

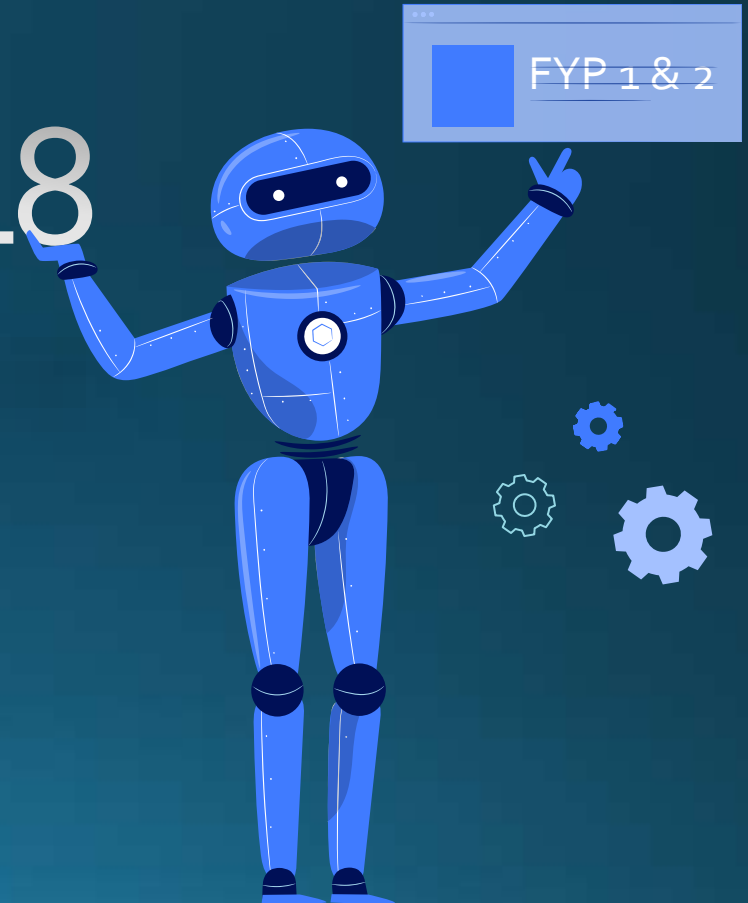
FYP Briefing Cohort 2018 SEM 2 2020/2021

BY

DR. DINNA @ NINA MOHD NIZAM

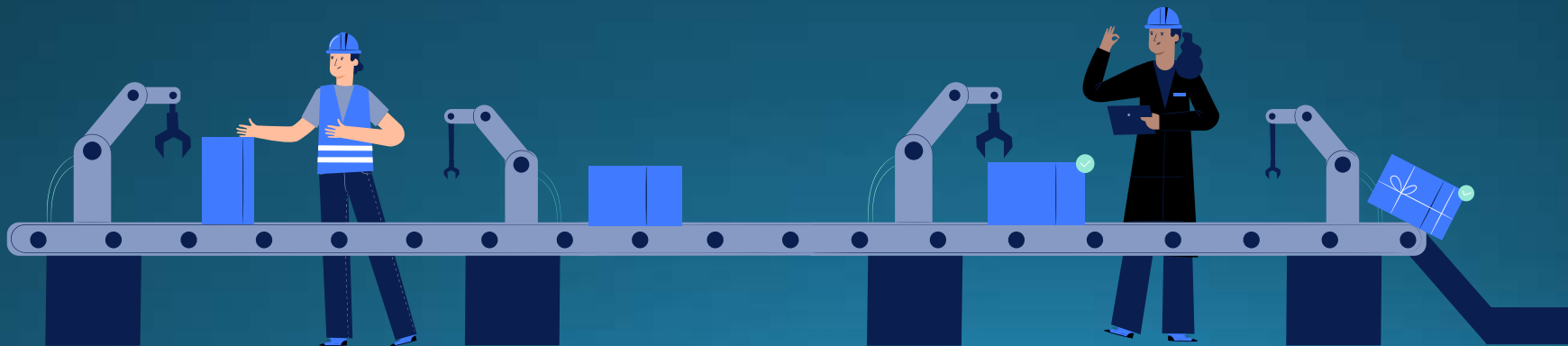
(Final Year Project Coordinator)

19th January 2021



Outline

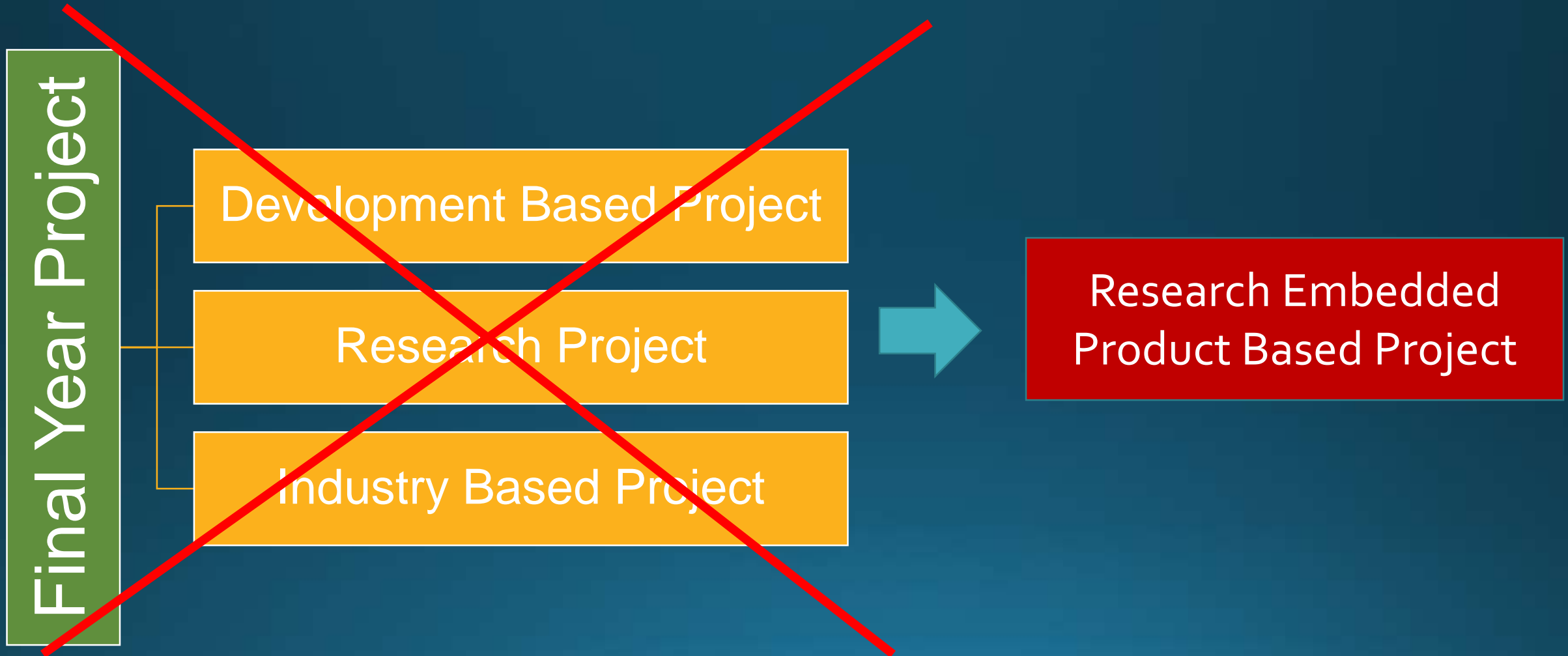
- FYP Objectives, Project Types
- FYP Requirements and Structure
- FYP Evaluation Scheme
- FYP Proposal Submissions Deadline



FYP Objectives

- Understand and apply the **theoretical knowledge** to a realistic problem related to computer science/IT
- **Search** and use information from appropriate sources such as manuals, books, research journals, from other peoples and internet
- **Design** a system, component or process to meet a specified goal
- Derive, apply and **adapt solutions** from the discipline specific knowledge to a real world problem solving context
- **Display personal responsibility** by working independently or in a group and in a professional manner
- Prepare and deliver coherent and structured **verbal** and **written** technical reports

Project Type



Research Embedded Product Based Project

FYP Requirements:

1

- Embedded Research Elements

2

- Scope: Industrial/ Agriculture

3

- 1 Poster + Article Summary (FYP)

FYP Requirements : Embedded Research Elements

➡ **WHAT IS?** Example : Student Attendance System

Problems/Limitations/Gaps of Existing System:

- Spoof User Login ID
- Given login ID to friends & friends help to clock-in attendance
- Capture QRCode and share with the friends



Proposed Solution: Location-based services

- What are the possible method?
 - Control Plane Based, Self-reporting based, Near LBS (NLBS), IoT and blockchain-based relative object location verification
- Conduct LR to study and review these methods.
- Select the best method to implement into FYP Project

Research Embedded Product Based Project

1

- Embedded Research Elements

➔ **HOW ?**

Example : Student Attendance System



STEP 1 : Review on the existing system/apps at the marketplace

STEP 2 : Identify the limitations

STEP 3 : LR/Preliminary Study (Possible Solutions, Research)

STEP 4: Design and Develop the Proposed Solution

STEP 5: Evaluation & Documentation

Proposal

Project 1

Project 2

Research Embedded Product Based Project

2

- Scope: Industrial/ Agriculture



WHAT IS?

Agriculture:

Smart Farming, Aquaculture..

Industrial: Project from Industry

The Collaboration Evidence (e.g. Letter of Intent) should be attached at the appendix of Proposal



Research Embedded Product Based Project

3

- 1 Poster & Article Summary (FYP)

Article Summary

- min. 4 to 6 pages
- Contents will be advised and guided by Supervisors
- Template will be given on Semester 1 2020/2021

Poster Requirements:

- A3 Size
- Both hard copy and soft copy (submit on Week 13 during FYP2 together with Full report submission)
- Will be used for FYP Competition and keep at FYP Gallery (Selected candidates)

Area of Work

- The FYP project will normally be in an area of work that emphasizes the software infrastructure associated with computer systems. Possible topic areas include, but are not limited to:
 - Development of existing systems;
 - Software implementation on limited resource devices;
 - Internet and Web applications;
 - Applied AI techniques;
 - Augmented/Virtual Reality;
 - Mobile application;
 - IoT based application;

FYP Structure Cohort 2018

- Final year project courses must be delivered in two semesters:-
- Project 1
 - Course Code: IE33002 / IM33002
 - Credit Value: 3
 - Semester and Year offered: Semester 2, Year 3
- Project 2
 - Course Code: IE42504 / IM42504
 - Prerequisite: FYP1
 - Credit Value: 3
 - Semester and Year offered: Semester 1, Year 4
- FYP Project I and Project II are continuous Project. Must pass FYP1 to proceed to FYP2.


Evaluation Methods (FYP₁ / FYP₂)

FYP1				FYP 2					
<u>Supervisor</u>	Wk 7	Wk 14	New Total		<u>Supervisor</u>	Wk 7	Wk 14	New Total	
Report	10	15	25	40%	Report	5	10	15	40%
Prototype/Preliminary Results		5	5		Implementation/Simulation Tools/ Experiment	5	10	15	
Consultation/Logbook	5	5	10		Consultation/Logbook	2.5	2.5	5	
					Poster and Article Summary		5	5	
<u>Examiner 1</u>					<u>Examiner 1</u>				
Report		15	15	30%	Report		10	10	30%
Prototype/Preliminary Results		5	5		Demonstration	5	10	15	
Presentation	5	5	10		Presentation	2.5	2.5	5	
<u>Examiner 2</u>					<u>Examiner 2</u>				
Progress Submission				30%	Progress				30%
Report		15	15		Report		10	10	
Prototype/Preliminary Results		5	5		Demonstration	5	10	15	
Presentation	5	5	10		Presentation	2.5	2.5	5	
				100%					100 %

**Supervisor not compulsory to attend the presentation

** Consultation: min. 3 times per semester

Logbook

Final Year Project Student Logbook	
 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	
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: _____	

FYP Timeline

	Activities	Action Plan	Assessment Method	Supervisor Marks (40%)	Examiner Marks (30%)	Examiner 2 Marks (30%)	Output
Sem 5 [3 rd Year, Sem 1]	Proposal Brief Proposal Submission Proposal Review & Endorse	Week 14 26th February 2021 Before the Semester Opens	FYP Briefing All faculty members				
Sem 6 [3 rd Year, Sem 2]	FYP 1 (Development)	FYP 1 Week 1	FYP 1	Report: 25% Prototype/ Preliminary Result: 5% Consultation/logbook: 10%	Report:15% Prototype/ Preliminary Result: 5% Presentation:10%	Report:15% Prototype/ Preliminary Result: 5% Presentation:10%	FYP Progress Presentation (Week 7) FYP Report 1 Submission (Week 13) FYP Presentation (Week 14)
Sem 7 [4 th Year, Sem 1]	FYP 2 (Development)	FYP 2	FYP 2	Report: 15% Implementation/ Simulation Tools/ Experiment: 15% Consultation/ logbook: 5% Poster&ArticleSum: 5%	Report:10% Demonstration: 15% Presentation:5%	Report:10% Demonstration: 20% Presentation:5%	FYP Progress Presentation (Week 7) FYP Report 2 Submission (Week 13) FYP Presentation (Week 14)

Passed Condition Project

- Students who **FAIL to submit** their FYP proposal on the specified DUE date are **not allowed to attend the viva** and will be given a fail grade, "F".
- Students who **fail to submit their FYP thesis** are **not allowed to attend the viva** and will be given a fail grade, "F".
- All **objectives** stated in the thesis must be achieved.
- Students with a **plagiarized** report or system will be given a fail grade, "E".
- Students must have sufficient academic discussion/ meetings with their supervisor at **least three (3) times** in a semester.

Passed Condition Project

- Students who **fail to attend** the viva session without a valid reason will be given a fail grade, "F".
- During the viva session, students must **achieved the required quality of work** as stipulated by the examining committee
- As FYP Project I and Project II are Continuous, **changing title and objectives** of Final Year Project is subjected to the approval of FYP Committee.

Repeating FYP Project

- For FYP₁, students are allowed to change project and/or supervisor or continue with the same topic/supervisor however are required to:
 - inform the FYP Coordinator, fill the Change Title Project I form (applicable for changing FYP Title only)
- For FYP₂, students are required to:
 - register for FYP₂ in the consecutive semester
 - continue the same project with necessary amendments or have to start the entire tasks and processes with the new title.

IMPORTANT DATES

- To register Project I in Semester 2 2020/2021, a Student **MUST** submit the **Project Proposal** with approval from his/her supervisor on 26th FEB 2021.

Timeline for FYP Proposal COHORT 2018 Semester 2 Session 2020/2021 (19 th January 2021 – 19 th March 2021)	
	Student/ Lecturer
FYP Briefing	19 th January 2021
Finding Supervisor and Writing FYP Proposal	19 th January 2021 -17 th February 2021
Proposal Submission on Google Drive (in two formats pdf and words)	26 th February 2021
Proposal Review Meeting (Involves all Faculty Members)	1 st – 5 th March 2021
Proposal Result Release	15 th March 2021 (Or earlier)
Revise Proposal	15 th -19 th March 2021

IMPORTANT DATES

Timeline for FYP 1
COHORT 2018
Semester 2 Session 2020/2021
(15th March 2021 – 25th June 2021)

Week	Dates	Action
Week 1	15 th -19 th Mar 2021	Revised Proposal
Week 1 – Week 6	15 th Mar – 23 rd April 2021	Project 1 Progress
Week 7	26 th -30 th April 2021	Project 1 Progress Presentation (20 minutes)
Week 8 –Week 12	3 rd May – 13 th June 2021	Project 1 Progress
Week 13	14 th Jun 2021	Project 1 Full Report Submission
Week 14	21 st – 25 th Jun 2021	Project 1 Presentation (20 minutes)

Proposal Writing Contents

CONTENTS :

Abstract (500 words)

1.0 Introduction

2.0 Problem Background

3.0 Problem Statements

4.0 Literature Review

5.0 Project/Research Objectives

6.0 Project/Research Methodology

7.0 Flow of Project/Research Activities

8.0 Project/Research Milestone

9.0 References (min. 15 references)



Proposal Formatting : Gaya UMS version 2016
Refer to the FYP Proposal Formatting

Project 1

- **Without the proposal approval**, student cannot proceed to **Project 1** in Week 1 and may receive an E as the consequences.
 - On the other hand, if no report is received by the end of the semester the student may also get an E.
 - Below are some details needed in your FYP 1 report :
 - Introduction, problem background, problem statement, objectives, project scope
 - Literature Review
 - Methodology
 - System Analysis and Design
 - Preliminary implementation/ experiment
 - Conclusion
-
- Week 7 Progress Presentation
- Week 13 Full FYP1 Project Report

Project 2

- Without the completion of **Project 1**, student cannot proceed to Project 2 in Week 1 the following semester.
 - Also, if no report is received by the end of the semester, the student may also get an E.
 - Introduction, problem background, problem statement, objectives, project scope
 - Literature Review
 - Methodology
 - System Analysis and Design
 - Implementation
 - Testing
 - Conclusion
-
- Week 7
Progress
Presentation
- Week 13
Full FYp2
Project Report

Report Content Arrangement

Content Arrangement (Report) – This is just a basic guideline.

FYP1: Until Chapter 4 / FYP2: Till the end.

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 Summary
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 Summary
CHAPTER 3 : METHODOLOGY AND ANALYSIS
3.1 Introduction
3.2 Subheading (e.g.: Development Method)
3.3 Subheading (e.g.: Data Analysis)
3.4 Summary
CHAPTER 4 : DESIGN/Framework
4.1 Introduction
4.2 Subheading (e.g.: DFD, USE CASE)
4.3 Subheading (e.g.: Design analysis)
4.4 Conclusion
CHAPTER 5 : IMPLEMENTATION
5.1 Introduction
5.2 Subheading (e.g.: System/ Application Implementation)

5.3	Summary
CHAPTER 6 : FINDING AND DISCUSSION	
6.1	Introduction
6.2	Subheading (e.g.: Findings from your testing results)
6.3	Subheading (e.g.: Discussion)
CHAPTER 7 : CONCLUSION	
7.1	Introduction
7.2	Subheading (e.g.: Project Strength/ Limitation)
7.3	Subheading (e.g.: Project Future Work)
REFERENCES	
APPENDICES	
A.	Student's Log Book
B.	Turnitin Report (not > than 30%)

For **FYP₁** from Chapter 1 until Chapter 4 and end your report with Conclusion Chapter.

While **FYP₂** start from Chapter 1 until the end. Plus your Poster and Article Summary..

Presentation

- 20 Minutes are allocated for **FYP₁** and 30 minutes for **FYP₂** , a presentation slot will be assigned to each submitted Project.
- Students are required to:
 - Prepare 10 – 15 minutes presentation **slides** for the presentation.
 - The 10 – 15 minutes presentation includes the system/experimental demonstration
 - Q& A sessions
- BE PUNCTUAL , If you are LATE the presentation will be NOT BE REARRANGED unless being agreed by the examiners with a suitable reason.

Project Progress Monitoring

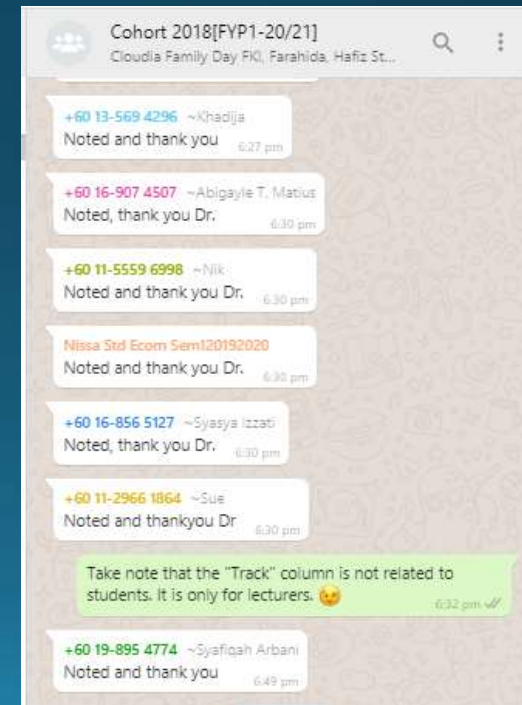
- Every meeting with your supervisor must be recorded in the Meeting Logbook. All discussion and action plans must be written for future references.
- Failure to attend at least **THREE** meetings per semester with your supervisor could cause the student to be penalized and not allowed to present their project in Week14.

Role of Supervisor

- SUPERVISOR IS
- Someone who **provide guidelines** on how and what you must do in your project
- Someone who give **you ideas and comment** on how to improve your system/application
- SUPERVISOR IS NOT
- Someone who supposed to teach and **solve** your programming problems.
- Someone who supposed to find and **give you source code** samples.
- Someone who supposed to **frequently remind you** (or beg you) about the due dates for submitting your project reports.

Communication Medium

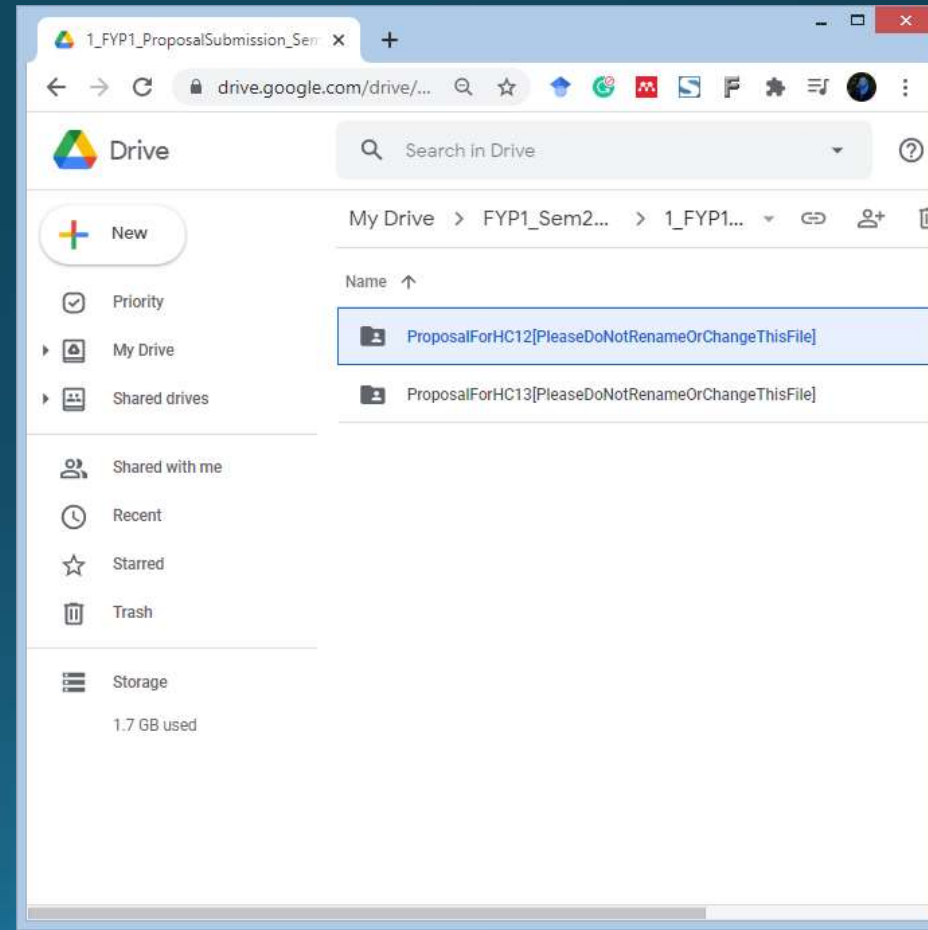
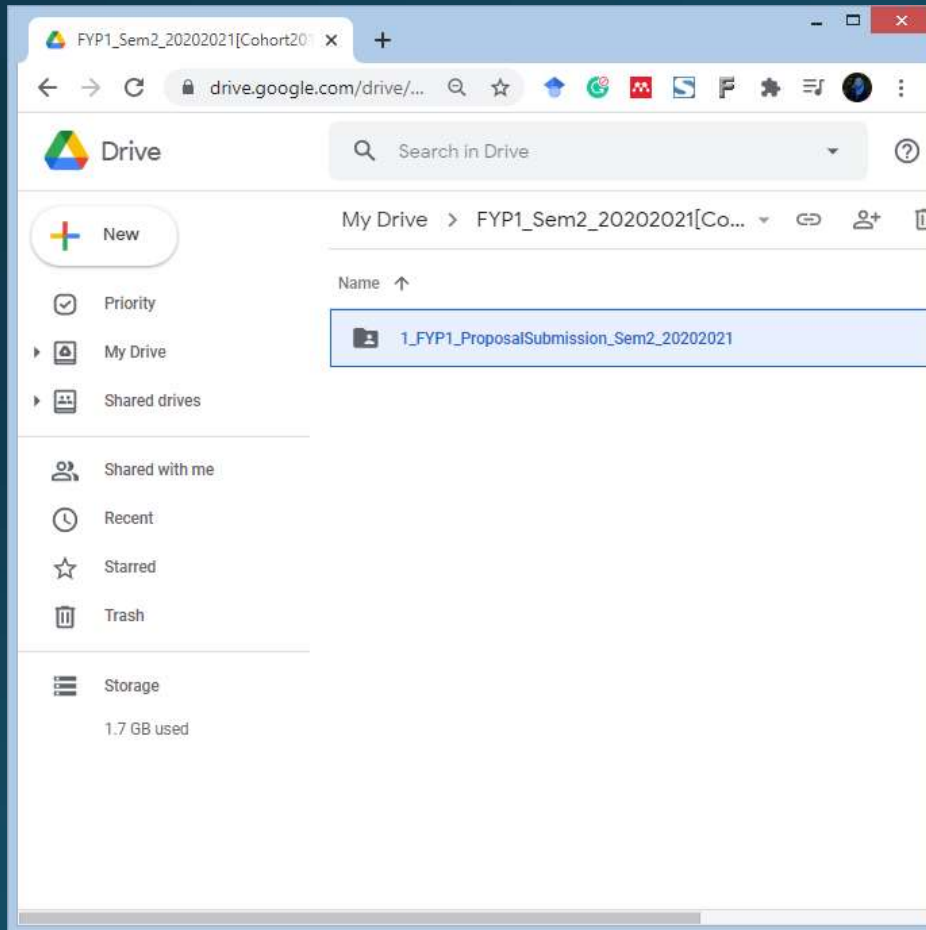
- Communication medium: **Facebook and WhatsApp**
- FB group → “FYPFKILbn[Cohort2018]_Sem2_20202021”
- WhatsApp Group → “Cohort 2018[FYP1-20/21]”



Proposal Submission

- Your Proposal Submission is **through Google Drive**.
- Please go to the link below:
- <https://drive.google.com/drive/folders/1gPG94YHyNDvK89Jcpc2BwoiaDolfivVj?usp=sharing>
- To access this use your **student email account**. If you are using other emails you will have to wait for my approval. So instead of waiting for me please use your student email account.
- The deadline to submit your proposal is on the **26th Feb 2021** (towards the end of your exam week) by **5:00pm**. After 5:00pm I will close all access to the google folder.

Proposal Submission (Google Drive)



Submit your
Proposal
according to
your Course
Program

Add-on Remarks

- Ensure that you defined a proper objective (measurable and achievable) for your Final Year Project.
- Since Project I and Project II are continuous, your objectives, scope and titles **cannot be change** during your Project 2. Any changes require Approval from the FYP Committee.
- Projects can be done in a **team of two** with supervisors permission (however it is limited). Instead of having 3 objectives for a single project, a team project must have 6 objective. Meaning 3 objectives per student. Also task between both students must be clearly stated in the report.

Allocation of FYP Students Per Lecturer

Lecturer's Name	Track	Jumlah Kursus	BTPA	Total FYP Students	Emails
MUZAFFAR HAMZAH, DR	Research	1	3	0	muzaffar@ums.edu.my
ZAIDATOL HASLINDA ABDULLAH SANI, DR	Research	1.5	5 - 6	3	linda.sani@ums.edu.my
DINNA @ NINA MOHD NIZAM, DR	Research	1.5	5 - 6	3	dinna@ums.edu.my
GOH SAY LENG, DR	Research	1	5 - 6	2 (+ 2)	slgoh@ums.edu.my
SYED NASIRIN SYED ZAINOL ABIDIN, ASSOC PROF DR	Research	1	5 - 6	0	snasirin@ums.edu.my
ESMADI ABU SEMAN, DR	Research	1	5 - 6	0	esmadi@ums.edu.my
WAN NOORAISHYAH WAN AHMAD, DR	Research	0	5 - 6	2	aishya@ums.edu.my
SUAINI SURA, DR	Teaching	1	3	2	su_sura@ums.edu.my
ZAMHAR ISWANDONO AWG. ISMAIL, DR	Teaching	1	3	2	zamhar@ums.edu.my
NOORALISA MOHD TUAH, DR	Teaching	1	3	2	aelise@ums.edu.my
CAROLYN SALIMUN, DR	Teaching	1	3	2	carolyn@ums.edu.my
HADZARIAH ISMAIL, MDM	Teaching	2	14 - 16	6	had@ums.edu.my
JACKEL CHEW VUI LUNG, DR	Teaching	2	14 - 16	6	jackelchew93@gmail.com
TAMRIN AMBOALA, DR	Teaching	2	14 - 16	6	tamrin@ums.edu.my
NONA MASNIE MOHD NISTAH, MDM	Teaching	2	14 - 16	6	nona@ums.edu.my
AHMAD RIZAL AHMAD RODZUAN, MR	Teaching	2	14 - 16	6	arizal.arodzuan@gmail.com
RYAN MACDONELL ANDRIAS, MR	Teaching	1	14 - 16	8 (– 1)	ryan@ums.edu.my
LAURA PENNY JACK, MDM	Teaching	1	14 - 16	8 (– 1)	laura@ums.edu.my
AINNECIA YOAG, MS	Teaching	1	14 - 16	8	ainnecia@ums.edu.my
JONATHAN LIKOH, MR	Teaching	1	14 - 16	8	jonathan@ums.edu.my
IZA AZURA AHMAD BAHAR, MDM	Teaching	1	14 - 16	8	izabahar@ums.edu.my