



**Master of Science Program in Biochemical Technology (International Program)**

**M.Sc. (Biochemical Technology)**

**Philosophy of the Program:**

Master of Science 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.

**Qualifications of a prospective candidate:**

The qualifications of applicants for admission to all study plans are in accordance with the regulations of the King Mongkut's University of Technology Thonburi on Graduate Studies, B.E. 2562 (2019)

Applicants must complete a bachelor's degree in Biochemical Technology, Chemistry, Food Science, Food Technology, Biotechnology or other equivalent programs with a cumulative grade point average not less than 2.50. For those with a grade lower than 2.50 must have research experiences related to the field of study. This shall be at the discretion of the program committee in considering the applicants on the following issues:

1. Publication
2. Awards Other works
3. Co-Curricular activities related to the program
4. Registered subjects

**Professions after graduation**

1. Researchers in Biotechnology in institutes, government and industrial sectors
2. Academics/Lecturers in Institutes focusing on Science, Technology, Power, Food, Agriculture of Engineering.
3. Educational Officers
4. Others such as Project Coordinator, Technician, Entrepreneurs or business owners

**Curriculum**

Plan 1.1	36 Credits
Plan 1.2	37 Credits



### Curriculum Components

#### Plan 1.1

- Major Course 2 Credits
- Dissertation 36 Credits

#### Plan 1.2

- Major Course 9 Credits
- Elective Course 16 Credits
- Dissertation 12 Credits

### COURSE STRUCTURE

#### Plan 1.1

##### First Year

###### First Semester

###### Credits

BCT 691 Seminar I: Mini-review	S/U
BCT 698 Dissertation	8 (0-16-16)
Total	8 (0-16-16)

###### Second Semester

###### Credits

BCT 692 Seminar II: Scientific Paper Analysis	S/U
BCT 698 Dissertation	8 (0-16-16)
Total	8 (0-16-16)

##### Second Year

###### First Semester

###### Credits

BCT 698 Dissertation	10 (0-20-20)
Total	10 (0-20-20)

###### Second Semester

###### Credits

BCT 698 Dissertation	10 (0-20-20)
Total	10 (0-20-20)

#### Plan 1.2

##### First Year

###### First Semester

###### Credits

BCT 641 Functional Properties of Biochemicals	3 (3-0-9)
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BCT 661 Biochemical Techniques and Laboratory Skills)	4 (2-6-8)
BCT xxx Elective Course	3 (3-0-9)
BCT xxx Elective Course	1 (1-0-3)
Total	11 (9-6-29)

Second Semester	Credits
BCT 691 Seminar I: Mini-review	1 (0-2-2)
BCT xxx Elective Course	3 (3-0-9)
BCT xxx Elective Course	3 (3-0-9)
BCT xxx Elective Course	3 (3-0-9)
BCT xxx Elective Course	3 (3-0-9)
Total	13 (12-2-38)

Second Year

First Semester	Credits
BCT 692 Seminar II: Scientific Paper Analysis	1 (0-2-2)
BCT 699 Dissertation	6 (0-12-12)
Total	7 (0-14-14)

Second Semester	Credits
BCT 699 Dissertation	6 (0-12-12)
Total	6 (0-12-12)