

Orientation 2/2023

before research conduct

JGSEE 1 Meeting room
8 January 2024, 1.30 pm





Course works
- Compulsory
- Elective

-Proposal
-Course
works

- Progress exam in each semester
- Internsh ip exam in 3rd semester

After
complete
research
work

Fulfill the
requirements

Thesis Proposal

- AS 10 Dissertation Proposal Form
Deadline of submission Jan 19
- Thesis Proposal Examination (CE/QE)

Thesis proposal Form (AS10)

Topic &
Committee
name's nominate

Objective &
Methodology

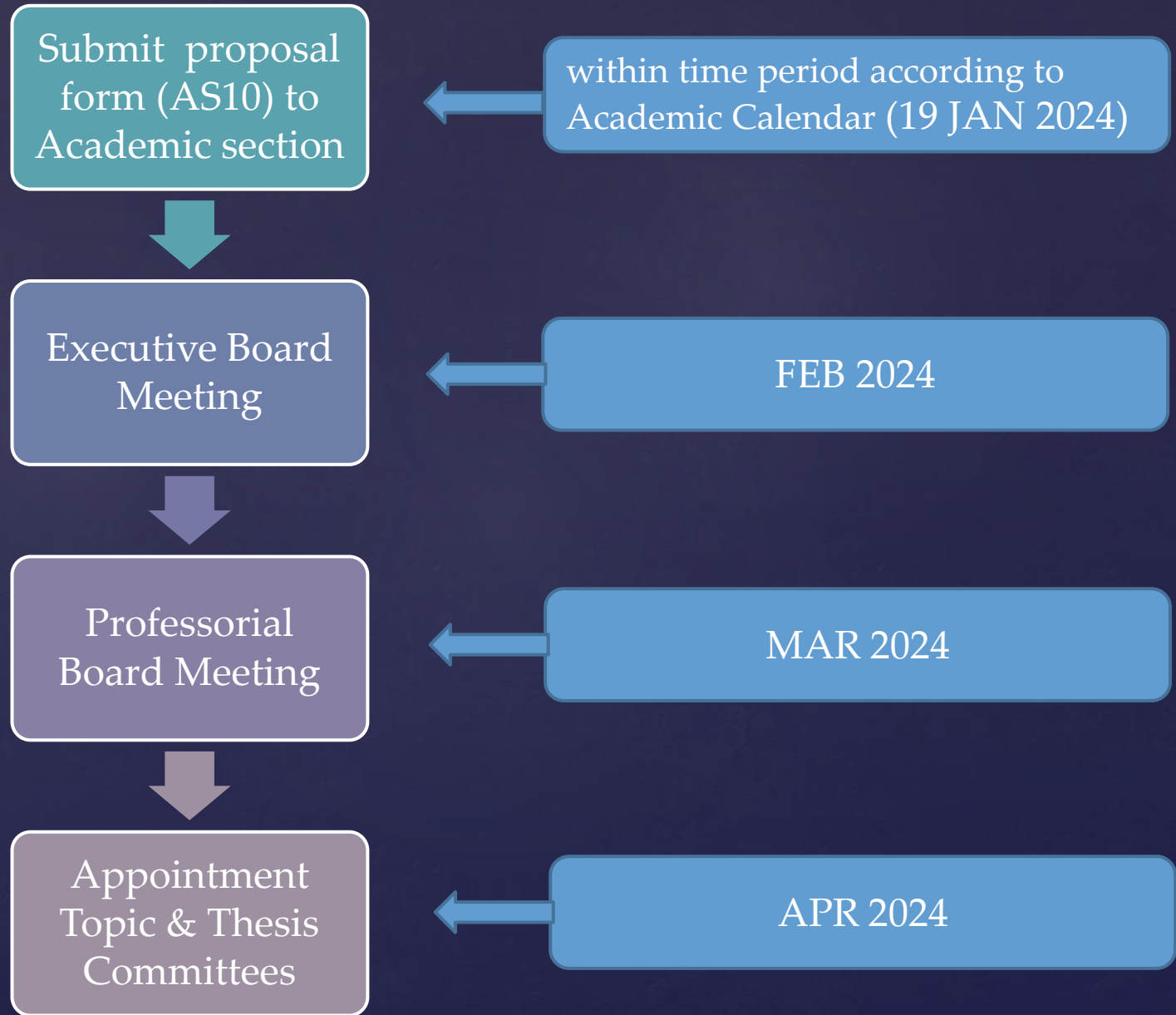
Thesis abstract

Committee CV

Research Budget

Deadline of submission is on 19 January 2024

Thesis Topic & Committees Approval



Comprehensive Examination (CE)

Only PhD

Evaluate the student's ability in

- Analysis
- Synthesis of information
- Identifying important issues
- Making comments

Student select 3 Technical papers relate to research work

Fail the examination, one more chance to take re-exam

- **Failure in 2nd exam = retire**

Qualifying Examination (QE)

Thesis proposal examination

For Master and PhD

- PhD must pass the CE

Evaluate the student's ability in

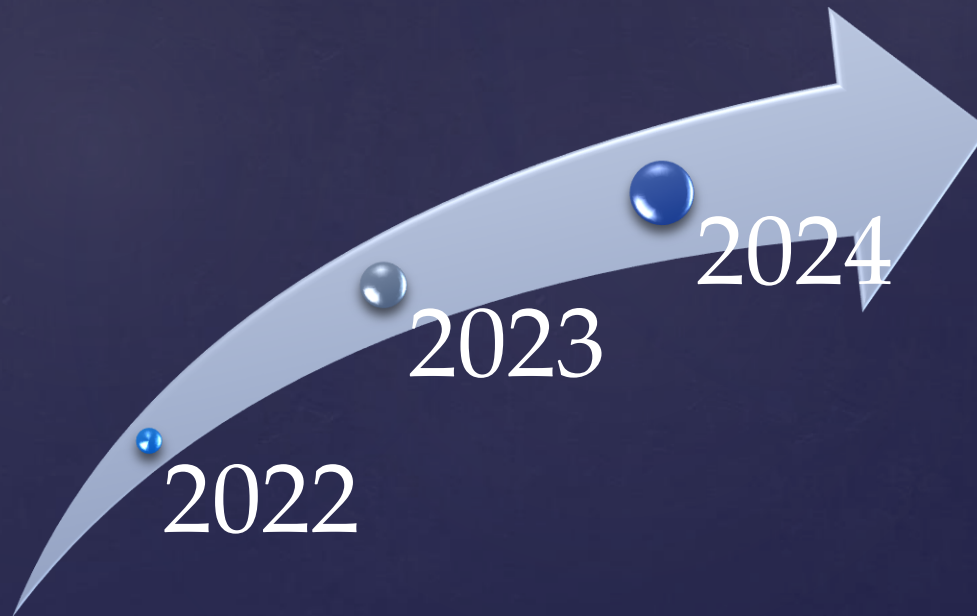
- Readiness to undertake the proposed thesis work
- Thesis work must be original
- The work should indicate some initiative, which may lead to a new concept, approach or new finding

Fail the examination, one more chance to take re-exam

- **Failure in 2nd exam = retire**

Research Integrity (RI)

Graduate student who enrolls in year 2022 onwards must take theoretical training and practical training courses before taking a Qualifying Examination (QE)



Research Integrity (RI)

1. **Theoretical training course:** A self-study online course via CITI Program (www.citiprogram.org), offered in English language.
2. **Practical training course:** Online course offered by Research, Innovation and Partnerships Office (RIPO), KMUTT. For Thai language, the training will be held every month, for English language it will be held 3-4 rounds in a year.

The training will be announced on RIPO website (<https://ripo.kmutt.ac.th>).
The Academic Section of JGSEE will inform all JGSEE faculty & researcher when there is the announcement from RIPO.

Theoretical training course



Completion Date 07-Jun-2022

Expiration Date 06-Jun-2025

Record ID 48218224

This is to certify that:

Dieudonne Manirampa

Has completed the following CITI Program course:

Not valid for renewal of certification
through CME.

Responsible Conduct of Research

(Curriculum Group)

Master's Students (RCR)

(Course Learner Group)

1 - RCR

(Stage)

Under requirements set by:

King Mongkut's University of Technology Thonburi

CITI

Collaborative Institutional Training Initiative

Verify at www.citiprogram.org/verify/?w17b19eae-4361-4b99-82f9-0f2b039ca8dd-48218224

Practical training course



King Mongkut's University of Technology Thonburi

Certificate of Completion

This is to certify that

Mr. Dieudonne Manirampa

has attended and completed the Research Integrity Online Workshop
according to the Research Integrity Policy B.E. 2564, on 27th May 2022

Entitled

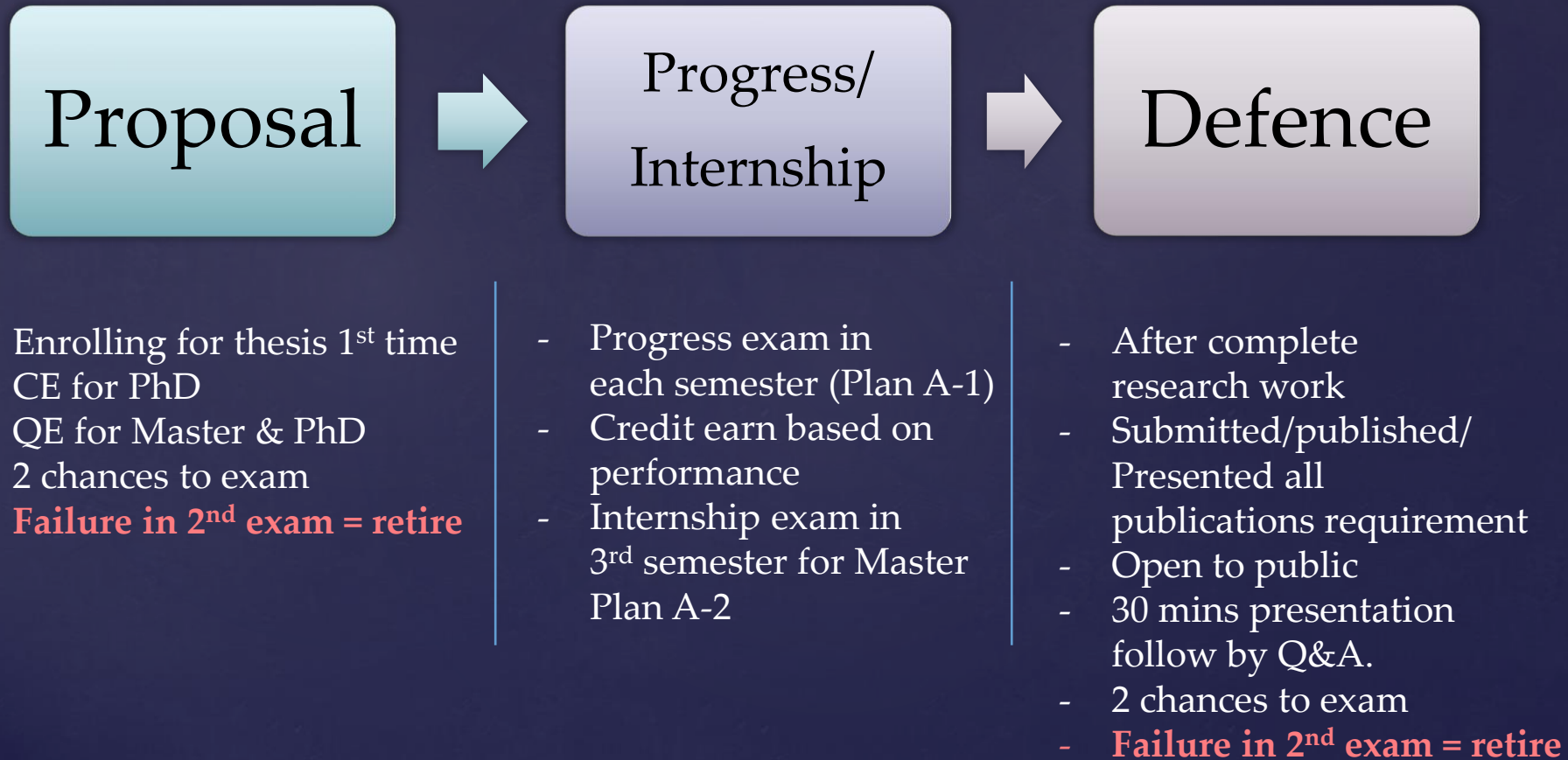
Research Misconduct

(Assoc. Prof. Dr. Suvit Saetia)
President of King Mongkut's University of Technology Thonburi

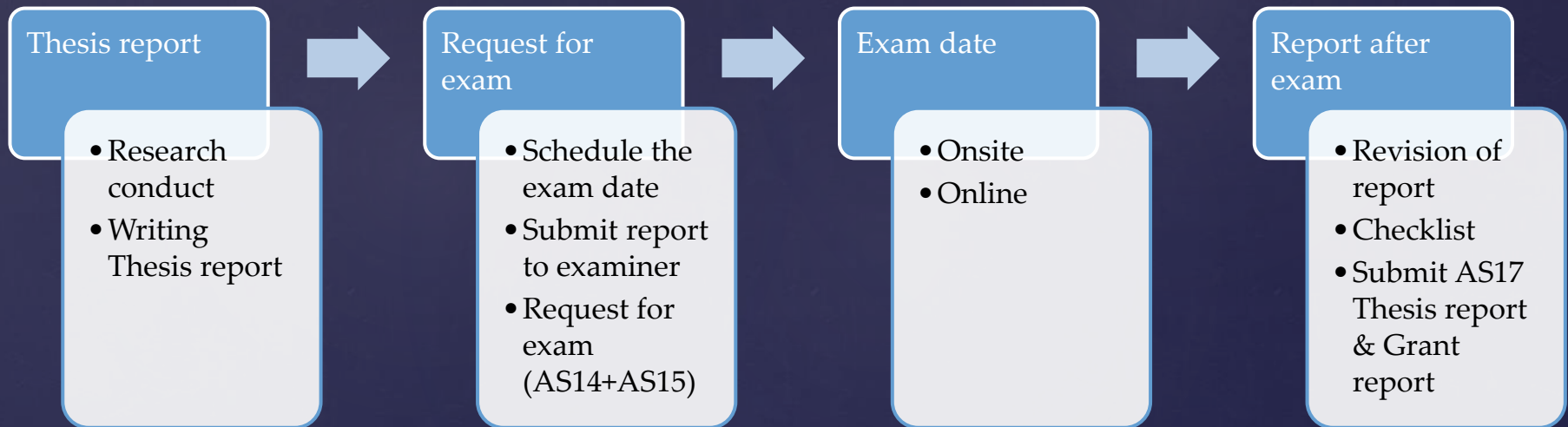
KMUTT-RI-2022-996

Expiration Date: 26 May 2025

Thesis Examination

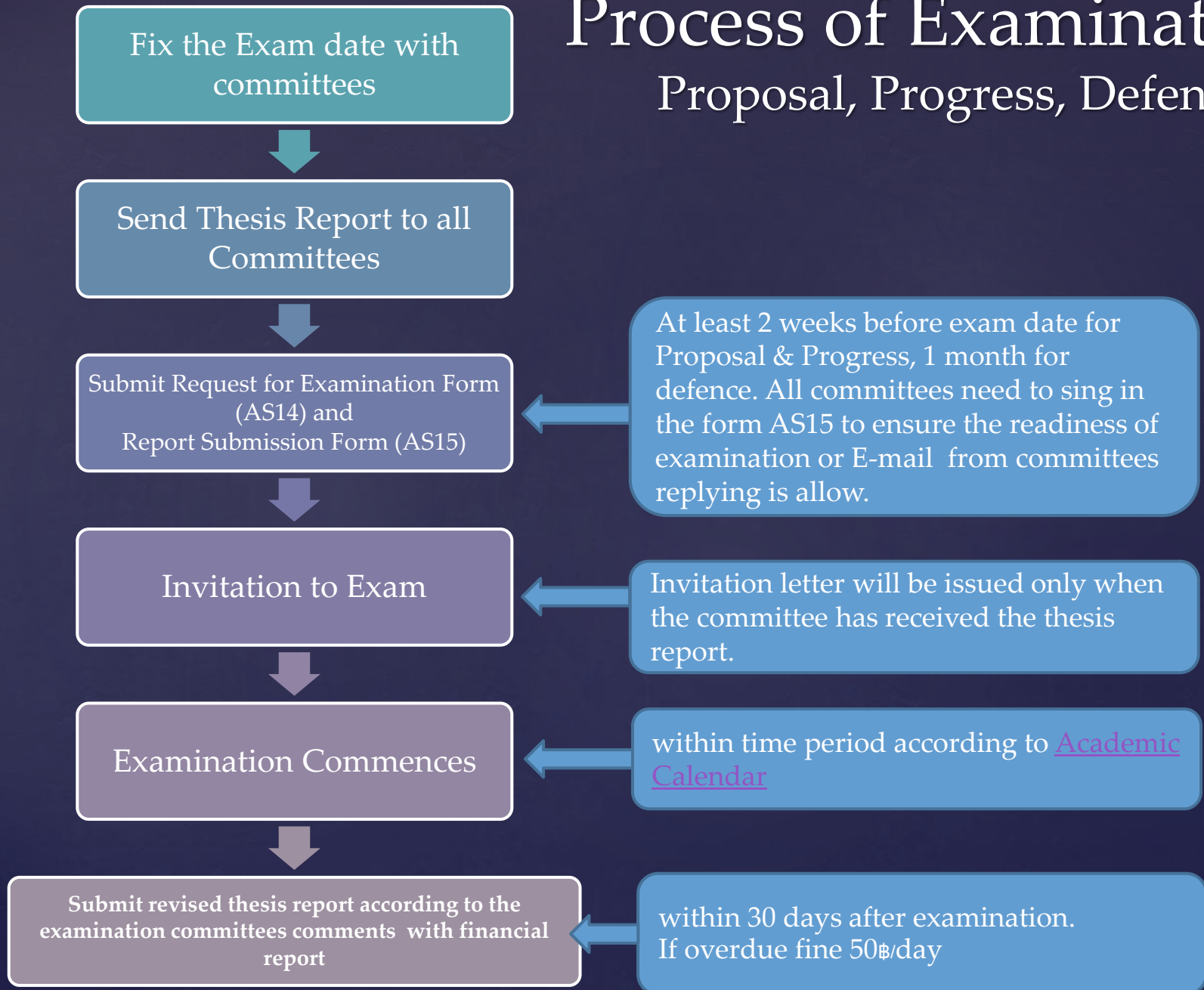


Process of Examination



Process of Examinations

Proposal, Progress, Defence



Request for Examination

Submit a request via online system:

AS14 Request for Examination Form (Online system)

Attachment

1. AS15 Report Submission Form
2. Research Integrity Certificate

Last day of submission AS14

Special Study 24 May 2024

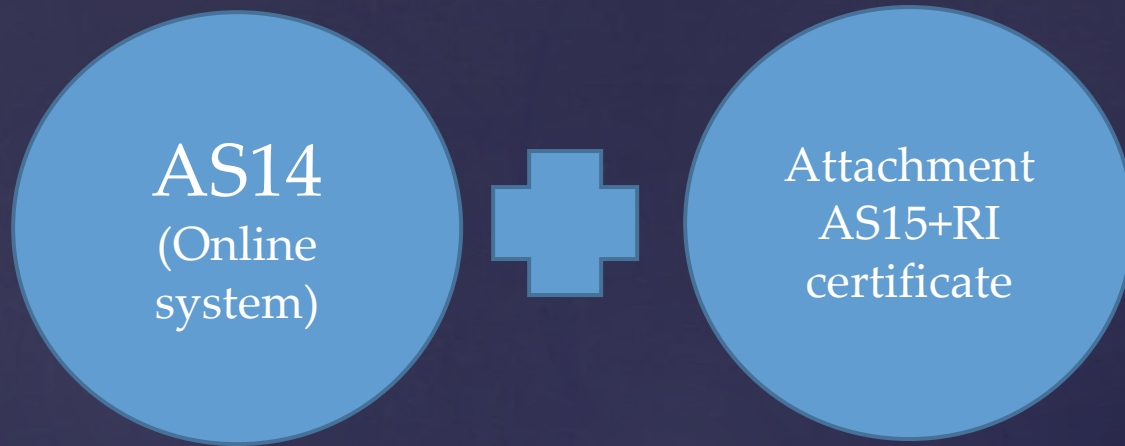
Proposal (CE/QE), Progress

24 May 2024

Defence

7 May 2024

Request for Thesis Examination



Submit before Exam date

At least 2 weeks > Proposal, Progress and defence for Master student only

At least 1 Month > Defence for PhD student only

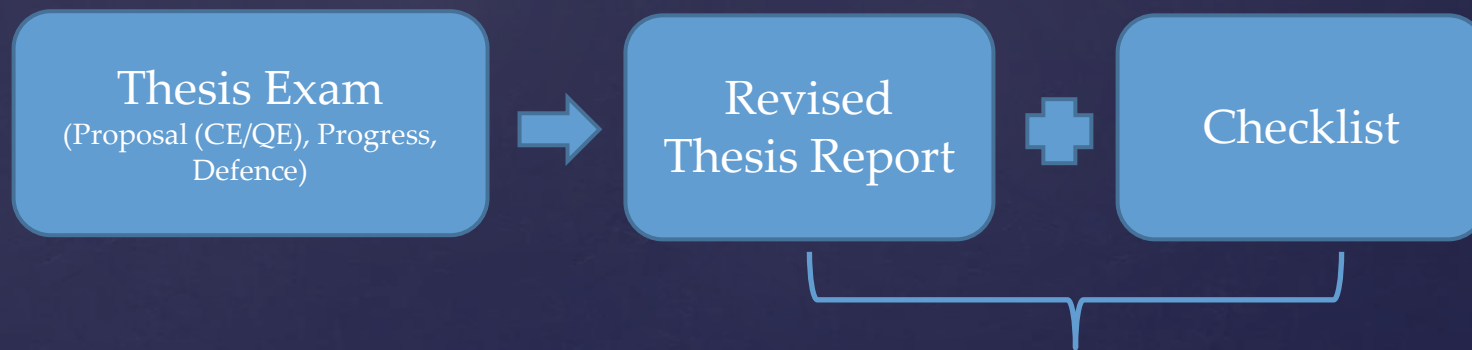
Otherwise not allow to exam and grade will be "U"

External Examiner

- Nominated 2 names by Advisor
- Nominate in the semester student ready to take defence examination
- Ph.D. degree require a Professor doctor to be an external examiner
- Master degree, the external examiner will be approved by Executive Board
- Ph.D. degree, the external examiner will be approved by Professorial Board

After thesis Exam

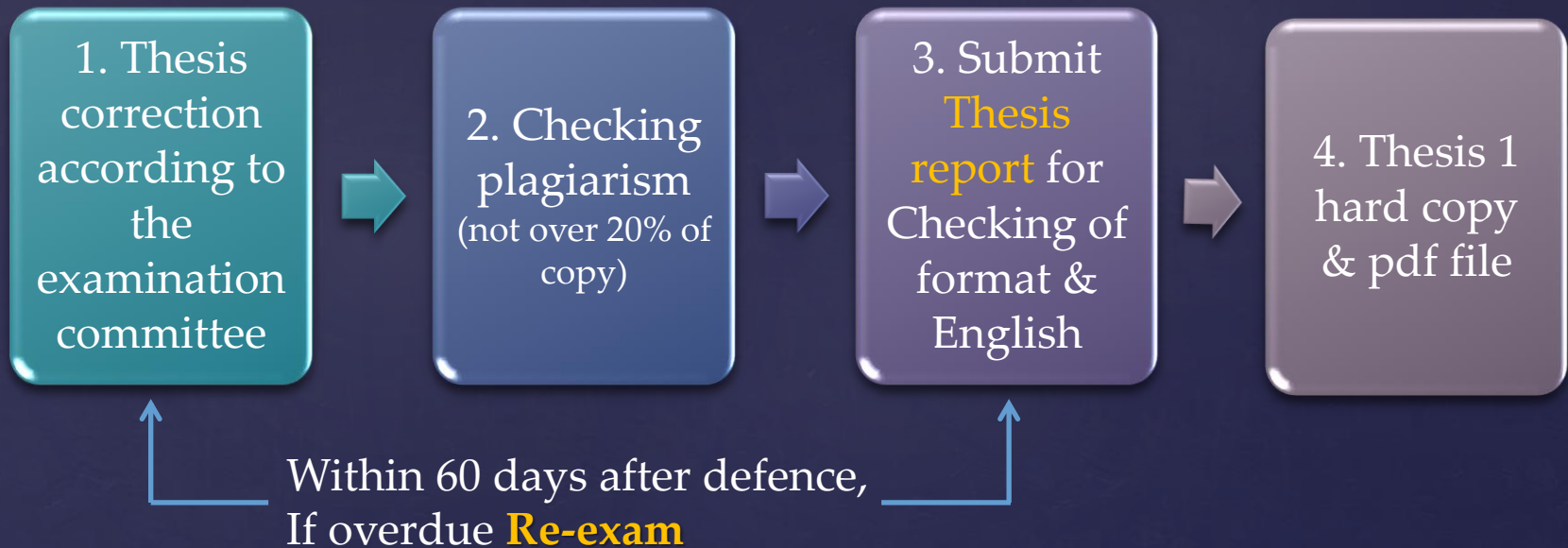
- It is the student's responsibility to submit the revised thesis report in order to claim the next installment of research funds each semester. The subsequent installments will be disbursed after the submission of the revised thesis report.
- Submit revised thesis report & checklist within 30 days after examination, if overdue fine 50฿/day.



Using AS17 form online system
Submit to Academic within 30 days after
examination, if overdue fine 50฿/day.

Thesis correction after defence

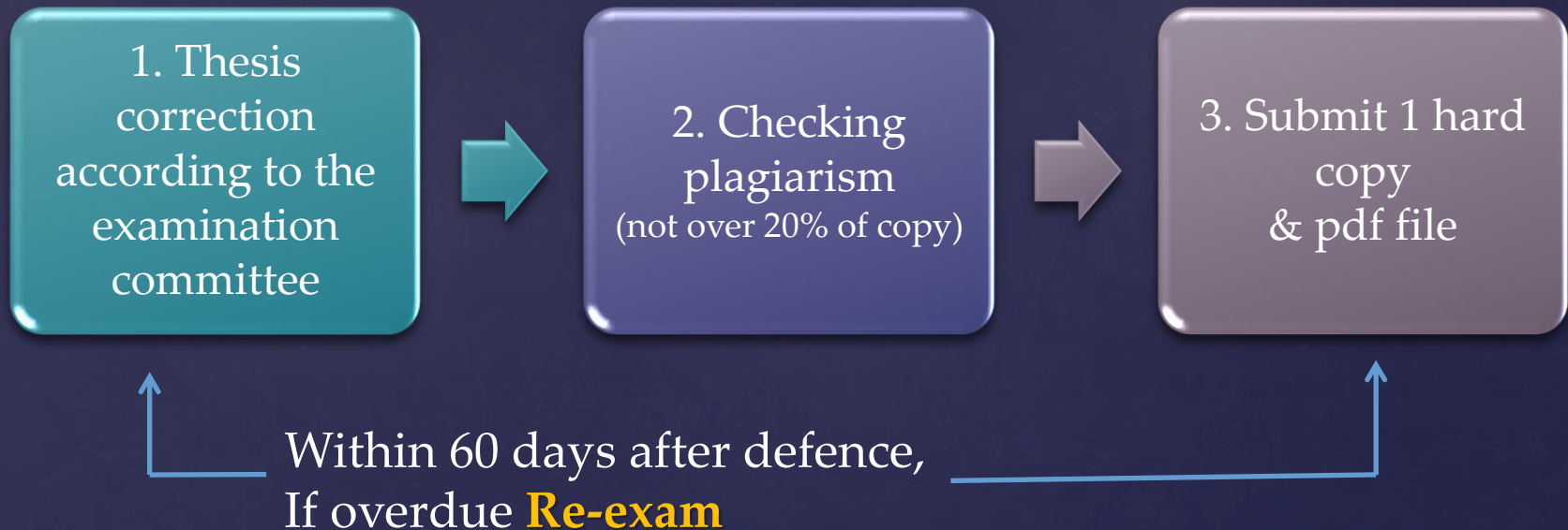
Master student



[Link to procedure](#)

Thesis correction after defence

PhD student



[Link to procedure](#)

Thesis Template / Format Report

gsee.kmutt.ac.th/v3/information-for-current-student/

JGSEE **CEE PERDO**

Home About Us Staff Admissions Research Industrial Outreach School Facilities

Examination

- Special study
- CE/QE
- Progress
- Defence
- AS 09 Application for Modify / Changing Dissertation Proposal Form
- AS 10 Dissertation Proposal Form
- AS 11 Special Study Proposal Form
- AS 12 Internship Activity Form
- AS 14 Request for Examinations Form
- AS 15 Report Submission Form
- AS 20 Research Study Proposal Form
- Protocol for Dissertation Proposal Submission
- Process of thesis defence Examination (Master)
- Process of thesis defence Examination (PhD)
- Process of Special Study, Thesis Proposal (CE/QE), Thesis Progress and Internship Exam
- Process of submission report after examination

Graduation Requirement

- English language
- Procedure of Turnitin
- Publication

- AS 18 Application for Graduation Form
- AS 20 Research Study Proposal Form
- AS 22 Request for waiving the school fee
- AS 23 Request of Publication Form

Thesis Template / Format Report

- Seminar Paper Format
- Thesis Template/Format Report
- Checklist
- Notes for Students on the JGSEE Thesis Template
- Thesis CD Cover format

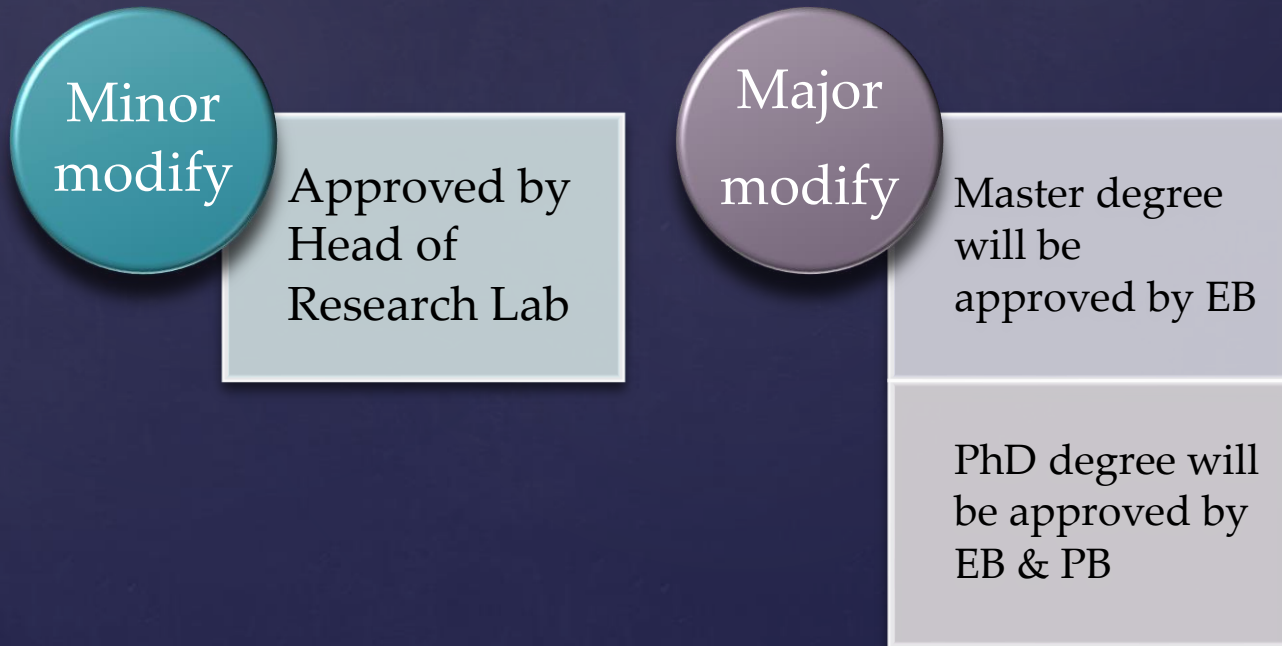
JGSEESA

- International student information

Modification Thesis Entitled

Thesis entitle modification can be made by the recommendation of the thesis committee.

Student must submit the AS09 form to academic section



Before exam

- Check academic calendar
- Consult adviser
- Thesis report
- Fix the examination date
- Submit thesis report to all committees
- Submit Request for exam (AS14+AS15)

Examination

- Examination Commences
- Food & Drink and Car parking for Onsite exam

After exam

- Submit revise thesis report & Financial report within 30 days after examination, if overdue fine 50\$/day.

After defence

- Make thesis correction & checking plagiarism, within 60 days after defence, If overdue student must re-take oral examination and register for the next semester.
- Checking format.

Period of study

	Master	PhD
Normal Scholarship covered	2 years	3 years from M level 3.5 years from B level
Maximum Scholarship not covered	5 years	6 years
Extension (In the conditions of PhD student must passed Defence examination and waiting for the last IJ paper)		1 year

Scholarship covered only the courses in the program.
If you fail in any courses, you must pay by your own cost.

Withdrawal & Retention

Semester withdrawal

- One semester leave at a time
- No more than two semesters in entire program
- Be counted as the study period

Student status retention

- Semester withdrawal
- No credit to earn
- Pass defence exam
- Waiting for publication result and / or English
- Not submit a request for graduation
- Pay retention fee 4,000 ₪/semester

Research fund

Available for all students

A teal-colored circle with a slight gradient and a shadow, positioned to the left of the PhD funding amount.

PhD

A light blue rectangular box with a thin white border and a slight shadow, positioned to the right of the PhD circle.

290,000฿

A purple-colored circle with a slight gradient and a shadow, positioned to the left of the Master funding amount.

Master

A light purple rectangular box with a thin white border and a slight shadow, positioned to the right of the Master circle.

135,000฿

Research fund



PhD

6 Installments

1. Appointment Topic & Committees
2. Proposal
3. 1st Progress
4. 2nd Progress
5. 3rd Progress
6. Defence

Research fund



Master

4 Installments

1. Appointment Topic & Committees
2. Proposal
3. Progress
4. Defence

Graduation Requirements

1. Credits Earned

Master (T&M)	40	credits
Ph.D. (form Master)	55	credits
Ph.D. (from Bachelor)	75	credits

Grade; Master: Compulsory Course \geq B, GPA \geq 3.00

PhD: pass all courses with "S"

2. Publications

3. English Requirements



Publications

Student need to have their research work publish in journal, or their equivalent

MEng/MSc T&M

- Plan A-1: 1NJ
- PlanA-2: 1NJ or 1IC

PhD

- 2 IJ + 1 IC
- ISI & Scopus
- At least 1 IJ must be in ISI

Equivalence

$$1 \text{ IJ} = 1 \text{ NJ} + 1 \text{ IC} = 2 \text{ IC}$$



Writing author affiliation

- Student is a 1st name
- Corresponding author is adviser or the senior author/project
- 1st affiliation “The Joint Graduate School of Energy and Environment, King Mongkut’s University of Technology Thonburi, Bangkok, Thailand.”
- 2nd affiliation “Center of Excellence on Energy Technology and Environment (CEE) Ministry of Higher Education, Science, Research and Innovation (MHESI), Bangkok, Thailand.”

Writing author affiliation



Article

A Modified Bare Soil Index to Identify Bare Land Features during Agricultural Fallow-Period in Southeast Asia Using Landsat 8

Can Trong Nguyen ^{1,2}, Amnat Chidthaisong ^{1,2,*}, Phan Kieu Diem ³ and Lian-Zhi Huo ⁴

¹ The Joint Graduate School of Energy and Environment, King Mongkut's University of Technology Thonburi, Bangkok 10140, Thailand; can.62300800201@mail.kmutt.ac.th

² Center of Excellence on Energy Technology and Environment (CEE), PERDO, Ministry of Higher Education, Science, Research and Innovation, Bangkok 10140, Thailand

³ College of Environment and Natural Resources, Can Tho University, Can Tho 94115, Vietnam; pkdiem@ctu.edu.vn

⁴ Aerospace Information Research Institute, Chinese Academy of Sciences, Beijing 100101, China; huolz@radi.ac.cn

* Correspondence: amnat_c@jgsee.kmutt.ac.th



Citation: Nguyen, C.T.; Chidthaisong, A.; Kieu Diem, P.; Huo, L.-Z. A Modified Bare Soil Index to Identify Bare Land Features during Agricultural Fallow-Period in Southeast Asia Using Landsat 8. *Land* **2021**, *10*, 231. <https://doi.org/10.3390/land10030231>

Academic Editor: Marina Cabral Pinto

Abstract: Bare soil is a critical element in the urban landscape and plays an essential role in urban environments. Yet, the separation of bare soil and other land cover types using remote sensing techniques remains a significant challenge. There are several remote sensing-based spectral indices for barren detection, but their effectiveness varies depending on land cover patterns and climate conditions. Within this research, we introduced a modified bare soil index (MBI) using shortwave infrared (SWIR) and near-infrared (NIR) wavelengths derived from Landsat 8 (OLI—Operational Land Imager). The proposed bare soil index was tested in two different bare soil patterns in Thailand and Vietnam, where there are large areas of bare soil during the agricultural fallow period, obstructing the separation between bare soil and urban areas. Bare soil extracted from the MBI achieved higher overall accuracy of about 98% and a kappa coefficient over 0.96, compared to bare soil index (BSI), normalized different bare soil index (NDBaI), and dry bare soil index (DBSI). The results also revealed that MBI considerably contributes to the accuracy of land cover classification. We suggest using the MBI for bare soil detection in tropical climatic regions.

Keywords: agricultural fallow period; bare soil index; bare soil detection; Landsat 8; modified bare soil index (MBI); remote sensing; spectral indices

English requirement

LNG 601 for Student who admitted with English condition

LNG 602 for all students

Plagiarism (not over 20% of copy)

Technical
result
must be
original

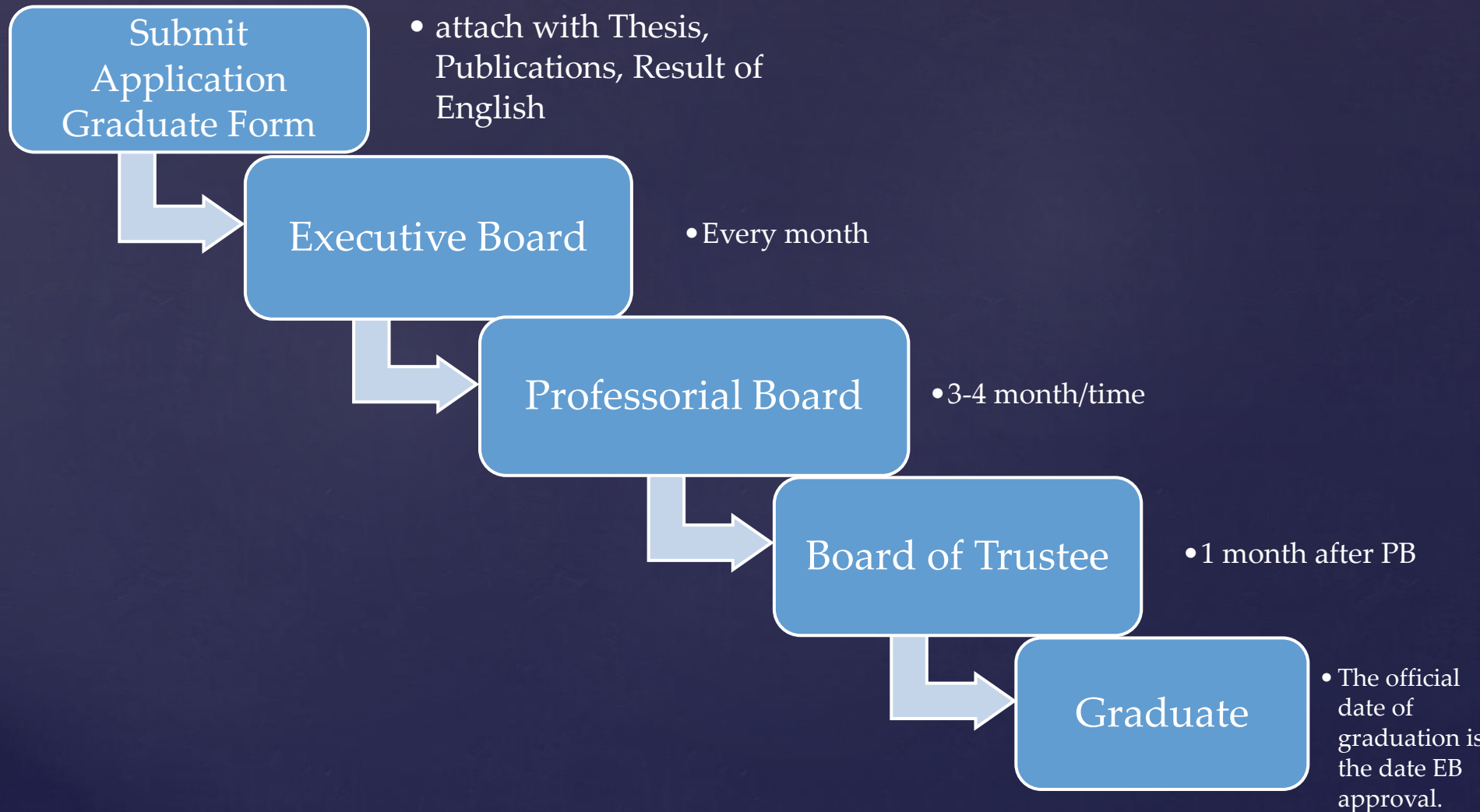
Submit
paper
only one
journal at
a time

No copy
and Paste

Turn it in
Program



Process of graduate approval



Thank You



Post test

