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Doctor of Philosophy Program in Polymer Science and Technology (International Program)

หลักสูตร ปรัชญาดุษฎีบัณฑิต สาขาวิชา วิทยาศาสตร์และเทคโนโลยีพอลิเมอร์(หลักสูตรนานาชาติ)(ภาคปกติ)

Faculty of Science Department of Chemistry

คณะวิทยาศาสตร์ ภาควิชา เคมี

Expected number of students to be accepted all year round : 5 Students

Admission Requirements

A candidate must:

1. Hold a Bachelor's degree in Polymer Science and Technology, Polymer Science, Chemistry, Industrial Chemistry, Physics, Materials Science, or other degrees with an honor grade point average or
2. Hold a Master's degree in Polymer Science and Technology, Polymer Science, or other related fields (e.g. Chemistry, Industrial Chemistry, Physics, Materials Science) with a minimum grade point average of 3.50 and
3. Submit a certificate of English proficiency with minimum admission score:
 - IELTS - at least 3 or
 - TOEFL INTERNET BASED - at least 32 or
 - TOEFL ITP (test arranged by Faculty of Graduate Study, Mahidol University) - at least 400

Important Notes:

- English proficiency score must be taken within 2 years up to the admission date.
 - Application without submitting a valid English certificate will NOT be considered.
 - MU English Competence Standards: www.grad.mahidol.ac.th
 - MU English proficiency tests, please contact the Language Center, Faculty of Graduate Studies. Tel. 0-2441-4125 ext. 221-222
4. Exemption from the above conditions may be granted by the Programme Committee under exceptional circumstances.

Written Examination

There is NO written examination for this program. Applicants must check their eligibility for interview upon the announcing date of the interview list which is scheduled for each admission round.

Curriculum Structure

	Credit
Plan 2	
For students with Bachelor's degree	
Required Courses	19
Elective Courses no less than	5
Thesis	48

For students with Master's degree

Required Courses	6
Elective Courses no less than	6
Thesis	36

Credit**Required Courses****For students with Bachelor's degree**

SCCH 523 Polymer Chemistry	3(3-0-6)
SCCH 524 Polymer Characterisation	1(1-0-2)
SCCH 596 Polymer Rheology and Processing	2(2-0-4)
SCCH 543 Polymer Physics	3(3-0-6)
SCCH 565 Techniques in Polymer Science	2(0-6-2)
SCCH 588 Polymer Seminar I	2(2-0-4)
SCCH 632 Advanced Polymer Chemistry	3(3-0-6)
SCCH 680 Polymer Seminar II	2(2-0-4)
SCID 518 Generic Skills in Science Research	1(1-0-2)

For students with Master's degree

SCCH 632 Advanced Polymer Chemistry	3(3-0-6)
SCID 518 Generic Skills in Science Research	1(1-0-2)
SCCH 680 Polymer Seminar II	2(2-0-4)

Elective Courses

1. For students with Bachelor's degree no less than 5 Credit

2. For students with Master's degree no less than 6 Credit

SCID 516 Biostatistics	3(3-0-6)
SCCH 526 Polymer Modification	3(3-0-6)
SCCH 527 Polymer Colloids	3(3-0-6)
SCCH 597 Advanced Polymer Processing	3(3-0-6)
SCCH 598 Nanomaterials	3(3-0-6)
SCCH 550 Rubber Science and Technology	3(3-0-6)
SCCH 633 Advanced Polymer Physics	3(3-0-6)
SCCH 634 Polymer Surfaces	3(3-0-6)
SCCH 635 Polymer Blends and Composites	3(3-0-6)
SCCH 668 Selected Topics in Polymer Science and Technology	3(3-0-6)
SCCH 600 Current Topics in Polymer Sciences	3(3-0-6)

Thesis

* These may change in cases where there are suggestions for the improvement of the curriculum

Additional advantages of the programme

This program is designed to produce high quality graduates of international stature dedicated to research and to train personnel who will support the growth and needs of polymer industries in Thailand.

Details of Scholarships

1. Teaching Assistantships.
2. TGIST Grants.
3. Grants from the Royal Golden Jubilee Ph.D. Program.
4. Scholarship of the 60th Year Supreme Reign of His Majesty King Bhumibol Adulyadej.

Application Process

Application is only available *via* online application at www.grad.mahidol.ac.th

Required Documents

Applicants must upload all documents via online admission system. All documents must be in PDF format (maximum size 2 MB). Photograph must be in JPEG format.

- Academic records
- Statement of Purpose (in Thai or English) describing academic background, honors or awards received, research background and research interests.
- Letters of recommendation (2-3).
- Recent photographs (1x1 inch in size)
- A copy of an applicant's degree certificate or a letter of graduation certification (for an applicant with a degree completion)
- A letter certifying that an applicant is currently in the final year prior to graduation (for an applicant seeking for a degree)
- A detailed transcript of a degree (for an applicant with a degree completion)
- A grade report with course names and grades received from the first to the current semester prior to graduation
- A copy of identification card
- A copy of house registration certification
- A copy of Certificate of English proficiency : IELTS / TOEFL INTERNET BASED / TOEFL ITP
- A copy of proof of payment.

Job option after graduation

- Scientists and experts
 - Research and development personnel
 - Analysts
 - Quality control or processing specialists
 - Entrepreneurs in polymer science and technology and related fields
- In the field of polymer science and technology
For government or private sectors.

Further information may be obtained from the Director of Graduate Studies,

Polymer Science and Technology :

1. Prof.Dr. Sombat Thanawan (E-mail : sombat.tha@mahidol.ac.th)

Room SC 4-413, SC-4 Building, Floor 4,
Department of Chemistry, Faculty of Science (Salaya).
Tel. : 0 2441 9816-20 Ext. 1138 Fax. : 0 2441 0511

Program Coordinator

Mrs. Pimnicha Keawprapan (E-mail : pim_numbuay@hotmail.com)

Room R2/2, SC-3 Building, Floor 2,
Department of Chemistry, Faculty of Science (Salaya).
Tel. : 0 2441 9816-20 Ext. 1115 Fax. : 0 2441 0511

Note 1. For more education information : www.grad.mahidol.ac.th

For more information please contact The Student Admission Section.
Tel . 0 2441 4125 ext. 208-210 , 0 2441 9129, E-mail : gradthai@mahidol.ac.th



Department of Chemistry
MAHIDOL UNIVERSITY

Statement of Purpose (send by post only)

APPLICANT: Please provide name

(First)

(Last)

Please post to: Director of Graduate Program in Polymer Science and Technology
Department of Chemistry, Faculty of Science, Mahidol University
Rama 6 Road, Bangkok 10400

(Applicant must send documents to the Department of Chemistry)

*This Statement of Purpose **must be posted to** the Director of Graduate Program in Polymer Science and Technology, Department of Chemistry at the above address with postal stamp by **February 15th, 2017** (For the First - round Examination) or **by May 3rd, 2017** (For the Second - round Examination)*

Applicant: Please type or print.

Name of applicant: _____
(first name) (family name)

Current E-mail address: _____

Degree applied: ☐ M.Sc. ☐ Ph.D.

Signature of applicant: _____ Date: _____

Awards/Distinctions: List academic awards, prizes, honors, fellowships or other distinctions you have received.

Work/Research Experience: List research activities or employment occupation relevant to your graduate goals.

Publications: If relevant to your proposed field of study, please list your publications and any scholarly activities.

Statement of Purpose: On the back of this form or in an additional sheet, please state your purpose in applying for graduate study, your particular area of specialization within Polymer Science and Technology, your plans for future occupation or profession, and any additional information that may aid the selection committee in evaluating your preparation and your ability for graduate study.

If you have discussed your plans for graduate study with a faculty member in the Department, please list that person's name: _____

Signature: _____ Date: _____



Department of Chemistry MAHIDOL UNIVERSITY

RECOMMENDATION FORM

Recommender: See below for instructions.
Staple this form to the top of your letter.

This recommendation **must be posted** to the Director of Graduate Program in Polymer Science and Technology, Department of Chemistry, Faculty of Science, Mahidol University, Rama 6 Road., Bangkok 10400 with postal stamp

by **February 15th, 2017** (For the First - round Examination) or

by **May 3rd, 2017** (For the Second - round Examination).

Application for academic year 2015
TO BE COMPLETED BY THE APPLICANT:

Applicant: Please type or print. Give this form and an envelope to the person whom you have asked to recommend you. When that person returns the sealed envelope to you, include it with your other application materials.

Name of applicant: _____
(first name) (family name)

Current mailing address: _____

Degree applied: ☐ M.Sc. ☐ Ph.D.

Recommender's name: _____ Title: _____

Institution/Company: _____ Department: _____

Recommender's E-mail: _____

Signature of applicant: _____ Date: _____

TO BE COMPLETED BY THE RECOMMENDER:

The person named above is applying for admission to the Graduate Program in Polymer Science and Technology at Mahidol University. We would appreciate your personal impressions of the applicant's capacity for success as a graduate student. If possible, compare the applicant to other students known to you who have attended or who are now applying for admission to the program.

1. How long have you known the applicant? _____ years

How well do you know the applicant? ☐ Casually ☐ Well ☐ Very well

In what capacity have you known the applicant?

- ☐ Lecturer in one class ☐ Lecturer in more than one class
☐ Undergraduate research advisor ☐ Graduate research advisor
☐ Employer ☐ Other (specify) _____

2. Please compare the applicant with one of the following (check one):

- ☐ Undergraduates from your institution who have gone on to graduate study
☐ Current senior undergraduates at your institution ☐ Other: _____

	Top 2 %	Top 5%	Top 10%	Top 20%	Top 50%	Bottom 50%
Intellectual potential	_____	_____	_____	_____	_____	_____
Analytical ability	_____	_____	_____	_____	_____	_____
Creativity and originality	_____	_____	_____	_____	_____	_____
Laboratory skill (if applicable)	_____	_____	_____	_____	_____	_____
Perseverance towards goals	_____	_____	_____	_____	_____	_____
Emotional maturity	_____	_____	_____	_____	_____	_____
Motivation for graduate study	_____	_____	_____	_____	_____	_____
Background for proposed study	_____	_____	_____	_____	_____	_____

3. Additional information about the applicant

Please type or print your letter. Write candidly about the applicant to provide additional information, which will serve as additional credentials for the applicant's admission to the Graduate Program. Indicate how long and in what capacity you have known the applicant. Discuss the applicant's qualification and potential to carry on advanced study in the specified field, as well as his or her promise of professional success. In describing such attributes as motivation, intellects, and maturity, discuss both strong and weak points. Indicate rank in class, if possible. *The letter can be written in Thai or in English.*

4. Summary

☐ Strongly recommend

☐ Recommend with confidence

☐ Recommend

☐ Recommend with reservation

☐ Not recommended

Signature: _____ Date: _____

Name: _____ Title: _____

E-mail address: _____ Telephone: _____

Institution: _____ Address: _____

Mailing the completed recommendation letter: Seal the recommendation letter and this completed form in an envelope and sign your name across the seal. Return the signed, sealed envelope to the applicant well before the deadline indicated. Alternatively, you may send it directly to the Director of Graduate Program in Polymer Science and Technology Department of Chemistry, Faculty of Science, Mahidol University, Rama 6 Road, Rajdhevee, Bangkok 10400. Tel: (02)-201-5110-2 or Fax: (02)-354-7151.

(Please sent documents to the Department of Chemistry).

This recommendation letter will remain confidential during the admission process and will only be used in its procedures in admission and fellowships.