

Doctor of Philosophy Program in Biochemical Technology

Doctor of Philosophy Program in Biochemical Technology (International Program)

Ph.D. (Biochemical Technology)

Philosophy of the Program:

Doctor of Philosophy Program in Biochemical technology aims at producing international standard researchers and academics with in-depth knowledge in Biomolecule and technology to solve the problems, process development of cumulative research.

Applicant Qualifications

Plan 1.1

Applicants must complete Master's Degree in biochemical technology, chemistry, food science, food technology, biotechnology, or other equivalent programs with a cumulative grade point average not less than 3.50. For those with a grade lower than 3.50, this shall be at the discretion of the program committee in considering the applicants on Publication, Awards Other works, Registered subjects.

Plan 2.2

Applicants must complete Bachelor's Degree with First Class Honors or Second Class Honors and placed in top 25% of the class (Certificate issued from Registrar's Office) in biochemical technology, chemistry, food science, food technology, biotechnology, or other equivalent programs. For those who obtained Second Class Honors and are not placed in top 25%, this shall be at the discretion of the program committee in considering the applicants on Publication, Awards Other works, Registered subjects.

Applicants must submit the English Proficiency Test Score as part of their application according to the KMUTT announcement on the English Language Requirement for Doctoral Degree.

Professions after graduation

- Academics/Lecturers in Institutes focusing on Science, Technology, Power, Food, Agriculture of Engineering.
- 2. Researchers in Biotechnology in institutes, government and industrial sectors
- 3. Innovators, product analysts and designers, entrepreneurs



Doctor of Philosophy Program in Biochemical Technology

Curriculum

Plan 1.1 for student with Master degree 48 Credits
Plan 2.2 for student with Bachelor degree 74 Credits

Curriculum Components

Plan 1.1 for student with Master degree

Major Course 3 CreditsDissertation 48 Credits

Plan 2.2 for student with Bachelor degree

Major Course 10 CreditsElective Course 16 CreditsDissertation 48 Credits

COURSE STRUCTURE

Plan 1.1 for student with Master degree

First Year

First Semester	Credits
BCT 791 Seminar I: Mini-review	1 (0-2-2)
BCT 799 Dissertation	6 (0-12-12)
Total	6 (0-14-14)
Second Semester	Credits
BCT 792 Seminar II: Scientific Paper Analysis	1 (0-2-2)
BCT 799 Dissertation	6 (0-12-12)
Total	6 (0-14-14)

Second Year

First Semester	Credits
BCT 793 Patent Analysis for Innovation Development	1 (1-0-3)
BCT 799 Dissertation	9 (0-18-18)
Total	9 (1-18-21)
Second Semester	Credits
BCT 799 Dissertation	9 (0-18-18)
Total	9 (0-18-18)



Doctor of Philosophy Program in Biochemical Technology

6 (0-12-12)

Third Year

First Semester	Credits
BCT 799 Dissertation	9 (0-18-18)
Total	9 (0-18-18)
Casand Camastar	Credits
Second Semester	Credits
BCT 799 Dissertation	9 (0-18-18)

Plan 2.2 for student with Bachelor degree

First Year

First Se	emester	Credits
	BCT 661 Biochemical Techniques and Instrumentation	3 (3-0-9)
	BCT 641 Functional Properties of Biochemicals	4 (2-6-8)
	BCT xxx Elective Courses	3 (3-0-9)
	BCT xxx Elective Courses	1 (1-0-3)
	Total	11 (9–6–29)
Second	d Semester	Credits
	BCT 791 Seminar I:Mini-review	1 (0-2-2)
	BCT xxx Elective Courses	3 (3-0-9)
	BCT xxx Elective Courses	3 (3-0-9)
	BCT xxx Elective Courses	3 (3-0-9)
	Total	10 (9-2-29)
Second	d Year	
First Se	emester	Credits
	BCT 792 Seminar II : Scientific Paper Analysis	1 (0-2-2)
	BCT 793 Patent Analysis for Innovation Development	1 (1-0-3)
	BCT xxx Elective Courses	3 (3-0-9)
	BCT 799 Dissertation	3 (0-6-6)
	Total	8 (4-8-20)
Second	d Semester	Credits
	BCT 799 Dissertation	6 (0-12-12)

Total



Doctor of Philosophy Program in Biochemical Technology

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First Semester	Credits
BCT 799 Dissertation	7 (0-14-14)
Total	7 (0-14-14)
Second Semester	Credits
BCT 799 Dissertation	7 (0-14-14)
Total	7 (0-14-14)
Fourth Year	
First Semester	Credits
BCT 799 Dissertation	7 (0-14-14)
Total	7 (0-14-14)
Second Semester	Credits
Second Semester BCT 799 Dissertation	Credits 6 (0-12-12)
BCT 799 Dissertation	6 (0-12-12)
BCT 799 Dissertation Total	6 (0-12-12)
BCT 799 Dissertation Total Fifth Year	6 (0-12-12) 6 (0-12-12)
BCT 799 Dissertation Total Fifth Year First Semester	6 (0-12-12) 6 (0-12-12) Credits
BCT 799 Dissertation Total Fifth Year First Semester BCT 799 Dissertation	6 (0-12-12) 6 (0-12-12) Credits 6 (0-12-12)
BCT 799 Dissertation Total Fifth Year First Semester BCT 799 Dissertation Total	6 (0-12-12) 6 (0-12-12) Credits 6 (0-12-12) 6 (0-12-12)