

Department of Chemical Engineering & Materials Science
Announcement of the Preliminary Exam of Master Thesis for the Academic Year 2024-2025

I. Subject: Registered full-time and part-time MS students

II. Timeline of the preliminary exam

| Semester | Application for the preliminary exam(form B) | Preliminary oral defense | Application for the MS thesis oral defense(form C) | The makeup defense |
|----------------------|------------------------------------------------|-----------------------------------------------|----------------------------------------------------|-------------------------------|
| 2023 fall semester | On/before 12 : 00 noon Aug. 23, 2024 | Sep. 2, 2024 (during the summer break) | Sep.9 to Nov.13, 2024 | (Friday) Oct. 18, 2024 |
| 2024 spring semester | On/before 12:00 noon Jan. 03, 2025 | Jan. 15~17, 2025 (after Final Exam) | Mar.3 to Apr.11, 2025 | (Friday) Mar. 28, 2025 |

III. Classification of the MS thesis preliminary exam

- (i) Candidate's thesis classification: The candidate's thesis will be categorized by resorting to the research fields of the Chemical Engineering Society and the National Science Council, followed by the further classification of five main topics based on committees' specialties.

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|-------------------------------------------------|--------------------------------------|--------------------------------------|------------------------------------------|
| 1.Transport Phenomena and Separation Technology | 2 Catalysis and Reaction Engineering | 3.Thermodynamics and Surface Science | 4. Process Engineering |
| 5.Polymer Chemistry | 6. Polymer Physics | 7. Polymer Processing | 8. Electrochemical Engineering |
| 9. Biochemical Engineering | 10. Biomedical Engineering | 11.Nano and Inorganic Materials | 12. Environmental Engineering and Safety |
| 13. Food Engineering | 14. Applied Chemistry | 15. Energy Technology | 16. Others |

- (ii) Classification of committee's specialties: A: polymer science; B: the biochemical engineering; C: material science; D: process engineering; E: the sustainable development.

Note that candidates' preliminary exams should be arranged by their corresponding advisor, with the assistances from department secretaries.

IV. Guideline of the preliminary exam

- (i) The time slot of each candidate's oral defense is set to 30 minutes. Ten minutes for the oral report of research progress, while the rest is for committees' queries and suggestions.
- (ii) Key checkpoint in the preliminary exam
- (a) The profound understanding of candidate's research field and progress.
- (b) The future plan of ongoing study. Worth noting that the proposed plan should be presented and specified in detail, the clearer the better. At least three slides should be prepared.
- (iii) If it is necessary to arrange a pre-oral rehearsal prior to the oral defense, it should be carried out prior to the scheduled time of the Department's oral defense. Obeying the aforementioned regulations shall the candidate apply for the preliminary exam, excluding thesis advisor in the committee.
- (iv) Note of the makeup defense: Considering the differences of research progress of unqualified candidates, the makeup defenses should be arranged prior to the due of scheduled date by each research group. Subsequently, the preliminary evaluation form should be filled and submitted to the Department. The member of committee in the makeup exam should obey the followings:
- (a) At least one member from the preliminary oral defense.
- (b) Candidate's advisor should be excluded.
- (v) Miscellanies:
- (a) Prior to the preliminary exam, committee member should be reminded by each participated group. During the period of exchanging committee members, each participated group should inform the committee member of the follow-up exam.
- (b) To know more about the whole procedure of preliminary exam, please refer to the announcement of "graduation oral defense procedure." To download relevant forms: [download here](#)