

# Bachelor of Science Program in Ceramic Technology

## B.Sc. (Ceramic Technology)

### OVERVIEW AND PHILOSOPHY

Ceramics Technology is one of the earliest academic programs at Faculty of Industrial Technology, Phranakhon Rajabhat University. The program was established under the importance of ceramic industry for Thailand's industrial sectors, which can be seen as one of the major linkage to other industries such as construction, electrical and electronics, computer and information technology, medical and automotive industries.

Throughout history, ceramics have played an important role in people's daily life. With the commendable growth of ceramic industry in Thailand, there is an urgent need and demand for ceramic professionals. Therefore, the Bachelor of Science (B.Sc.) in Ceramics Technology is a four-year full time course that provides students an intensive and hands-on experience in the production of ceramic products. The course structure offers equal opportunities to both traditional and modern ceramics so that students will recognize the meaning of intellectual, visual, and ethical excellence. Introductory courses allow students to sharpen their basic skills, while advanced courses provide the opportunity for more rigorous examinations of ceramics.

### PROGRAM STRUCTURE

The program of study covers 4 academic years (8 semesters in total) and consists of 130 credits including:

1. General Education	30	credits
2. Professional Courses	94	credits
a. Professional Foundation Course	30	credits
4011301 General Physics 1		3 (2-2)
4021101 General Chemistry 1		3 (2-2)
4111101 Principle of Statistics		3 (3-0)
5503103 English for Industrial Business		3 (3-0)
5501102 Applied Mathematics for Industrial Works		3 (3-0)

5504204	Leadership and Team Development	3 (3-0)
5514310	Ceramic Industrial Entrepreneurship	3 (3-0)
5524905	Scientific Research Methodology	3 (2-2)
5524908	Environmental Management of Factory	3 (3-0)
5542106	English for Ceramics	3 (3-0)

### Specific Requirements

5511201	Technical Drawing	3(2-2)
5541103	Drawing	3(2-2)

Foundation Courses, the students have to study and examine the level of the points (P : Pass) whose credit is not included in this course completion criteria if a student passes the criteria defined Program Committee. Courses can be excluded.

b. Major Courses	57	credits
- Required Courses	36	credits
5521101	Introduction to Ceramics	3(2-2)
5521203	Ceramic Product Designs	3(2-2)
5521402	Ceramic Kilns and Firing 1	3(2-2)
5521403	Ceramic Tools and Equipment	3(2-2)
5521501	Ceramic Raw Materials	3(2-2)
5521503	Testing and Analysis for Ceramics	3(2-2)
5522302	Mold Making and Casting 1	3(2-2)
5522306	Jigger Methods	3(2-2)
5522501	Glazes 1	3(2-2)
5522604	Plastic Forming	3(2-2)
5524505	Ceramic Bodies 1	3(2-2)
5524902	Individual Study	3(2-2)
- Elective Courses	21	credits
3541101	Principle of Marketing	3(3-0)
5511202	Basic Electricity	3(2-2)
5511213	Theory of Design	3(2-2)



## PROSPECTIVE CAREERS

Graduates in B.Sc. (Ceramic Technology) can expect to find employment in:

1. Laboratory technician in Industrial Ceramic Technology
2. Laboratory technician in Government sectors
3. Preparation Staffs in raw materials, productions, control burns, product quality control for Industrial Ceramic Factories
4. Independence occupations in ceramics fields, earthenware and product design

## PROGRAM OF STUDY COMMITTEE

1. Mr.Warawoot Yodchan Chairman
2. Assistant Professor Sathorn Cholchatpinyo
3. Assistant Professor Dr.Somboon Sarasit
4. Mr.Pimon Juntarakhum
5. Dr.Sasithorn Khonthon Committee Secretary

## ACADEMIC SCHEDULE

- 1<sup>st</sup> Semester June - September  
2<sup>nd</sup> Semester November - February  
3<sup>rd</sup> Semester March - May

## ACADEMIC FEES

Academic Fees per semester of 12,000 Baht

## CONTACT

Interested persons are welcome to contact the Chairman of the study program or directly contact Secretary of the Dean office, Faculty of Industrial Technology (FIT), Phranakhon Rajabhat University, Bang Khen District, Bangkok Metropolis Thailand at the phone number: +662 5448243, +662 5448244 or email: techno\_fac@yahoo.com

For more information , please visit our web site : <http://tech.pnru.ac.th>