code</b>
Bachelor's in software engineering	BTIS3103
	BTIS3102

### 1.1.2 Project / Research Category Briefing

At the beginning of the semester, Final Year Project coordinator will brief the students on suitable topic areas. The briefing will include lecturers' areas of interests, which could be very useful for students in the process of selecting the project title and supervisor.


### 1.1.3 Supervisor appointment

Students are responsible to find a supervisor. The appointed supervisor will supervise the student's project for both Final Year Project 1 and FYP2. Students, in appointing a supervisor, could use the following tips.

Have a discussion with a few lecturers before appointing, to identify:

- A supervisor who has sufficient knowledge on the intended project.
- A supervisor who has the same interest on the intended project.
- Check the list of DCS lecturers and their area of interest at the SUC directory. The link:

<https://www.southern.edu.my/SUCdirectory/main.php?dept=23&name=&search=Search&view=1>

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	<p><b>Name:</b> 苏永贵 Asst. Prof. So Yong Quay</p> <p><b>Department:</b> Faculty of Engineering &amp; Information Technology</p> <p><b>Position:</b> Assistant Professor; Department of Computer Science</p> <p><b>Ext No.:</b> 115</p> <p><b>Email:</b> <a href="mailto:yqso@sc.edu.my">yqso@sc.edu.my</a></p> <p><a href="#">Curriculum Vitae</a></p>

Figure 2 Lecturers' curriculum vitae (updated 6 Oct 2021)

#### 1.1.4 Final Year Project 1 (FYP1)

This section outlines the execution procedure of FYP1. It also highlights some of the important deliverables or outputs need to be presented by students to the supervisors as well as the evaluators to get a good grade.

##### 1.1.4.1 Project Proposal Submission

Project topics can be a product of students own ideas or it can be a suggestion from a prospective supervisor. Upon finding a title that suits you, put together a basic information search, discuss with your supervisor and prepare a basic proposal. An online project proposal form will be distributed and completed by students.

##### 1.1.4.2 Project Proposal Approval


Upon the submission of the project proposal, project proposal will be reviewed to ensure that:

- There is no duplication with previous projects in terms of the objectives and scopes for a particular problem domain.
- Students are clear on the objectives and scopes of their projects
- Students meet the minimum requirements in terms of technologies to be applied in their projects.

Review sessions are held in the third week of the semester. Students with rejected proposals must submit another proposal within 3 days of receiving the review result.

##### 1.1.4.3 Weekly Supervision Meeting And Logbook

Regular review from supervisors will ensure that students execute their project according to the faculty's procedure and standards, as well as the project objectives and aims. Student

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must arrange a minimum of six (6) formal meetings with their supervisors before receiving permission to submit and present their project. However, students are strongly advised to arrange a weekly meeting with the supervisors to address issues related to project execution. All meetings must be recorded in a logbook and the supervisor's signature of approval of each meeting is required. The logbook form is available at eLearning portal. Microsoft Teams is the current platform.

#### *1.1.4.4 FYP1 Report Submission*

Towards the end of FYP1 cycle, each student is required to submit their project report for evaluation. Students must get their supervisors' approval before submitting the report softcopy. A designated submission link will be given by week 11 of semester.

#### *1.1.4.5 Presentation Week*

Students are required to present their FYP1 progress and results achieved for evaluation. The presentation session will be evaluated by student's supervisor.

#### *1.1.4.6 FYP1 Report Correction*

Students are required to do correction based on the comments given by the supervisors in the coming FYP2.

#### *1.1.4.7 FYP1 Evaluation*

At the end of the semester, each student's project is evaluated to determine that the objectives and scope are adequate and are aligned with project aim. A passing grade in FYP1 is a requirement for FYP2. Evaluation rubric can be view in 1-Project Rubrics (Phase 1 BoSE and DipIT) (SUC)


#### *1.1.4.8 Project Presentation*

Twenty (20) minutes is allocated to each student for presentation. 15 minutes for slides presentation and prototype demonstration. 5 minutes for question-and-answer session. The presentation should contain the following items:

- i. An introduction on presenter, project title and supervisor
- ii. An overview of the presentation / presentation outline
- iii. Project background, aim, objectives and scope of the project
- iv. Summary of literature review
- v. Summary of research / system development methodology
- vi. List of software and hardware that are required to develop the project
- vii. Summary of initial findings during FYP1.
- viii. Discussion on FYP2 execution plan
- ix. Conclusion of the presentation

Students are advised to follow the subsequent good practices for their project's presentations:

- i. Arrive / prepare early for the presentation
- ii. Limit the use of text in slides
- iii. No spelling errors
- iv. Include more figures, pictures, charts, and system screen capture.

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- v. Have eye contact with audience / switch on web camera
- vi. Dress formally
- vii. Speak clearly
- viii. Manage the presentation time within time frame
- ix. Thank the audience for listening


## 1.2 Introduction to FYP2

This section outlines the execution procedure of FYP2. It also highlights some of the important deliverables or outputs need to be presented by students to the supervisors as well as the evaluators to get a good grade.

### 1.2.1 Subject Enrolment

Only final year students passed FYP1 can enrol FYP2

<b>Bachelor's degree</b>	<b>Subject Code</b>
Bachelor's in software engineering	BTIS3204

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### 1.2.2 FYP2 Procedure

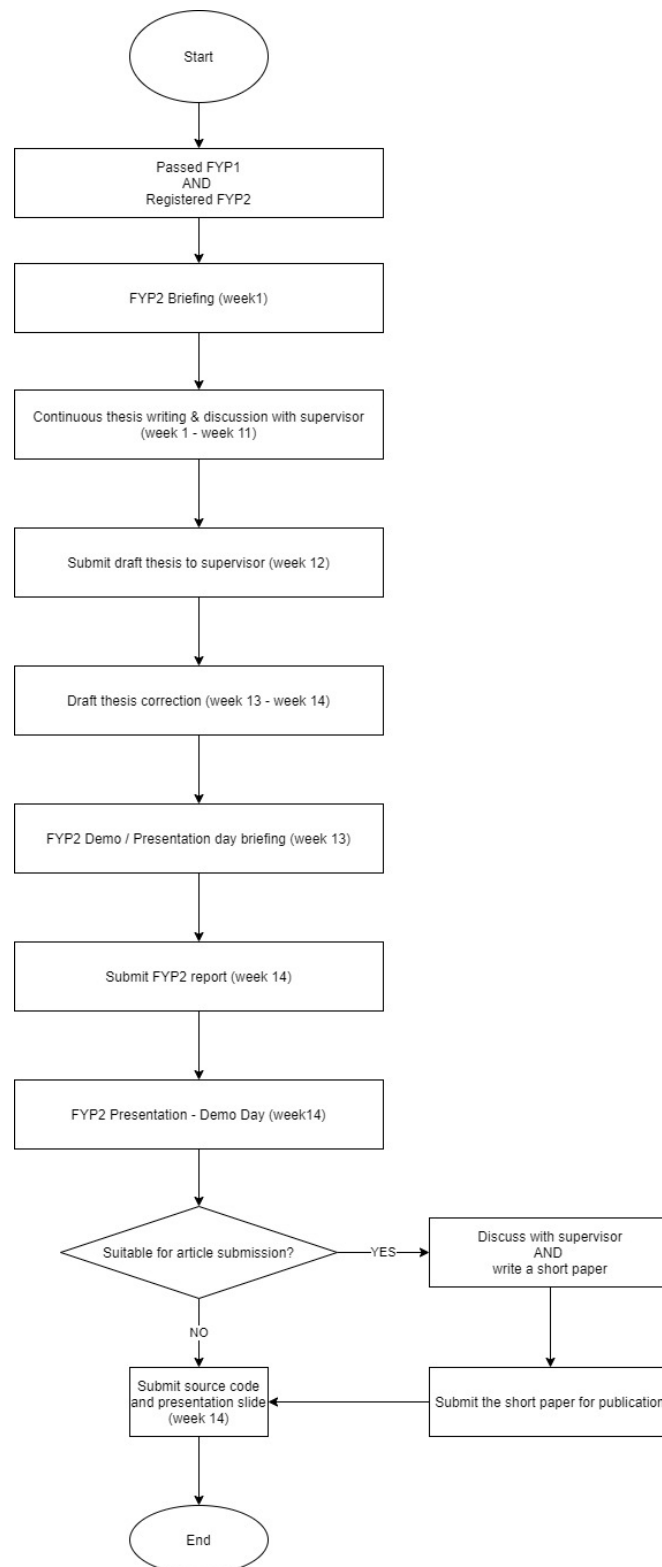



Figure 3 FYP2 procedure



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### 1.2.3 FYP2 Pre-Assessment

Students are required to regularly demonstrate their project development updates to their supervisors. These demonstrations act as a benchmark for the supervisor to decide whether the students will proceed with the final presentation.

### 1.2.4 Final Report

The final report is essential to FYP2. The early chapters, Chapters 1,2 and 3 are like FYP1. It must be reminded that the tenses in Chapter 3 must be changed. In FYP1, Chapter 3 presents the plan, while in FYP2 it presents actions already taken. Consequently, the past tense must be used in FYP2.


As part of their progress, students are required to submit drafts of Chapter 4 and 5 to their supervisors for evaluation. Corrections must be done as required. It is hoped that the quality of the student's project report is improved by having the on-going report assessments.

### 1.2.5 Presentation/ Demo Day

Once the final report has been submitted, students need to prepare themselves for the presentation and demo day.

The presentation for FYP1 is only 20 minutes (15 minutes for slides presentation and 5 minutes for the question-and-answer session). The important points must be included in the slide. The presentation should contain the following items:

- i. An introduction on presenter, project title and supervisor.
- ii. Presentation outline
- iii. Project background, aim, objectives and scopes of the project (Chapter 1)
- iv. Summary of literature review and research/ system development methodology (Chapter 2 and 3)
- v. An overview of requirement analysis and design (for system-based projects) / research development and implementation (for research-based projects)
- vi. Summary of system implementation and testing (for system-based projects) / result and analysis (for research-based projects) (Chapter 5)
- vii. Conclusion of the project (Chapter 6)


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### 1.2.6 Report Submission

Students must save thesis report as the required filename and format.

Document	File Name format	Example	File Format
Thesis document	<subject code>_<academic year>_<studentID>	BTIS3204_2021C_B170111B	DOCX
Thesis document	<subject code>_<academic year>_<studentID>	BTIS3204_2021C_B170111B	PDF
Abstract	<subject code>_<academic year>_abstract_<studentID>	BTIS3204_2021C_abstract_B170111B	PDF
Source Code	GitHub link	<a href="https://github.com/lerlerchan/testing2.git">https://github.com/lerlerchan/testing2.git</a>	link
Source Code	<subject code>_<academic year>_<studentID>	BTIS3204_2021C_B170111B	ZIP

Designated submission link will be given to students on Week 12. Failure to adhere instruction will result in the suspension of students' results.


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## Chapter 2 Project Categories


### 2.1 Introduction

There are 2 types of project which are system development and research based

Categories	System development	Research-based
Description	<ul style="list-style-type: none"> <li>It is based on developing an application, software, or embedded systems.</li> <li>The undertaken project must include programming elements with appropriate users' complexity and meet FYP scope.</li> </ul>	<ul style="list-style-type: none"> <li>It is based on a research application that includes data analysis, comparative studies or enhancement of techniques or algorithms</li> <li>Programming elements must be included in the research project</li> <li>It emphasizes on analysis as well as technical writing of the report</li> <li>Students are expected to read a few technical papers and able to digest with the help from the appointed supervisors.</li> </ul>
Aim	It gives the students an opportunity to conduct exercise as project developer in computer science, information technology and software engineering	It aims at guiding the students with research skills in computer networking, computer security, artificial intelligence, and embedded system.
Examples	<ul style="list-style-type: none"> <li>Web based application</li> <li>RFID-based project</li> <li>Mobile application</li> <li>Firmware application</li> </ul>	<ul style="list-style-type: none"> <li>Application of statistical technique in analysing network data</li> <li>New technique in cryptography</li> <li>Image processing</li> <li>Implementation of soft computing technique in solving security and network problems</li> </ul>
Future career	<ul style="list-style-type: none"> <li>Programmer</li> <li>Software engineer</li> </ul>	<ul style="list-style-type: none"> <li>Researchers</li> <li>Academic professionals</li> </ul>

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Sample	<ul style="list-style-type: none"> <li>• Cryptography teaching tools</li> <li>• Anti-copy software protection tools</li> <li>• Game-based learning tools</li> </ul>	<ul style="list-style-type: none"> <li>• Comparative study n IDS performance</li> <li>• Malware detection analysis</li> <li>• EdTech AI analysis</li> </ul>
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## Chapter 3 Report Writing and Format

### 3.1 Preliminary pages for both FYP1 and FYP2 reports


FYP1	FYP2
Front Page Format Cover page	Front Page Format Cover page
Title page	Title page
Abstract	Abstract
Acknowledgment page	Acknowledgment page

### 3.2 List structure

Content page	Title and page number must be equivalent to thesis text
List of tables page	Includes title of all tables and page numbers
List of figures page	Figures include diagrams, photographs, screen capture, graphs, charts, code snippets and others Include titles of all figures and page numbers
List of abbreviations page	Lists of abbreviations used within the report Listed in alphabetical order
List of terms page	Lists of terminologies used within the text Listed in alphabetical order
List of appendices page	Listed all appendices used within the text. Appendices are given names such as Appendix A: Context diagram Appendix B: Source Code Listed in alphabetical order

### 3.3 Project Content Structure


FYP1	FYP2
<b>Chapter 1: Introduction</b>	<b>Chapter 1: Introduction</b>
<b>Chapter 2: Literature Review</b>	<b>Chapter 2: Literature Review</b>
<b>Chapter 3: Methodology</b>	<b>Chapter 3: Methodology</b>

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<b>Chapter 4:</b>		<b>Chapter 4:</b>	
<i>Project Categories</i>	<i>Title</i>	<i>Project Categories</i>	<i>Title</i>
System Development	Design	System Development	Proposed system design
Research based	Experimental Setup	Research based	Experimental Setup
<b>Chapter 5: Implementation</b>		<b>Chapter 5: Implementation</b>	
		<b>Chapter 6:</b>	
		<i>Project Categories</i>	<i>Title</i>
		System Development	Testing, Result and discussion
		Research based	Results, analysis, and discussion
<b>Chapter 6: Conclusion</b>		<b>Chapter 7: Evaluation</b>	
<b>References</b>		<b>Chapter 8: Conclusion</b>	
<b>Appendixes</b> Source Code / GitHub Link Similarity Report		<b>References</b>	
Any of these can be included accordingly: <ul style="list-style-type: none"> <li>Organizational Chart</li> <li>Sample of Interview</li> <li>Sample of Questionnaire</li> <li>Functions recording link</li> </ul> Every appendix must have a title		Any of these can be included accordingly: <ul style="list-style-type: none"> <li>Organizational Chart</li> <li>Sample of Interview</li> <li>Sample of Questionnaire</li> <li>Functions recording link</li> <li>User manual</li> </ul> Every appendix must have a title	

### 3.4 Reference Format

The project is an essential component of the program. It is important that detection of any form of plagiarism in project work will be taken very seriously. The references can be written

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by using American Psychological Association, APA referencing style. Student may refer to [SUC library](https://library.sc.edu.my/files/Quick%20Reference%20Guide_APA_24%20May%202021.pdf) for assistance Or [https://library.sc.edu.my/files/Quick%20Reference%20Guide\\_APA\\_24%20May%202021.pdf](https://library.sc.edu.my/files/Quick%20Reference%20Guide_APA_24%20May%202021.pdf)

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## Chapter 4 Chapter Detail

Students must discuss with supervisors regarding their report writing. Supervisors has the right to add or eliminate some minor topic.

### 4.1 Outline of Chapter 1

Applicable to FYP1 and FYP2.

System Development Based	Research Based
Chapter 1: Introduction 1.1 Background Research 1.2 Objectives 1.3 Scope 1.4 Summary	Chapter 1: Introduction 1.1 Background Research 1.2 Objectives 1.3 Scope 1.4 Research Contribution 1.5 Summary

### 4.2 Outline of Chapter 2

Applicable to FYP1 and FYP2.


System Development Based	Research Based
Chapter 2: Literature Review 2.1 Introduction 2.2 Inter-organisation case study (if any) 2.3 Current system analysis 2.4 Compare between 3 existing systems 2.5 Literature review on technology used 2.6 Summary	Chapter 2: Literature Review 2.1 Introduction to case study 2.2 Problem formulation 2.3 Suggestions to solve identified problems 2.4 summary

### 4.3 Outline of Chapter 3

Applicable to FYP1 and FYP2

System Development Based	Research Based
Chapter 3: Methodology 3.1 Introduction 3.2 Methodology choice and justification 3.3 Phases within the chosen methodology / Planning 3.4 Technology / Tools used 3.5 System requirement analysis: hardware and software	Chapter 3: Methodology 3.1 Introduction 3.2 Operational Framework / Research Workflow 3.3 Justification 3.3.1 Tools 3.3.2 Data 3.3.3 Techniques 3.4 Performance measurement



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3.6 Gantt Chart 3.7 Financial Justification 3.8 Summary	3.5 Gantt Chart 3.6 Summary
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#### 4.4 Outline of Chapter 4

Applicable to FYP1 and FYP2.

System Development Based	Research Based
Chapter 4: Design / Proposed System Design 4.1 Introduction 4.2 Data Flow Diagram (DFD) 4.3 Entity Relationship Diagram (ERD) 4.4 Use Case Diagram 4.5 Use Case Description 4.6 Class Diagram 4.7 Activity Diagram 4.8 Sequence Diagram 4.9 Summary	Chapter 4 Experimental Setup 4.1 Introduction 4.2 Proposed Solution 4.3 Experiment design 4.4 Parameter and testing methods 4.5 Summary

#### 4.5 Outline of Chapter 5


Applicable to FYP2 Only

System Development Based	Research Based
Chapter 5: Implementation 5.1 Introduction 5.2 Content design / Wireframe 5.3 Prototype 5.4 Summary	Chapter 5: Implementation 5.1 Introduction 5.2 Experiment implementation 5.3 Summary

#### 4.6 Outline of Chapter 6

Applicable to FYP1 and 2

System Development Based	Research Based
Chapter 6: Testing 6.1 Introduction 6.2 Testing 6.2.1 Black box testing 6.2.2 White box testing 6.2.3 User Testing 6.3 Summary	Chapter 6: Results, Analysis and Discussion 6.1 Introduction 6.2 Research results and analysis <ul style="list-style-type: none"> <li>• Discussion</li> <li>• Table / Graph</li> </ul> 6.3 Summary

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#### 4.7 Outline of Chapter 7

Applicable to FYP1 and FYP2. Evaluation is not necessary in research-based project.

System Development Based	Research Based
Chapter 7: Evaluation 7.1 Introduction 7.2 User Interface Satisfaction Result 7.3 Summary	

#### 4.8 Outline of Chapter 8


Conclusion is in FYP1's Chapter 5 while chapter 8 in FYP2.

Project Phase	System Development Based	Research Based
FYP1	Chapter 8 Conclusion 5.1 Introduction 5.2 Achievements 5.3 Suggested plan for FYP2	Chapter 8 Conclusion 5.1 Introduction 5.2 Achievement / milestone achieved 5.3 Suggested plan for FYP2
FYP2	Chapter 8 Conclusion 8.1 Introduction 8.2 Achievement of project objectives 8.3 Recommendation	Chapter 7: Conclusion 7.1 Introduction 7.2 Achievement of project objectives 7.2 Research Contribution 7.3 Recommendation for improvement and future works

#### 4.9 Outline of Presentation

FYP1: 15 minutes presentation and 5 minutes question and answer session

System Development Based	Research Based
<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Overview of presentation</li> <li>• Project background, objectives, and scopes</li> <li>• Summary of literature review / Methodology</li> <li>• Overview of requirement analysis and design</li> <li>• List of software and hardware</li> </ul>	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Overview of presentation</li> <li>• Project background, objectives, and scopes</li> <li>• Summary of literature review / methodology</li> <li>• List of software and hardware</li> </ul>

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<ul style="list-style-type: none"> <li>• Summary of initial finding during FYP1 (EG: analysis of data collected from survey)</li> <li>• Discussion on FYP2 execution plan</li> <li>• Conclusion</li> </ul> <p>Question and answer session</p>	<ul style="list-style-type: none"> <li>• Summary of initial finding during FYP1 (EG: analysis of data collected from survey)</li> <li>• Discussion on FYP2 execution plan</li> <li>• Conclusion</li> </ul> <p>Question and answer session</p>
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FYP2: 15 minutes presentation and 5 minutes question and answer session

System Development Based	Research Based
<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Overview of presentation</li> <li>• Project background, objectives, and scopes</li> <li>• Summary of literature review / Methodology</li> <li>• Overview of requirement analysis and design</li> <li>• Summary of system implementation</li> <li>• Prototype demonstration</li> <li>• Conclusion</li> </ul> <p>Question and answer session</p>	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Overview of presentation</li> <li>• Project background, objectives, and scopes</li> <li>• Summary of literature review / methodology</li> <li>• Research development and implementation</li> <li>• Result and analysis</li> <li>• Conclusion</li> </ul> <p>Question and answer session</p>

## Chapter 5 Project Evaluation

Project evaluation rubric can be referring to the current rubric.

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