**Doctor of Philosophy Program in Microbiology (2016)**

**Name of Degree**: Doctor of Philosophy (Microbiology)

**Abbreviation:** Ph.D. (Microbiology)

**Admission Requirements**

Type 1.1:

 Hold a master's degree in microbiology or related fields obtained microbiology subjects at least 15 credits with a GPA of at least 3.50

Type 1.2:

Hold a bachelor's degree in microbiology or related fields obtained microbiology subjects at least 15 credits with a GPA of at least 3.75

Type 2.1:

 Hold a master's degree in microbiology or related fields

Type 2.2:

Hold a bachelor's degree in microbiology or related fields with a GPA of at least 3.25

**Curriculum**

**Total Credits**

 Type 1.1 48 Credits

 Type 1.2 72 Credits

 Type 2.1 48 Credits

 Type 2.2 72 Credits

**Curriculum Structure**

|  |  |
| --- | --- |
| **Subject** | **Number of Credit** |
| **Type 1.1** | **Type 1.2** | **Type 2.1** | **Type 2.2** |
| Required Courses (\*) | 3 (Non Credit) | 5 (Non Credit) | 10 | 12 |
| Elective Courses (\*\*) | - | - | 2 | 12 |
| Dissertation | 48 | 72 | 36 | 48 |
| **Total** | 48 | 72 | 48 | 72 |

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| --- | --- |
| **First Year, 1st Semester** | **Number of Credit** |
| **Course Number** | **Course Title** | **Type 1.1** | **Type 1.2** | **Type 2.1** | **Type 2.2** |
| 317 713\* | Advanced Microbiology  | - | - | 4 | 4 |
| 317 771\* | Advance Research Techniques Microbiology | - | - | 2 | 2 |
| 317 991\* | Seminar in Microbiology I | 1(Non Credit) | 1(Non Credit) | 1 | 1 |
| 317 997 | Dissertation  | 8 | - | - | - |
| 317 996 | Dissertation  | - | 10 | - | - |
| 317 999 | Dissertation  | - | - | - | - |
| 317 998 | Dissertation  | - | - | - | - |
| xxx xxx\*\* | Elective  | - | - | 2 | 3 |
| **Total credits** | **8** | **10** | **9** | **10** |
| **cumulative credits** | **8** | **10** | **9** | **10** |

|  |  |
| --- | --- |
| **First Year, 2nd Semester** | **Number of Credit** |
| **Course Number** | **Course Title** | **Type 1.1** | **Type 1.2** | **Type 2.1** | **Type 2.2** |
| 317 714\*\* | Advanced Mycology  | - | - | - | 2 |
| or 317 715\*\* | Advanced Bacteriology | - | - | - | 2 |
| or 317 716\*\* | Advanced Virology and Immunology  | - | - | - | 2 |
| 317 722\* | Molecular Genetic | - | - | 2 | 2 |
| 317 992\* | Seminar in Microbiology II | 1(Non Credit) | 1(Non Credit) | 1 | 1 |
| 317 997 | Dissertation  | 8 | - | - | - |
| 317 996 | Dissertation  | - | 10 | - | - |
| 317 999 | Dissertation  | - | - | 6 | - |
| 317 998 | Dissertation  | - | - | - | 2 |
| xxx xxx\*\* | Elective  | - | - | - | 3 |
| **Total credits** | **8** | **10** | **9** | **9** |
| **cumulative credits** | **16** | **20** | **18** | **18** |

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| --- | --- |
| **Second Year, 1st Semester** | **Number of Credit** |
| **Course Number** | **Course Title** | **Type 1.1** | **Type 1.2** | **Type 2.1** | **Type 2.2** |
| 317 993\* | Seminar in Microbiology III | 1(Non Credit) | 1(Non Credit) | - | 1 |
| 317 997 | Dissertation  | 8 | - | - | - |
| 317 996 | Dissertation  | - | 10 | - | - |
| 317 999 | Dissertation  | - | - | 9 | - |
| 317 998 | Dissertation  | - | - | - | 4 |
| xxx xxx\*\* | Elective  | - | - | - | 4 |
| **Total credits** | **8** | **10** | **9** | **9** |
| **cumulative credits** | **24** | **30** | **27** | **29** |

|  |  |
| --- | --- |
| **Second Year, 2nd Semester** | **Number of Credit** |
| **Course Number** | **Course Title** | **Type 1.1** | **Type 1.2** | **Type 2.1** | **Type 2.2** |
| 317 994\* | Seminar in Microbiology IV | - | 1(Non Credit) | - | 1 |
| 317 997 | Dissertation | 9 | - | - | - |
| 317 996 | Dissertation | - | 10 | - | - |
| 317 999 | Dissertation  | - | - | 9 | - |
| 317 998 | Dissertation  | - | - | - | 10 |
| **Total credits** | **9** | **10** | **9** | **11** |
| **cumulative credits** | **33** | **40** | **36** | **40** |

|  |  |
| --- | --- |
| **Third Year, 1st Semester** | **Number of Credit** |
| **Course Number** | **Course Title** | **Type 1.1** | **Type 1.2** | **Type 2.1** | **Type 2.2** |
| 317 995**\*** | Seminar in Microbiology V | **-** | 1(Non Credit) | **-** | **-** |
| 317 997 | Dissertation | 9 | - | - | - |
| 317 996 | Dissertation | - | 10 | - | - |
| 317 999 | Dissertation | - | - | 9 | - |
| 317 998 | Dissertation | - | - | - | 10 |
| **Total credits** | **9** | **10** | **9** | **10** |
| **cumulative credits** | **42** | **50** | **45** | **50** |

|  |  |
| --- | --- |
| **Third Year, 2nd Semester** | **Number of Credit** |
| **Course Number** | **Course Title** | **Type 1.1** | **Type 1.2** | **Type 2.1** | **Type 2.2** |
| 317 997 | Dissertation | 6 | - | - | - |
| 317 996 | Dissertation | - | 10 | - | - |
| 317 999 | Dissertation | - | - | 3 | - |
| 317 998 | Dissertation | - | - | - | 10 |
| **Total credits** | **6** | **10** | **3** | **10** |
| **cumulative credits** | **48** | **60** | **48** | **60** |

|  |  |
| --- | --- |
| **Fourth Year, 1st Semester** | **Number of Credit** |
| **Course Number** | **Course Title** | **Type 1.1** | **Type 1.2** | **Type 2.1** | **Type 2.2** |
| 317 996 | Dissertation | - | 9 | - | - |
| 317 998 | Dissertation | - | - | - | 9 |
| **Total credits** | **-** | **9** | **-** | **9** |
| **cumulative credits** | **-** | **69** | **-** | **69** |

|  |  |
| --- | --- |
| **Fourth Year, 2nd Semester** | **Number of Credit** |
| **Course Number** | **Course Title** | **Type 1.1** | **Type 1.2** | **Type 2.1** | **Type 2.2** |
| 317 996 | Dissertation | - | 3 | - | - |
| 317 998 | Dissertation | - | - | - | 3 |
| **Total credits** | **-** | **3** | **-** | **3** |
| **cumulative credits** | **-** | **72** | **-** | **72** |

**Program Lecturers**

1. Associate Professor Dr. Sopon Boonlue

 2. Associate Professor Dr. Saowanit Tongpim

 3. Assistant Professor Dr. Theerasak Somdee

 4. Assistant Professor Dr. Ratanaporn Leesing

 5. Assistant Professor Dr. Surasak Siripornadulsil

6. Assistant Professor Dr. Suwanna Niamsanit

 7. Assistant Professor Dr. Atcha On-in