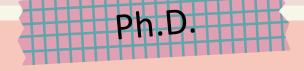


Department of Environmental Engineering, Faculty of Engineering, Chulalongkorn University

Requirements for graduation

Master's Degree

- Coursework 24 credits (compulsory 18 electives 6)
- Thesis 12 credits
- CU-TEP score ≥ 45 (no course required)
 CU-TEP score 30-37 : completed 2 courses
 CU-TEP score 38-44 : completed 1 course
- Present at 1 conference (national level at least)



- Number of credits depends on the program (contact ajarn On-anong)
- CU-TEP score ≥ 67 (no course required)
 CU-TEP score 45-60 : complete 2 courses
 CU-TEP score 61-66 : complete 1 course

mm

- Publish 2 journal papers
- The article submitted to the conference must be a <u>full paper</u> only
- The submitted article must undergo a <u>reviewer's</u> comment
- The presentation must be an Oral presentation only (can be via online)
 (Poster presentation is not acceptable)
- The conference must have a conference proceeding (can be a hard-copy print or an electronic file)

4 main steps

Submit the intent to defend your thesis

Defend thesis and revise as per committee's comments

Submit documents to The Graduate School and The Faculty's Registrar

Clearing of research grant reimbursement (everyone must do)

Submit the intent to defend your thesis

Prepare documents as follow

Thesis Defense Request form

1. Thesis defense request form (Must be typed only, no hand-writing)

Dep	iartment of Divinormental Engineering, Faculty of En Master Program D Ph.D. (
	☐ Lst ■ 2nd Semester, Academic Year 20,2	
lo Head of Environment arc Bonita	st Engineering department, Master Pen × PhD producte in 20s	deeur, suident in m6272049021 et _0925808847.
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		ind Hubble Dynamics in Hubble Column Reactor
The section of the		online in (examing) Malaysia
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read of Environmental Engineering department.

(Assoc. Prof. Wiocontuit Pungrasmi, Ph.D.) Secretary to the Master Program Committee Downloadable from the department's web site:

http://env.eng.chula.ac.th
Carefully check the correct level (Master's/ Ph.D.) at the top section of the document

Example of the form



Submit the intent to defend your thesis (cont.)

- 2. Accompanying documents
- 2.1 Academic record (CR60)

ใหลดจาก Reg-Chula

2.2 English proficiency test score (CU-TEP) —

From CU-TEP system, if your score was qualified since your admission to the program, you can use the same score document.

2.3 Evidence from the faculty that your

thesis proposal was approved

ผลการพิจารณาโครงร่างวิทยานิพนธ์/สารนิพนธ์ (นิสิต)

Chula iThesis <ethesis.grad@gmail.com>

Sat 12/8/2018 7:41 PM

To: Tanapong Ouppatampanon <6070204921@student.chula.ac.th>

สำเนาเรียนนิสิตชื่อ นายธนพงศ์ อุปถัมภานนท์

เรื่อง ผลการพิจารณาโครงร่างวิทยานิพนธ์/สารนิพนธ์

ระบบ CU iThesis ได้รับผลการพิจารณาโครงร่างวิทยานิพนธ์/สารนิพนธ์จากอาจารย์ที่ปรึกษาหลัก (รศ. ดร.วิบูลย์ลักษณ์ พึ่งรัศมี) ของนิสิตชื่อ นายธนพงศ์ อุปถัมภานนท์ รหัส 6070204921 หลักสูตร วิศวกรรมศาสตร มหาบัณฑิต วิศวกรรมสิ่งแวดล้อม ภาควิชาวิศวกรรมสิ่งแวดล้อม คณะวิศวกรรมศาสตร์ หัวข้อ ประสิทธิภาพของถัง ปฏิกรณ์ไร้อากาศชนิดฟลูอิดไดช์เบดแบบไม่เวียนน้ำที่ใช้พีวีเอเจลเป็นดัวกลาง (Performance of non-recirculation anaerobic fluidized bed with PVA-gel as media) เรียบร้อยแล้ว เมื่อวันที่ 8 ธันวาคม 2561 เวลา 19:40:53 น. โดยมีผลการพิจารณาเป็น "อาจารย์ที่ปรึกษาหลักเห็นชอบโครงร่างวิทยานิพนธ์"

จึงเรียนมาเพื่อโปรดทราบ

บัณฑิตวิทยาลัย จุฬาลงกรณ์มหาวิทยา<mark>ลัย</mark> หากมีข้อสงสัยประการใด กรณาติดต่อ grad@chula.ac.th

Example of thesis proposal approval

Submit the intent to defend your thesis (cont.)

2.4 Evidence of thesis upload to the CU-iThesis system with the confirmation from your advisor

ผลการพิจารณาวิทยานิพนธ์/สารนิพนธ์ฉบับร่าง (สำเนา: นิสิต)

ethesis.grad3@gmail.com <ethesis.grad3@gmail.com>

Mon 8/3/2020 2:26 AM

To: Tanapong Ouppatampanon <6070204921@student.chula.ac.th>

สำเนาเรียนนักศึกษา นายธนพงศ์ อุปถัมภานนท์ เรื่อง ผลการพิจารณาวิทยานิพนธ์/สารนิพนธ์ฉบับร่าง

ระบบ CU iThesis ได้รับผลการพิจารณาวิทยานิพนธ์/สารนิพนธ์ฉบับร่างจากอาจารย์ที่ปรึกษาหลัก (รศ. ตร.วิบูลย์ลักษณ์ พึ่งรัศมี) ของนักศึกษาชื่อ นายธนพงศ์ อุปถัมภานนท์ รหัส 6070204921 นักศึกษาหลักสูตร วิศวกรรมศาสตรมหาบัณฑิต วิศวกรรมสิ่งแวดล้อม ภาควิชาวิศวกรรมสิ่งแวดล้อม คณะวิศวกรรมศาสตร์ หัวข้อ ประสิทธิภาพของถังปฏิกรณ์ไร้อากาศชนิดฟลูอิดไดซ์เบดแบบไม่เวียนน้ำที่ใช้พีวีเอเจลเป็นตัวกลาง (Performance of non-recirculation anaerobic fluidized bed with PVA-gel as media) เรียบร้อยแล้ว เมื่อวันที่ 3 สิงหาคม 2563 เวลา 02:26:12 น. โดยมีผลการพิจารณาเป็น "อาจารย์ที่ปรึกษาหลักเห็นชอบวิทยานิพนธ์ฉบับร่าง"



-

บัณฑิตวิทยาลัย จุฬาลงกรณ์มหาวิทยาลัย หากมีข้อสงสัยประการใด กรุณาติดต่อ grad@chula.ac.th

Example of uploaded thesis confirmation

- 2.5 Evidence of publication/presentation (Certificate/email of acceptance for presentation)
- 2.6 English-language manuscript
- 3. Thesis report file (1 separate file)



Submit your intent to defend

After preparing all documents, combine them in PDF format making documents in item 1 and 2 as one PDF file. Then send the combined file and the thesis (item 3) to the secretary email (thesisenvengcu@gmail.com)

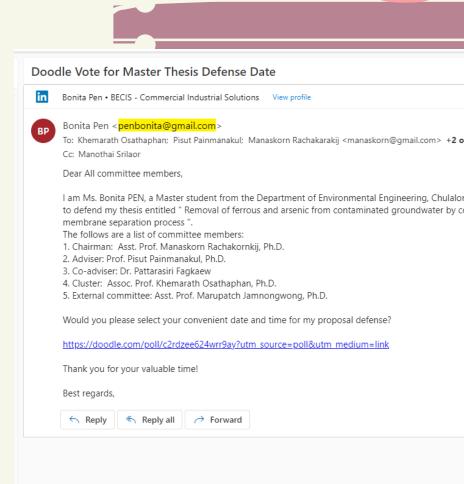


Making an appointment by Doodle

- Pick time slots (8-10, 10-12, 13-15 and 15-17)
- Email the Doodle poll to all committee members and cc. to thesisenvengcu@gmail.com everytime. The email must have this attachment included
- 1. Assessment form before defense (B.3)
- 2. The link for Doodle poll
- 3. Thesis file

Example of an email sent to committee





After the defense date is finalized

***email to confirm the date/time to all committee members (no need to send separately)

- Prepare the form B.2 (download from the department's web site)
 By signing in this order student > advisor > chair > the program director
 and then send to thesisenvengcu@gmail.com and then wait for reply from the faculty
- Send the documents received from The Graduate School of Faculty of Engineering including the following (can be sent 3 days prior to the defense date)
 - 1. Defense result report (everyone)
 - 2. Publication report form (everyone)
 - ***attach with the form B.2 from the faculty***
 - 3. Assessment form for excellence acheivement if qualified (everyone)
 - ***included with the form B.2 from the faculty if qualified***
 - 4. Defense assessment form (everyone)
 - 5. Presentation slides (everyone)
 - 6. Zoom link for the defense (everyone) (student creates the zoom link) watch instruction at https://www.it.chula.ac.th/service/chulazoom/
 - 7. Invitation letter from the Faculty (email to external committee)

Revision after the defense

- Revise your thesis corresponding to the committee's comments shown in the
 Defense result report (discuss with each committee and your advisor to
 confirm where and how should the revision be made)
- Make a table summarizing your reviews as in the example. Indicate where

and what were the revisions.

 Upload the finalized thesis report in iThesis system

Example of revision table





Thesis Revison

Tittle: Removal of ferrous and arsenic from contaminated groundwater by co-precipitation coupling with membrane separation process

Student's name: Bonita Pen

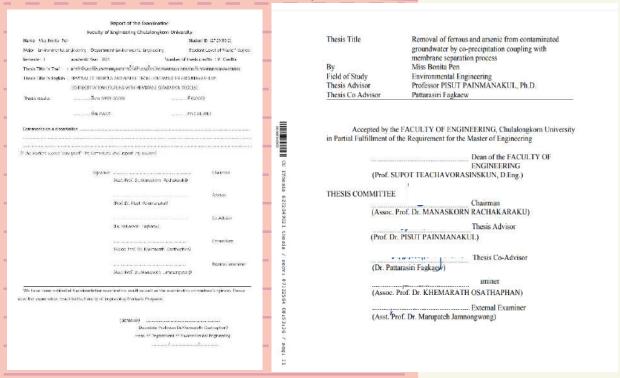
ID: 6272049021

Chapter	Page	Comment/Question	Revision/addition information
Assoc. Prof. Dr. Ma	naskorn Rach	akarakij	
1. Recommendation	131st	Adding MRLs of Arsenic and Iron in Groundwater	An MRL of 0.005 mg As/Kg/day has been derived for acute-duration (14 days or less) oral exposure to inorganic arsenic. An MRL of 0.0003 mg As/Kg/day has been derived for chronic-duration (365 days or more) oral exposure to inorganic arsenic.
2.Chapter 4	107 th -109 th 95 th -97 th	Validation Equation by Regression	$\begin{aligned} &\text{Iron: } Y_1 = 0.8871x + 9,1499 \\ &R^2 = 0.8854 \\ &Y_2 = 0.6971x + 23.812 \\ &R^2 = 0.6972 \\ &\text{Arsenic: } Y_1 = 0.8591x + 11,196 \\ &R^2 = 0.8588 \\ &Y_2 = 0.534x + 34.887 \\ &R^2 = 0.5337 \end{aligned}$
Prof. Dr. Pisut Pain	manakul	1	
3.Chapter 4	127 th	Diagram of arsenic and iron removal mechanism	Arsenic and iron removal by co-precipitation and adsorption diagram is shown on page 118 th
Assoc. Prof. Dr. Kho	emarath Osat	haphan	
4. Recommendation	131 th	Further observation of co-precipitate particles	Co-precipitated particles should be analyzed by XRD or

Revision after the defense

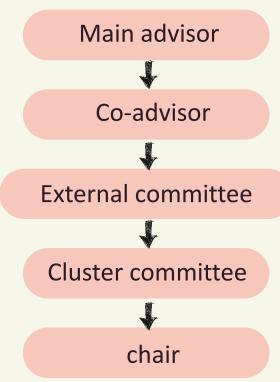
Send email to the committee with these attachments

- 1. Thesis revision table
- 2. Thesis approval form (extract just this page from the thesis report)
- 3. Thesis defense result report





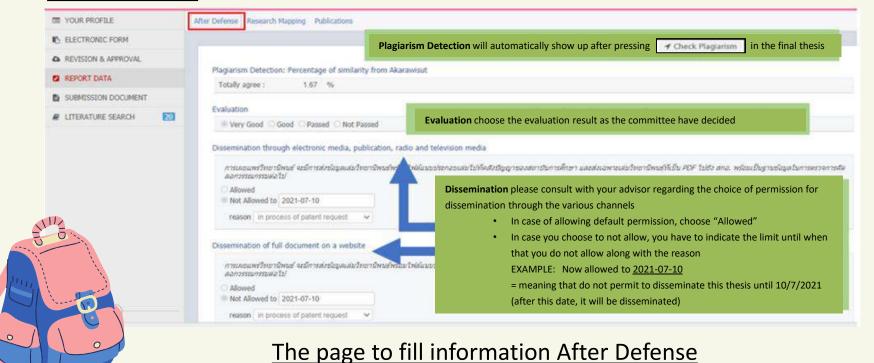
Email to committee to collect signatures in this order



Once all committee have signed the thesis approval and thesis result report

- Go to the iThesis web page, then go to 'Report Data' section on the left panel
- Complete the information in 3 subsections***consult with your advisor how to fill information in each subsection***

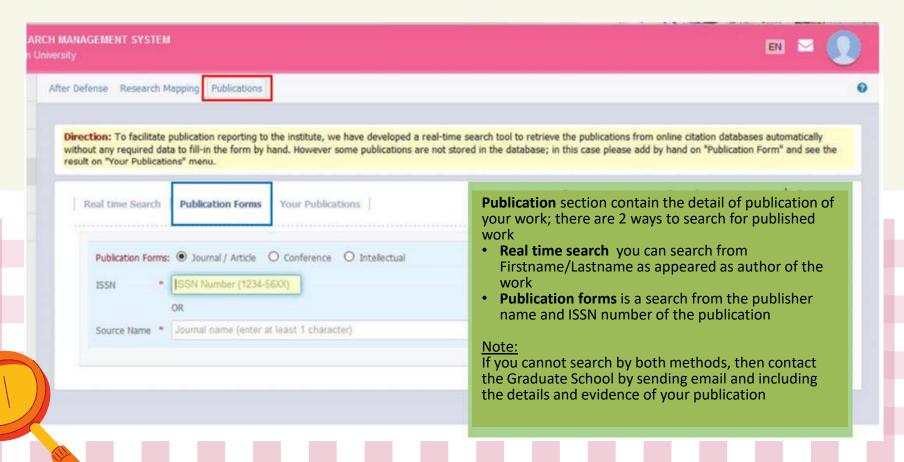
After Defense



Research Mapping



<u>Publications</u>



Filling information in Publications section

- After filling information in the 'Report Data' section
- Press submit to send the complete thesis for your advisor to approve
- After the advisor approves, the status will show 'Complete'



Example of the thesis approval page in iThesis system

After the advisor approves the thesis, the student can no longer make any changes to the thesis. If there is really a need to make any change, you must indicate the page to edit and notify the advisor to allow the change then wait for the Graduate School staff to give permission to make changes

After the advisor approves the thesis, the status will show 'Complete'

 Go to 'Submission Document', you can download the cover page to submit thesis

after that the student sign and request the advisor to sign document.php 1/23 IN ELECTRONIC FORM REVISION & APPROVAL REPORT DATA **SUBMISSION DOCUMENT** ■ LITERATURE SEARCH DOCUMENTS FOR SUBMISSION OF COMPLETE THESIS 6170433321 MissKittiya Samlansin / น.ส.กฤติถูก สำราญศิลป์ Field of Study: Environmental Engineering Faculty/Institute/College: FACULTY OF ENGINEERING Level of Study: Master of Engineering Phone number: E-mail address: 6170433321@student.chula.ac.th ผลของตวามเดิมและในเครพตอระดับสขภาพในปะการังเขากราง (Acropora sp.) ปะการังจาน (Turbinaria sp.) wardenniklen (Porites sp.) THE EFFECTS OF SALINITY AND INTRATE ON CORAL HEALTH LEVELS IN BRANCHING CORAL (Acropora sp.) DISC CORAL (Turbingrig sp.) AND MASSIVE CORAL (Porities sp.) Count the total of pages: 156 page(s)

After the advisor signs the submission document

Make an official letter (official letter head indicating the department)
 to send the thesis to the Faculty of Engineering (Form B.4)



candidate

(Ms. Bonita Pen.)



Example of an official letter to send thesis to the Faculty

After the advisor signs the submission document

 Fill information in 'Academic Presentation Report' and include the article (the whole file)

	Academic Presentation Report for Graduate Student
	Academic presentation of graduate student by publishing in academic journal at national or international level
Student II	or by presenting at national or international scademic conference D no. 6272049021 Nume Bonila Pen

Degree	
	Environment Department Environmental Engineering Advisor Prof. Pisat Painmanakai, PhD
Thesis To	picRemoval of Ferrous and Arsenic from Contaminated Groundwater by Co-precipilation Coupling with
0.0043388	Membrane Separation Process
would lik	to inform the academic presentation report with exact details appeared in the academic journal or conference
1	The 7th International Conference on Environment 2021 (ICEV 2021)
	NAME OF STREET O
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	Presented in the conference at Malaysia (Online) Beatl's List Publishers Journal Year 2021
Level	▼ International National Data base SSI SSCOPUS TCI Others
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3	
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Others	obtained a patent Obtained a perty parent filed a patent filed a perty parent others
Name Co	
	NY 00-1017
Advisor's	Signature Tel 0925808847 Date 10/12/2

Effect of Solid Media Addition on Mass Transfer and Bubble Dynamics in Bubble Column Reactor

Bonita Pen¹, Phaly Ham^{1, 2, 3}, Saret Bun², Pattarasiri Fagkaew¹ and Pisut Painmanakul^{1, 4, 5, 0})

**Deparament of Environmental Engineering, Faculty of Engineering,
Chalalongkom University, Bangkok 19330, Thadand

**Faculty of Hydrology and Water Resources Engineering,
Institute of Technology of Cambodia, Phonon Peath 121.56, Cambodia

**Water and Environments exactly bits, Research and Innovation Center,
Institute of Technology of Cambodia, Phonon Peath 121.56, Cambodia

**Center of Excellence of Environmental and Hasardens Waste Management,
Chalalongkom University, Bungkot 102.00, Thadand

**Research Unit on Technology for Oil Spill and Contamination Management,
Chalalongkom University, Bangkork 10330, Thadand

**Corresponding author: pust, pigénula ac.th

Abstract. The development of a hubble column ceated (BCQ) has been investigated in terms of various related disposal for improving gas-liquid mass transfer. However, a comprehensive analysis of additional solid media in the multi-phase reactor for enhancing coygen transfer performance is still invited. Therefore, the present work aims to analyse the relative affects of differ antisolid insolid types and operating conditions on coygen mass bransfer coefficient (Ka2) and by development inhibite parameters (a. bubble area distribution (Ds) and bubble issue generally (Wo), in DCA. If was bested with different types of solid media (plante tring, accounting spreage, excuring part, and activated curbon form), superficial gas velocities (Vg) (0.18 – 0.94 × 10.87 m.s.), and solid media leading (3.94 – 1.059, The reard) from the first that the test is effect on bubble beach up and bubble incorsisty velocity. Pertherence, the societing aproage and accounting activated and the properties of the solid in the springer of 3%, but the plante range and activated carbon form reached the optimizers A at the highest leading (10%), However, at higher leading (-3.93), the societing gad tended to leave (1.93), the societing proprehase bubble excels to be because for much leading (10%). However, at higher leading (-3.93), the societing gad and planter in ceal to be the societies of a societies and accountables at the reactor bottom due to its higher density. At Vg 0.94 × 10.76 m.s.², the bubble size distribution was found to be smaller by societing approaches bubble size distribution was found to be small of the properties of the properties of the properties of the reactive of the first probable of the reactive of the first probable size distribution was found to be small of the properties of the proper

INTRODUCTION

Mass transfer of oxygen from a gas form to a liquid form is a significant process parameter in gas-liquid contactor. The transfer of oxygen gas into a liquid is a gas absorption process required in many industrial processes, such as unstawater treatment by neroble processes to biotechnology processes [1]. Typically, a bubble column reaction is multi-phase reaction device commonly used by gas-liquid contractors. It has many benefits, including simple installation, low performance and maintenance costs, and high mass transfer rates [2]. However, the oxygen transfer is still limited from a grascous phase to a liquid phase because of poor solubility in water [3]. Several researchers have

Check all documents all must be signed *** must be signed *** arrange into 3 files (email to thesisenvengcu@gmail.com) including

File # 1 Please sign the thesis of...

- Office letter to send the thesis (B.4)
- Cover page for thesis submission (from iThesis system)
- Thesis approval page (all signed)
- Thai abstract (all signed)
- English abstract (all signed)

File # 3 Dissemination document of...

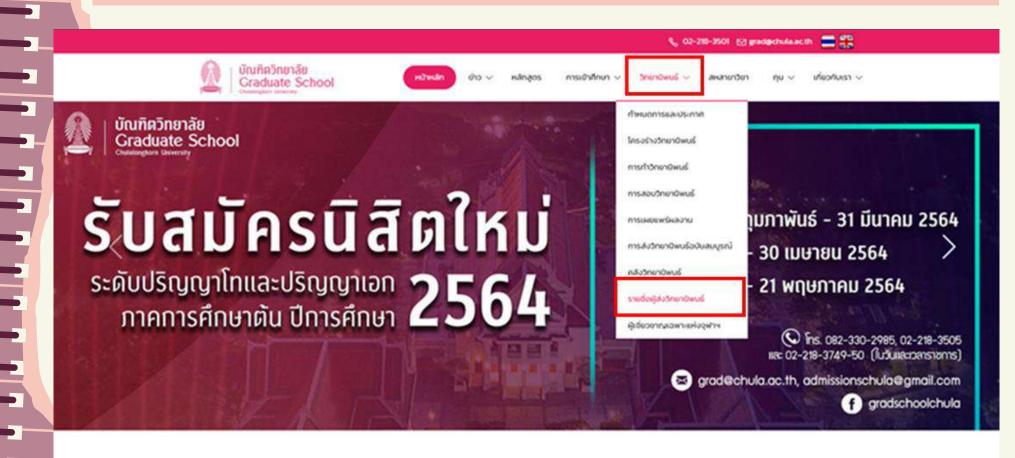
Thesis dissemination document

File # 2 Thesis defense result report of ...

 Thesis defense result report form along with the Academic Presentation Report and the article file combined into 1 single file



After sending all the documents, you can check in the page of the Graduate School, if you see your name that means you have graduated



Clearing of research grant reimbursement

After you have graduated, you must contact the Department's admin staff (contact p'Pao) to clear you research grant reimbursement (even no lab work, you still need to clear this) Prepare the following:

 Receipts for reimburse thesis supporting fund (download from the Department's web site) (see next page)

Master's 15,000 Baht

Ph.D. 60,000 Baht

***in case you did lab work, you must clear the usage of equipment/area and return all lab equipment

Contact instructor Jib and Poom***

Document clearing for laboratory usage (Form for graduation at the Graduate level)

Once you clear the equipment/area with the lab instructors, the advisor, all lab instructors, and Department head must sign in the Request for graduation form (downloadable from Department's web page)



Example for lab clearing form >>

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Submit the research grant reimbursement and lab clearing forms in Google form

After clearing the research grant reimbursement and lab usage, you have to submit the documents: research grant reimbursement (only the cover page with p'Pao's signature) and the lab clearing form (all signed) by uploading to the Google Forms at https://forms.gle/BfzkWCcGmJppperv6



