

Hong Kong Polytechnic University
Department of Applied Physics

Briefing of AP40004 Final-Year Project

FYP Coordinator

Objectives

- Credit value: 4
- Duration: 2 semesters
- Project hours: 8 hours/week
- Objectives: to reveal two main aspects of a student's ability:
 - **Initiative** in organizing and following through an investigation
 - **ability** for critical assessment of information
- In the course of doing his/her project, the student also acquires an **in-depth knowledge of a certain topic** in applied physics, materials science/technology, electrical or electronic engineering

Types of FYP projects

- Research project
 - e.g., “Biosensors based on nanomaterials”, “SnS for Na-ion batteries”
 - Projects of different students are **completely independent**
 - like a research project, need to find something new in **basic science**(e.g., new mechanism, new materials, new process/method, etc.)
- Service project
 - e.g., “Development of STEM educational tools”
 - To design some **useful tools/setups for teaching** of physics in the secondary schools

Timeline of Sem1

- Wk 1 –2: Meet the supervisor & start the project
- Wk 4: A BRIEF research proposal (10%)
 - Deadline: 11:59 pm, 30 Sep 2023 (Saturday).
- Wk of 8 Jan 2024: The 1st FYP interview (15%)

Timeline of Sem 2

- Wk 2 –10 : Writing Assistance Programme (WAP) and Speaking Assistance Programme(by ELC)
- Wk8 (tentative): Training of report writing
- Wk11: Submit original FYP report (20%)
Deadline: 11:59 pm, 7 Apr 2024 (Sunday).
- Wk12: Poster Presentation (15%)
- Wk13: Submit amended FYP report based on supervisor's comments (20%)
Deadline: 11:59 pm, 21 Apr 2024 (Sunday).

Proposal, Interview and Presentation(1)

- Project Proposal (online submission)
 - Purpose: what to do, why to do it, how to do it.
 - Must include the following:
 - project title
 - basic description of project
 - background and rationale for the project
 - suggested methods of investigations/ approach
 - Write between 600 to 800 words (Figures excluding)
 - Reference: See this [LINK](#).

Proposal, Interview and Presentation(2)

- Purpose: to report the progress
- Contents: introduction, obtained results, plans
- Duration: 7 min/student
- the supervisor and the coordinator will attend
- Arrive 10 min in advance. Never be late
- Sit in and listen to the talks of the other students of your supervisor

Proposal, Interview and Presentation(3)

- Purpose: to showcase results
- Content: Introduction, obtained results, outlook
- Two parts:
 - Part I: student to prepare a poster, which showcase the project.
 - Part II: Lab visit/ outcome demo (decided by supervisor)
 - Student demonstrates and explains outcomes, either in research lab (for research-based projects) or teaching lab (for other projects)
- Duration: 10 min (lab visit) + 1 hour (poster presentation)
- For preparing the poster, see this [LINK](#).

Grading Criteria

- Based on a collection of factors including (but not limited to)
 - Student's understanding of project background, method, and results
 - Correctness, significance, and completeness of results
 - Level of difficulty & overall workload of project
 - Clarity and conciseness of presentation (understandable to people with a physics background)
- Details refer to Assessment Rubrics.

Marking Scheme

- Three components:
 - Continuous assessment (CA) (including project proposal)
 - Interview
 - Presentation + Demo
 - FYP report
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- Three roles:
 - Supervisor
 - Co-assessor
 - Coordinator

	Supervisor	Co-assessor	Coordinator	Sum
CA	25%		5%	30%
Interview	5%	5%	5%	15%
Presentation + Demo	5%	5%	5%	15%
Report	30%	10%		40%
	↓	↓	↓	Sum
Weight	65/100	20/100	15/100	100%

Other info (1)

- Check email/Blackboard for announcements and files
- **Room CD705** is open for FYP project, except for its class hours
- You may request some storage space in CD705, the unlocked cabinets of the first bench near the doors



Other info (2)

- Final-year reports 30 ~ 40 pages in total
- Template & format requirements will be given in Sem2
- Project budget
 - About HKD1,000/student
 - Buy and pay by yourself, keep the receipts and claim
 - Guideline and claim form available at Blackboard->content
 - 1st deadline for submission of claim form is 29 Nov 2022
 - 2nd deadline for submission of claim form is 18 Apr 2023
 - If you purchase before 30 August 2022, please submit your claim form **within 3-month of purchase**
 - For expensive equipment/cost, ask your supervisor

Other info (3)

- Note the ILO 'be able to demonstrate a sense of responsibility and accountability' (Refer to SDF)
- This is **GENERALLY EXPECTED** throughout the project period
- Students not meeting supervisors on a regular basis **WILL SCORE ZERO** in CA (30%).
- late submission for proposals/ reports **WITHOUT PRIOR APPLICATION** will be **DEMOTED BY ONE LETTER GRADE EACH DAY** for the corresponding component.