

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.

Professions after graduation

1. Academics/Lecturers in Institutes focusing on Science, Technology, Power, Food, Agriculture of Engineering.
2. Researchers in Biotechnology in institutes, government and industrial sectors

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 Credits
- ☐ Dissertation 48 Credits

Plan 2.2 for student with Bachelor degree

- ☐ Major Course 10 Credits
- ☐ Elective Course 16 Credits
- ☐ Dissertation 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

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

BCT 799 Dissertation	9 (0-18-18)
Total	9 (0-18-18)

Third Year

First Semester

BCT 799 Dissertation	9 (0-18-18)
Total	9 (0-18-18)

Second Semester

BCT 799 Dissertation	9 (0-18-18)
Total	9 (0-18-18)

Plan 2.2 for student with Bachelor degree

First Year

First Semester

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 Semester

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 Year

First Semester

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 Semester

BCT 799 Dissertation

Credits

6 (0-12-12)

Total

6 (0-12-12)

Third Year

First Semester

BCT 799 Dissertation

Credits

7 (0-14-14)

Total

7 (0-14-14)

Second Semester

BCT 799 Dissertation

Credits

7 (0-14-14)

Total

7 (0-14-14)

Fourth Year

First Semester

BCT 799 Dissertation

Credits

7 (0-14-14)

Total

7 (0-14-14)

Second Semester

BCT 799 Dissertation

Credits

6 (0-12-12)

Total

6 (0-12-12)

Fifth Year

First Semester

BCT 799 Dissertation

Credits

6 (0-12-12)

Total

6 (0-12-12)

Second Semester

BCT 799 Dissertation

Credits

6 (0-12-12)

Total

6 (0-12-12)