CPT6314
FINAL YEAR PROJECT (FYP) 1

FYP1 Briefing
2nd October 2024 (Wednesday)
02:00pm to 04:00pm
Venue: Microsoft Teams
(Link: **Teams meeting**)

Topics for Discussion

- Objectives and Course Learning Outcomes (CLOs)
- Prerequisites
- Project Categories
- Process Flow: Prior to FYP1, During FYP1 and FYP2
- Project Proposals
- Reminder: FYP Timelines
- Activities for FYP1 and FYP2-Summary
- Application-Based Vs Research-Based Projects
- Assessments
- Important Points to Note
- FYP related information
- Contacts

Objectives of the Course

• To enable the students to apply knowledge gained from different subjects for solving real-world problems.

• To enable the students to acquire technical skills through background study/literature review, analysis, and design/research methodology.

• To enable the students to develop soft skills, such as critical reasoning, communication, and report writing skills, that will be required to carry out a real-world project.

Course Learning Outcomes (CLOs)

CLO1. Demonstrate effective project management with a strong focus, passion, commitment, and innovation in solving the problems.

CLO2. Develop the strategies/models/techniques for background study/literature review, analysis, and design/research methodology based on the real-world problem.

CLO3. Explain the project design/research methodology and prototype/simulation through both written and oral methods.

Prerequisites

i. Completed **50 credit hours** (excluding Mata Pelajaran Umum (MPU) and university   course subjects)

ii. **CSE6214 - Software Engineering Fundamentals**
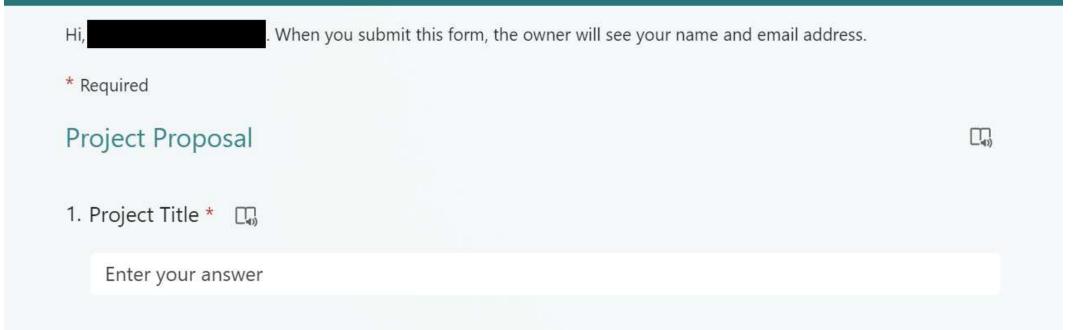
Project Categories

☐ Individual projects

☐ Group projects

　☐ Max 2 members (working on the larger problem)

　　☐ Separate tasks

　　☐ Individual subtitle

　　☐ Individual Report (no overlapping of the contents)

☐ Span over 2 trimesters

☐ Can be

　☐ Research based

　☐ Application based

　☐ Both Research and application based (but need to determine which one is predominant)

　　☐ Requirements vary

Project Proposals

- **Supervisor-proposed projects**
    - Call for FYP Proposals from the supervisors
    - Through Two rounds
        - **First Round: by 8th October 2024 (Tuesday)**
        - **Second (Final) Round: by 29th October 2024 (Tuesday)**
    - Approved projects will be available in MS Teams Channel
        - Tentative Timelines
            First Round: 23rd October 2024 (Wednesday)
            Second (Final) Round: 7th November 2024 (Thursday)

- **Student-proposed projects**
    - In consultation with supervisor
    - Updated FYP Proposal Submitted by supervisor
    - Student Proposal submission to Supervisors
        - **Last Date: 28th October 2024 (Monday)**

Final Year Project Proposal Form

Hi, ████████████████. When you submit this form, the owner will see your name and email address.

* Required

Project Proposal

1. Project Title *

Enter your answer

2. Supervisor's Name *

Enter your answer

3. Co-Supervisor Name (if any)

Enter your answer

4. Project Status *

- ( ) Supervisor-Proposed

- ( ) Student-Proposed

- ( ) Industry-Proposed

5. Project Type *

- ( ) Application-Based

- ( ) Research-Based

- ( ) Application and Research Based

6. Project Specialization
   (Project Specialisation and Student Specialisation should match)
      *

   ◯ Software Engineering

   ◯ Data Science

   ◯ Cybersecurity

   ◯ Game Development

   ◯ Information Systems

- ⦿ Software Engineering

- ◯ Data Science

- ◯ Cybersecurity

- ◯ Game Development

- ◯ Information Systems

7. Project Category (Software Engineering) *

- ◯ Critical System

- ◯ Application Software

- ◯ Software Tools & Utilities

- ◯ Service Oriented Computing

○ Software Engineering

◉ Data Science

○ Cybersecurity

○ Game Development

○ Information Systems

7. Project Category (Data Science): *

○ Data Engineering

○ Data Analytics

○ Software Engineering

○ Data Science

◉ Cybersecurity

○ Game Development

○ Information Systems

7. Project Category (Cybersecurity): * 🔊

○ Cryptography and Data Security

○ Investigation and Analysis

○ Security and Defence

○ Data Science

○ Cybersecurity

● Game Development

○ Information Systems

7. Project Category (Game Development): * 📖

○ Game Software Development (GSD)

○ Game Algorithm Research (GAR)

○ Game Design Prototyping (GDP)

○ Data Science

○ Cybersecurity

○ Game Development

◉ Information Systems

7. Project Category (Information Systems): * 🕮

○ IT Infrastructure

○ Transaction Processing Systems

○ Intelligent Systems

Project Focus/Contribution based on Specialisation:

Software Engineering:

- Product Development

- Prototype/Proof of Concept

- Software Engineering Methodologies

- Others (Pls. specify)

Data Science:

- Data Management

- IoT

- Optimisation of Technologies

- Analysis of data (texts, videos, images, numerical digit)

- Others (Pls. specify)

- **Cybersecurity:**

- Cryptography

- Database Security

- Blockchain

- Malware analysis

- Forensics

- Ethical hacking

- Network and Cloud Security

- Others (Pls. specify)

Project Focus/Contribution based on Specialisation:

- **Game Development:**

- Game Software Development (GSD): Development and implementation of a complete game from design, programming to production of a complete game installation package

- Game Algorithm Research (GAR): Thorough investigation and analysis of specific algorithms used in games

- Game Design Prototyping (GDP): Proof of concept of novel specific game design concepts or game mechanics via development of complete prototypes

- **Information Systems:**

- Data & Information Management

- User Experience

- System Analysis & Design

- IS Project Management

- Business Processes

- Technology Evaluation

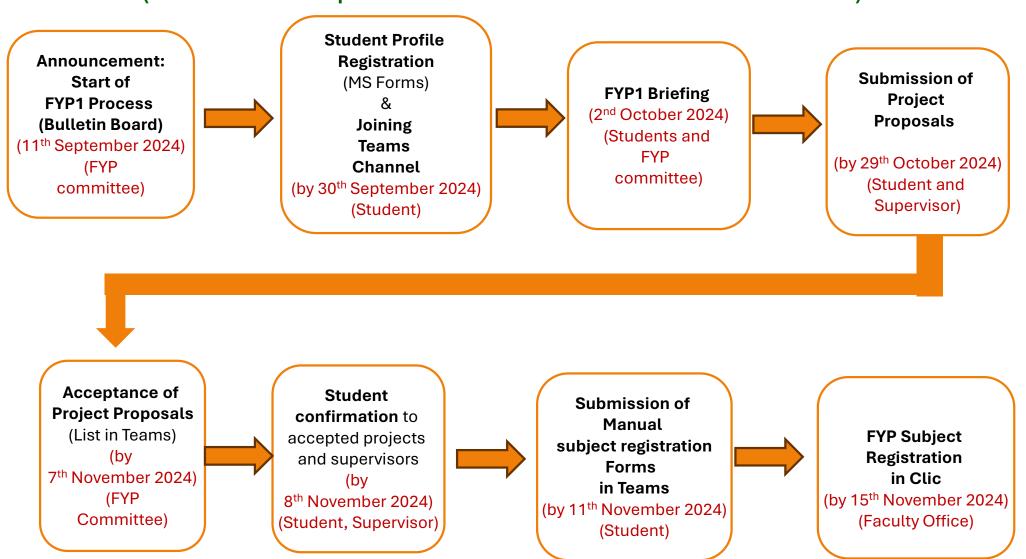- Others (Pls. specify)

Project Proposal Format: Checklist

- ☐ **Project Description**
  - ☐ Briefly include the background, problem statement, methodology, expected output, and significance

- ☐ **Project Objectives/Outcomes**
  - ☐ Focused and precise list of statements that can imply the goals to be achieved
  - ☐ Majority of the Project Objectives/Outcomes are in line with the Project and Student specialisation

- ☐ **Project Scope**
  - ☐ Focus/Expected Output/ Deliverables with the limits and constraints of the study can be described and implies enough scope for the two-trimester project

- ☐ **Two-student Project (if any)**
  - ☐ Separate subtitles for Student 1 and Student 2
  - ☐ Description and Distinct allocation of work/activities for each student

- ☐ **Industry Collaboration (if any)**
  - ☐ Additional supervisor from the company

Student Details

13. Student Name 🔊

Enter your answer

14. Student ID 🔊

Enter your answer

15. Mobile phone number 🔊

Enter your answer

16. Email Address 🔊

Enter your answer

17. Specialisation 🔊 ← (Student's Specialisation)

○ Software Engineering

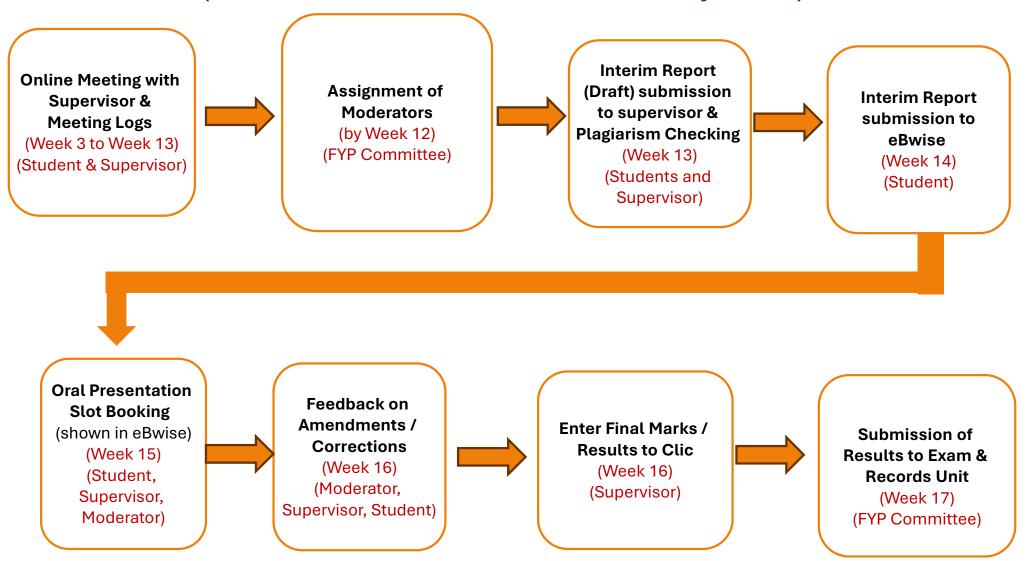○ Data Science

○ Cybersecurity

○ Game Development

○ Information Systems

CPT6314 Final Year Project (FYP1)
Process Flow (Prior to the Start of Project)
(Period: 11 September 2024 to 15 November 2024)

Announcement: Start of FYP1 Process (Bulletin Board)
(11th September 2024)
(FYP committee)

→

Student Profile Registration (MS Forms) & **Joining Teams Channel**
(by 30th September 2024)
(Student)

→

FYP1 Briefing
(2nd October 2024)
(Students and FYP committee)

→

Submission of Project Proposals
(by 29th October 2024)
(Student and Supervisor)

Acceptance of Project Proposals
(List in Teams)
(by 7th November 2024)
(FYP Committee)

→

Student confirmation to accepted projects and supervisors
(by 8th November 2024)
(Student, Supervisor)

→

Submission of Manual subject registration Forms in Teams
(by 11th November 2024)
(Student)

→

FYP Subject Registration in Clic
(by 15th November 2024)
(Faculty Office)

CPT6314 Final Year Project (FYP1) Process Flow (During FYP1 Period)
(Period: November 2024 to February 2025)

Online Meeting with Supervisor & Meeting Logs
(Week 3 to Week 13)
(Student & Supervisor)

→

Assignment of Moderators
(by Week 12)
(FYP Committee)

→

Interim Report (Draft) submission to supervisor & Plagiarism Checking
(Week 13)
(Students and Supervisor)

→

Interim Report submission to eBwise
(Week 14)
(Student)

↓

Oral Presentation Slot Booking
(shown in eBwise)
(Week 15)
(Student, Supervisor, Moderator)

→

Feedback on Amendments / Corrections
(Week 16)
(Moderator, Supervisor, Student)

→

Enter Final Marks / Results to Clic
(Week 16)
(Supervisor)

→

Submission of Results to Exam & Records Unit
(Week 17)
(FYP Committee)

CPT6324 Final Year Project (FYP2) Process Flow (During FYP2 Period)
(Period: March 2025 to July 2025)

Submission of Manual subject Registration Forms Through Teams
(Prior to the start of FYP2)
(Student)

→

Subject Registration for FYP2 (Clic)
(Week 1 & Week 2)
(Faculty Office)

→

Meeting with supervisor & Meeting Logs
(Week 2 to 13)
(Students and Supervisor)

→

Plagiarism Checking
(Week 13)
(Student & Supervisor)

→

Final Report Submission
(in eBwise)
(Week 14)
(Student)

Poster Presentation Slot Allocation
(Week 14)
(FYP Committee)

→

Poster Presentation & Evaluation
(Week 15)
(Student, Supervisor, Moderator)

→

Feedback on Amendments/ Corrections
(Week 16)
(Supervisor, Moderator)

→

Final soft copy Report along with Plagiarism checking Report submission
(in eBwise)
(Week 16)
(Student)

Enter Final Marks / Results to Clic
(Week 16)
(Supervisor)

→

Submission of Results to Exam & Records Unit
(Week 17)
(FYP Committee)

Process Flow (Prior to the Start of Project)
(Period: 18 SEP 2024 to 15 NOV 2024)

Please note that the following steps are compulsory, and they must be completed, prior to the start of the FYP.

1. Fill up the **'Pre-FYP Registration Form'** by **30th September 2024 (Monday)**
    Link: https://forms.office.com/r/fPjLNbr1qg

2. Add to the **Teams channel** from **26th September 2024 – 30th September 2024**

3. Attend the **Online Briefing** through Teams, which will be held according to the following schedule:

   2nd October 2024 (Tuesday) from 02:00pm to 04:00pm
   Link: Teams meeting(Software Engineering, Information Systems, Game Development, Data Science and Cybersecurity Specialisations)

Process Flow (Prior to the Start of Project)
(Period: 18 SEP 2024 to 15 NOV 2024)

4. Discuss with the potential supervisors and get confirmed to the approved project (Lecturer-proposed or Student-Proposed). This step must be completed by **28th October 2024 (Monday).** The approved project list will be available in Team's Class and will be constantly updated.

Tentative Timelines for the release of approved project titles in Teams Channel:
First Round: 23rd October 2024 (Wednesday)
Second (Final) Round: 7th November 2024 (Thursday)

5. Once the approved project is confirmed to you through Teams Channel, submit the manual registration form for Clic Registration. This task must be completed by
11th November 2024 (Monday)

Process Flow (Prior to the Start of Project)
(Period: October 2, 2024 to November 15, 2024)
(Summary)

Timelines	Process Steps (Prior to start of FYP1)
2nd October 2024 (Wenesday)	(i) Fill up MS form (ii) Join Teams Channel (iii) Attend online briefing
28th October 2024 (Monday)	Submission of Project Proposals (Student and Lecturer proposed): Final Round
7th November 2024 (Thursday)	Acceptance of Project Proposals by FYP Committee
8th November 2024 (Friday)	Confirmation of Students to the projects by supervisors
11th November 2024 (Monday)	Submission of FYP1 subject registration forms to Teams Channel by students
15th November 2023 (Friday)	FYP1 subject registration by Faculty Admin (Clic)

Pre-FYP Timeline: Reminder

- Students need to secure a project title by **8th November 2024 (Friday)**

- If they fail to do so, students may not be able to take the FYP1 for the OCT/NOV 2024 trimester. Hence the advice is to secure the title soonest possible.

- Note that **there is no supervisor-to-student assignment**.

- Last date for submitting manual subject registration forms in Teams Channel:

    11th November 2024 (Monday)

Activities for FYP1 (T2430) - Summary (1)...

❑ Week 1 and Week 2 : Registration of the subject (FYP1) in Clic
  ➢ Submit manual registration forms to Teams Channel
  ➢ Faculty Admins will do the registration in Clic.

❑ Week 3 to 13 : Meeting of Students with Supervisors and Submission of Meeting Logs in eBwise
  ➢ Minimum requirement: 6 nos.
  ➢ Submission on alternate weeks: Weeks 3,5,7,9,11,13

❑ Week 13: Submission of draft report to supervisor & plagiarism checking via Turnitin

❑ Week 14 Thursday : Submission of final interim report (soft copy) in eBwise and email to your Moderator

Activities for FYP1 (T2430) - Summary (2)...

❑**Week 15:** Oral Presentation
- ➢ Submission of Power Point slides, Prototype and other visual aids (if any) in eBwise

❑**Week 16:** Feedback on amendments/corrections on the report
- ➢ Supervisor/Moderator will communicate on the amendments to the students

❑**Week16:** Submission of amended interim soft copy report submission in Teams Channel along with the submission of project title change requisition form (if needed)

Activities for FYP2 (T2510)-Summary (Tentative)

- ❑ **Prior to Week 1:** Submission of Manual subject registration forms in Teams Channel (student)
- ❑ **Week 1/2 :** Registration of the subject (FYP2) in Clic (faculty admin)
- ❑ **Week 2 to 13 :** Meeting with supervisor on alternate weeks and submission of logs in eBwise (student, supervisor)
- ❑ **Week 13:** Submission of report (soft copy) for Turnitin checking
- ❑ **Week 14 :** Submission of final report (soft copy)
- ❑ **Weeks 15 :** Poster presentation

Application-Based Projects –Interim Report Chapters

- Abstract
- Introduction
- Background Study
- Requirements
  - System Requirements and use technical drawings/tools
- Design
  - Translate the requirements into technical representations for the solution
  - Prototype
- Implementation Plan
  - Plan for the next trimester, Project activities and milestones
- Conclusion

* Pls. check the details available in FYP1 Written Report guidelines for the formatting and consult with your supervisor for the technical aspects.

Research-Based Projects - Interim Report Chapters

- Abstract
- Introduction
- Literature Review
- Theoretical Framework
  - Main theoretical concepts of the domain, discussion of the problems to be further investigated or ideas to be proven
- Research Methodology
  - Description of the approach for demonstrating the concepts/solution
  - Prototype/Simulation
- Implementation Plan
  - Plan for the next trimester, Project activities and milestones
- Conclusion

- Pls. check the details available in FYP1 Written Report guidelines and consult with your supervisor

Assessments

Final Year Project 1 (CPT6314)

Categories	Total Weightage
Project Management	20%
Execution	50%
Report	20%
Oral Presentation	10%
Total	**100%**

Assessments

Final Year Project 2 (CPT6324)

Categories	Total Weightage
Project Management	20%
Execution	35%
Research Paper / Commercialisation Proposal	5%
Report	30%
Poster Presentation	10%
Total	**100%**

Important Points to Note (1)... – FYP1

❑ **Basic Requirements**

❑ **Meetings with Supervisor periodically (Week 3 to 14)**

  ❑ Weekly logs have to be submitted in eBwise and attach them with the interim report. Minimum of 6 weekly logs are required (Weeks 3,5,7,9,11,13)

  ❑ Failure to meet the supervisor periodically may result in

    ❑ Not satisfying the attendance requirement

    ❑ Not allowing the student for submission of interim report/ attending oral presentation

❑ **Submission of Interim Report by Thursday, Week 14**

  ❑ **Late submission will not be allowed.**

  ❑ If the report has not been submitted within the deadline, it would be considered as **'not satisfying the basic requirement'**

❑ **Doing the Oral Presentation**

  ❑ The student should attend the on the time slot allocated.

  ❑ Supervisor and Moderator will normally evaluate the presentation together

  ❑ 30 minutes will be allocated including the Q and A section.

  ❑ Oral presentation will be held during Week 15.

Important Points to Note (2)... – FYP1

❑ **Other Logistics**

➢ **Pre-FYP: All the announcements will be made in Teams Channel**

  ➢ Check Teams Channel periodically for the announcements, timelines etc.

  ➢ List of approved Projects

  ➢ List of attachment of students by supervisors

  ➢ Forms

  ➢ FYP guidelines

➢ **MMU Bulletin Board (Only for preliminary announcement)**

  • Preliminary announcement for the start of FYP process

➢ **Clic**

  • Manual Registration by Faculty

➢ **eBwise**

  • Uploading of FYP reports

Important Points to Note (3) – FYP1

❑Other Logistics

➢**FYP Report should be submitted individually**

- ➢If the project title is common, each student should have a separate subtitle
- ➢There should not be overlap between the contents of the report.
- ➢The student should not change the approved title/subtitle without the consent of FYP Committee.

➢**Plagiarism check must be performed before the submission of interim report**

- ➢Submit the interim report to your supervisor at least one week before the actual submission for corrections and plagiarism checking
- ➢Plagiarism checking (Turnitin) will be done by your supervisor.
    - ➢Similarity index must be less than or equal to 20%.
- ➢After corrections and plagiarism checking, submit the soft copy of the interim report in eBwise on Week 14 Thursday.
- ➢Email the soft copy of interim report to your moderator at the same time.

FYP - Contacts

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