 **Process of Ph.D. Dissertation Defense**

1. IP-HSM encourages students to have dissertation defense and its approval by the end of the sixth semester and for dissertation defense, students should follow Dissertation Defense Timeframe (PS6-1). Student who is qualified to take the dissertation defense examination is those who complete the following criteria:
	1. Student must register for all subjects according to the program criteria for graduation and achieve a cumulative GPA of ≥ 3.00;
	2. The dissertation title is approved not less than 60 days starting from the day when the dissertation title and the Dissertation Advisory Committee are approved by the Dean of Graduate school;
	3. Student provides evidence that part of his/her dissertation has been submitted to the journal in ISI database (with impact factor) for publication (i.e. Submission confirmation e-mail or Letter of acceptance for publication);
	4. Student with ID started from 61 and later on must qualify with English proficiency before thesis or dissertation defense;
	5. Student must submit the dissertation through CU i-Thesis via the following link. <https://ithesis.grad.chula.ac.th/>

For more information about the Dissertation Submission through CU i-Thesis process, please see the attachment.

* 1. Student does need to submit the dissertation file to verify for plagiarism-prevention via Turnitin Program and dissertation advisor must sign for acknowledgement.
1. **After a draft of i-Thesis is approved by the advisor**, **the student arranges the examination date with advisor and** student should propose a dissertation defense date and time using the “Doodle” online calendar tool

2.1 Student should send a confirmation e-mail to all committee members once the dissertation defense date and time of examination is confirmed the inform the program officer (Ms.Walanya : walanya.k@chula.ac.th) to reserve a room for the defense examination.

 2.2 The student can proceed the next step of the examination invitation process as shown in the following. **“Request of invitation letters to the dissertation committee” form** and the **“Invitation letter to dissertation examination”**

2.3 Please contact Ms.Nasima  “Request of invitation letters to the **dissertation committee**” (Nasima.p@chula.ac.th) **at least 3 weeks in advance** before the examination date

1. After receiving invitation letter from the program, the student is responsible for delivering the invitation letter along with the dissertation manuscript and abstract to the Examination Committee **at least 2 weeks in advance** before the examination date.
2. Student carries out the dissertation examination on the specified date and time.
3. Student does need to prepare a copy of the power point presentation (4 slides per page is recommended) for the examination committee.
4. Student prepares a snack and refreshment for the examination committee.
5. The dissertation Chairman must finalize the exam result of the dissertation to students and students who pass dissertation examination, they must revise dissertation according to the recommendation of the dissertation committee, resubmit to the advisor for approving and lastly submit the result of a revision of dissertation to Graduate School. Levels for dissertation defense assessment are: Very good, Good, Pass and Fail.
6. The student submits the final dissertation file to the Program in order to be verified for plagiarism-prevention via Turnitin Program which will be resulted in scores. Dissertation advisor must sign for acknowledgement.
7. The student gets all relevant signatures on the final dissertation write-up and submit it according to the announced procedures by Graduate School.

Remark: For more information, please see the following link. <https://www.grad.chula.ac.th/en/news_detail.php?news_id=486&cat_id=1>

# Requirement for Ph.D. Graduation

1. Fulfill English language requirement
	* Required English proficiency score for graduation

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | CU-TEP | TOEFL (PAPER) | TOEFL(CBT) | TOEFL(iBT) | TOEFL(ITP) | IELTS |
| Ph.D. | 75 | 550 | 213 | 79 | 550 | 6.0 |

1. Attain publication requirement
* At least, the first manuscript on their Ph.D. dissertation is required to be accepted for publication in journal in ISI database (with Impact Factor) or Scopus database (with SJR score) and the second manuscript is submitted to journal in ISI database (with Impact Factor) or Scopus database (with SJR score).
* For Ph.D. students who receive IP-HSM M.Sc. graduate scholarship, an additional manuscript from their M.Sc. thesis is required to be published in journal in ISI database (with Impact Factor) or Scopus database (with SJR score).
* Students have to notify IP-HSM office of their participations and submissions of their research works to any conferences and journals.
* Students must state their affiliations for their presentations and publications as followed:
1. International Program in Hazardous Substance and Environmental Management, Graduate School, Chulalongkorn University, Bangkok 10330, Thailand
2. Center of Excellence on Hazardous Substance Management (HSM), Chulalongkorn University, Bangkok 10330, Thailand
* For published manuscripts, reprints are required.
* For accepted manuscripts, acceptance letters from journals are required.
* For submitted manuscripts, submission confirmation pages from journals are required.

 • Complete all payment for tuition and fee and instrumental analysis