

## Application for Graduation

### Note

1. Credits will be earned only if the grade is "S" or not lower than grade "C" with a minimum cumulative GPA of 3.00. Grades earned in each semester will appear on the student's transcripts. Students receiving a grade below 'C' grade must repeat the course. However, the old grades will also be included in the calculation of GPA and GPAX. The original as well as revised grades of all repeated courses will be shown on the transcript.
2. Only complete original documents submitted to the academic services section at the above address no later than the academic calendar of the semester can be accepted.
3. **Please write only** in this form and send it together with all necessary supporting documents.

### Supporting documents attached

- ☐ Thesis abstract and the cover page (with committee members' signatures) of your thesis report/internship report/research study
- ☐ Result of English performance test..... Score..... Date.....
- ☐ 1.5 inches photo color on academic gown ☐ Other.....
- ☐ Publication (**On a separate sheet, please provide the full list of your publications following the format shown in the publication page. For any paper already accepted but not yet published, please attach corresponding letter of acceptance**)
- ☐ International Journal ..... Paper (s) IF = ..... with acceptance letter and Full paper.
- ☐ International Conference Proceeding ..... Paper (s) with certificate of participation, schedule, editorial committee list, cover of proceedings and full paper.
- ☐ National Journal ..... Paper (s) with acceptance letter and full paper.

Semester ..... Academic year .....

Name.....Middle name.....Last name.....Student ID.....

Degree: ☐ M.Sc ☐ M.Eng ☐ M.Phil ☐ Ph.D. Program .....

E-mail..... Tel.....

Advisor.....

**Thesis Topic**.....

Date of defense examination..... Result of examination.....Semester.....

Status: ☐ Looking for a job ☐ Current job position.....

Workplace/Company..... Address.....

| Names of Thesis Committee | Position            | University/Institution |
|---------------------------|---------------------|------------------------|
| (.....)                   | Advisor             | .....                  |
| (.....)                   | Co-advisor (if any) | .....                  |
| (.....)                   | Committee member    | .....                  |
| (.....)                   | Committee member    | .....                  |
| (.....)                   | Committee member    | .....                  |
| (.....)                   | Committee member    | .....                  |
| (.....)                   | Committee member    | .....                  |
| (.....)                   | External examiner   | .....                  |

Student's signature .....

Date.....

Advisor's signature .....

Date.....

**CHECKING (For official use only)****Graduation requirements**

1. Credit Earned    ☐ Ph.D. 55/75 Credits    ☐ M.Phil 40 Credits    ☐ M.Sc 40/42 Credits    ☐ M.Eng 40/42 Credits
2. Publications:    ☐ Completed    ☐ Incomplete

.....  
**Exe. Board Date**

.....  
**Professorial Board Date**

.....  
**Board of Trustees Date**

**The student will be graduated in,**

- ☐ JGSEE program (Get degree from KMUTT)
- ☐ Consortium program (Get degree from consortium university)

Comment: .....

**Receiver/Checked By**.....

**Date**.....

**Academic Services Section**

- |                      |                                    |  |                 |
|----------------------|------------------------------------|--|-----------------|
| 1. Final thesis      | <input type="checkbox"/> Collected | <input type="checkbox"/> Not collected   |                 |
| Thesis in CD         | <input type="checkbox"/> Collected | <input type="checkbox"/> Not collected   | Checked by..... |
| 2. All grades        | <input type="checkbox"/> Passed    | <input type="checkbox"/> To be re-graded | Checked by..... |
| 3. Program structure | <input type="checkbox"/> Completed | <input type="checkbox"/> Incomplete      | Checked by..... |

**For student use only****Central Analytical Laboratory**

- ☐ No
- ☐ Yes, as follows.....

Officer's signature.....Date.....

**Division**

- ☐ No
- ☐ Yes, as follows.....

Officer's signature.....Date.....

**IT**

- ☐ No
- ☐ Yes, as follows.....

Officer's signature.....Date.....

**General Administration**

- ☐ No
- ☐ Yes, as follows.....

Officer's signature.....Date.....

**Library (include KMUTT library)**

- ☐ No
- ☐ Yes, as follows.....

Officer's signature.....Date.....

**Finance**

- ☐ No
- ☐ Yes, as follows.....

Officer's signature.....Date.....

# PUBLICATIONS

## International Journal

|                 | Authors. (Year) <b>Title</b> . Journal name. Vol.(No.): p.  | IF   | Status    |
|-----------------|---|------|-----------|
| <u>Example:</u> |   |      |           |
| No.             | Abeyesundara, U.G.Y.; Babel, S. and Gheewala, S. (2009) <b>A matrix in life cycle perspective for selecting sustainable materials for buildings in Sri Lanka</b> . Building and Environment. 44(5): p. 997-1004 | 0.12 | Published |

## International Conference

|                 | Authors. <b>Title</b> . In Conference name. Date. Place.  | Status                             |
|-----------------|---|------------------------------------|
| <u>Example:</u> |   |                                    |
| No.             | Fusuwankaya, K.; Jiaphasuanan, T. and Towprayoon, S. <b>Estimation of Carbon Footprint of Rice Cultivation with Different Field Management</b> . In World Renewable Energy Congress 2009-Asia (WREC 2009-Asia) 19-22 May 2009 | Presented (already in proceedings) |

## National Journal

|                 | Authors. (Year) <b>Title</b> . Journal name. Vol.(No.): p.   | Status    |
|-----------------|--|-----------|
| <u>Example:</u> |  |           |
| No.             | Jeong, G.T.; Yang, H.S. and Park, D.H. (2009) <b>Optimization of Transesterification of animal fat ester using Response surface methodology</b> . Bioresource Technology. 100(1): pp.25-30 | Published |

## Graphical Abstract

**Miss Rungnapa Kaewmeesri, Doctor of Philosophy in Energy Technology**

Monometallic Ni, Co, and bimetallic NiCo catalysts supported on SAPO-11 were synthesized via co- and sequential-impregnation. The physicochemical properties of both the bimetallic structures and their monometallic counterparts were determined via TEM-EDS, XPS, XRD, and BET. The catalytic characterizations revealed that Co species could improve the reducibility and form of Ni-Co alloy in bimetallic catalysts. With the different metal loading steps, the atomic concentrations of Ni:Co on catalyst surfaces for the sequence of metal loading exhibited higher concentration, whereas the co-impregnated catalyst possessed comparable. The performance of the different structures as catalysts for the hydrodeoxygenation of coconut oil, palm oil, and palm oil-derived fatty acid methyl esters (FAMES) for jet fuel-like hydrocarbons production was evaluated using glycerol solution and methanol as a hydrogen donor via glycerol reforming and methanol decomposition, respectively. The results showed that the feed conversion increased when using co-reactant as following:  $N_2 < H_2O < \text{glycerol} < H_2$ , to the reaction. The main products were free fatty acids (FFAs) and their corresponding  $C_{n-1}$  alkanes. This result can be informed that the addition of  $H_2O$  aids the triglyceride breakdown into FFAs. In contrast, glycerol acts as a hydrogen donor that favors initiating hydrogenolysis of triglycerides, causing a higher amount of FFAs. Consequently, those FFAs can be either decarbonylated/decarboxylated to their corresponding  $C_{n-1}$  alkanes, showing the promising capability of the catalysts to produce hydrocarbon fuel even in the absence of an external  $H_2$  source.

