

Doctor of Philosophy Program in Biotechnology (International Program)

Ph.D. (Biotechnology)

Philosophy of the Program:

Doctor of Philosophy Program in Biotechnology aims at producing international standard researchers and academics with in-depth knowledge in Biotechnology. The graduates are also equipped with morals, ethics and researchers' code of conduct.

Applicant Qualifications

For Bachelor's Degree Holder

1. Applicants must complete degree in Science or Engineering or other equivalent programs with honors or
2. Studying in Master's Degree and obtain a cumulative grade point average not less than 3.50 and/or have the publication. This shall be at the discretion of the program committee in considering the applicants.
3. 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.

For Master's Degree Holder

1. Applicants must complete degree in Science or Engineering or other equivalent programs with a cumulative grade point average not less than 3.50 or
2. This shall be at the discretion of the program committee in considering the applicants and may select eligible applicants to take a trial study in the program based on publication and experience
3. 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

1. Academics/Lecturers in Biotechnology and Bioscience in institutes, government and industrial sectors
2. Researchers in Biotechnology in institutes, government and industrial sectors

3. Analysts and product designers in value-added Biotechnology
4. Entrepreneurs/Owners of biotechnology business
5. Consultants in Biotechnology projects or business
6. Standard auditors for work related to Biotechnology, such as ISO, GMP and HACCP
7. Educational Officers

Curriculum

| | | |
|---|----|---------|
| Plan 2.1 for student with Master degree | 48 | Credits |
| Plan 2.2 for student with Bachelor degree | 76 | Credits |

Curriculum Components

Plan 2.1 for student with Master degree

- Major Course 2 Credits
- Elective Course 10 Credits
- Dissertation 36 Credits

Plan 2.2 for student with Bachelor degree

- Major Course 3 Credits
- Elective Course 25 Credits
- Dissertation 48 Credits

COURSE STRUCTURE

Plan 2.1 for student with Master degree

| First Year/ First Semester | | Credits |
|----------------------------|-----------|---------------------------|
| Xxx | Selective | 3(3-0-9) |
| Xxx | Selective | 3(3-0-9) |
| Xxx | Selective | 3(3-0-9) |
| BIT 692 | Seminar | <u>1(0-2-3)</u> |
| Total | | <u>10 (9-2-30)</u> |

| First Year/ Second Semester | | Credits |
|-----------------------------|--------------|--------------------------|
| xxx xxx | Selective | 1(1-0-3) |
| BIT 693 | Seminar | 1(0-2-3) |
| BIT 798 | Dissertation | <u>5(0-10-20)</u> |
| Total | | <u>7(1-12-26)</u> |

| | | |
|-------------------------------------|----------------------|---------------------------|
| Second Year/ First Semester | | Credits |
| | BIT 798 Dissertation | <u>6 (0-12-24)</u> |
| | Total | <u>6 (0-12-24)</u> |
| Second Year/ Second Semester | | Credits |
| | BIT 798 Dissertation | <u>9 (0-18-36)</u> |
| | Total | <u>9 (0-18-36)</u> |
| Third Year/ First Semester | | Credits |
| | BIT 798 Dissertation | <u>9 (0-18-36)</u> |
| | Total | <u>9 (0-18-36)</u> |
| Third Year/ Second Semester | | Credits |
| | BIT 798 Dissertation | <u>7 (0-14-28)</u> |
| | Total | <u>7 (0-14-28)</u> |

Plan 2.2 for student with Bachelor degree

| | | |
|------------------------------------|-----------------|---------------------------|
| First Year/ First Semester | | Credits |
| | xxx Selective | 3 (3-0-9) |
| | xxx Selective | 3 (3-0-9) |
| | BIT 691 Seminar | <u>1 (0-2-3)</u> |
| | Total | <u>7 (6-2-21)</u> |
| First Year/ Second Semester | | Credits |
| | xxx Selective | 3(3-0-9) |
| | xxx Selective | 3(3-0-9) |
| | xxx Selective | 3(3-0-9) |
| | BIT 692 Seminar | <u>1(0-2-3)</u> |
| | Total | <u>10 (9-2-30)</u> |
| Second Year/ First Semester | | Credits |
| | xxx Selective | 3(3-0-9) |
| | xxx Selective | 3(3-0-9) |
| | xxx Selective | 3(3-0-9) |
| | BIT 693 Seminar | <u>1(0-2-3)</u> |

| | |
|-------------------------------------|--------------------------|
| Second Year/ Second Semester | Credits |
| xxx xxx Selected Topics | 1(1-0-3) |
| BIT 799 Dissertation | <u>6(0-12-24)</u> |
| Total | <u>7(1-12-27)</u> |
| | |
| Third Year/ First Semester | Credits |
| BIT 799 Dissertation | <u>8(0-16-32)</u> |
| Total | <u>8(0-16-32)</u> |
| | |
| Third Year/ Second Semester | Credits |
| BIT 799 Dissertation | <u>8(0-16-32)</u> |
| Total | <u>8(0-16-32)</u> |
| | |
| Forth Year/ First Semester | Credits |
| BIT 799 Dissertation | <u>8(0-16-32)</u> |
| Total | <u>8(0-16-32)</u> |
| | |
| Forth Year/ Second Semester | Credits |
| BIT 799 Dissertation | <u>6(0-12-24)</u> |
| Total | <u>6(0-12-24)</u> |
| | |
| Fifth Year/ First Semester | Credits |
| BIT 799 Dissertation | <u>6(0-12-24)</u> |
| Total | <u>6(0-12-24)</u> |
| | |
| Fifth Year/ Second Semester | Credits |
| BIT 799 Dissertation | <u>6(0-12-24)</u> |
| Total | <u>6(0-12-24)</u> |