**Doctor of Philosophy Program in Organic Chemistry (2015)**

**Name of Degree:** Doctor of Philosophy (Organic Chemistry)

**Abbreviation:** Ph.D. (Organic Chemistry)

**Admission Requirements**

Type 1.1:

Hold a master's degree in organic chemistry or related fields with a GPA of at least 3.50 or with at least one international publication

Type 2.1:

Hold a master's degree in organic chemistry or related fields with a GPA of at least 3.25 or with at least one international publication

Type 2.2:

Hold a bachelor's degree in chemistry or related fields with a GPA of at least 3.25 or with at least one international publication

**Curriculum**

**Total Credits**

Type 1.1 48 Credits

Type 2.1 48 Credits

Type 2.2 72 Credits

**Curriculum Structure**

|  |  |  |  |
| --- | --- | --- | --- |
| **Course** | **Number of Credit** | | |
| **Type 1.1** | **Type 2.1** | **Type 2.2** |
| Required Courses | - | 3 | 12 |
| Elective Courses | - | 9 | 12 |
| Dissertation | 48 | 36 | 48 |
| **Total** | 48 | 48 | 72 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **First Year, 1st Semester** | | **Number of Credit** | | |
| **Course Number** | **Course Title** | **Type 1.1** | **Type 2.1** | **Type 2.2** |
| 313 711 | Advanced Organic Chemistry I | - | 3 (3-0-6) | 3 (3-0-6) |
| 313 712 | Advanced Organic Chemistry II | - | 3 (3-0-6) | 3 (3-0-6) |
| 313 713 | Advanced Organic Spectroscopy | - | 3 (3-0-6) | 3 (3-0-6) |
| 313 813 | Natural Product Chemistry | - | - | 2 (2-0-4) |
| 313 997 | Dissertation | 9 | - | - |
| **Total credits** | | **9** | **9** | **11** |
| **Cumulative credits** | | **9** | **9** | **11** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **First Year, 2nd Semester** | | **Number of Credit** | | |
| **Course Number** | **Course Title** | **Type 1.1** | **Type 2.1** | **Type 2.2** |
| 313 812 | Organic Stereochemistry | - | - | 2 (2-0-4) |
| 313 814 | Applications of Organometallic Compounds in Organic Synthesis | - | - | 2 (2-0-4) |
| 313 817 | Heterocyclic Chemistry | - | - | 2 (2-0-4) |
| 313 818 | Special Topics in Organic Chemistry I | - | - | 2 (2-0-4) |
| 313 81x | Elective | - | - | 2 (2-0-4) |
| 313 991 | Seminar in Organic Chemistry I | 1 (1-0-2)  (Non Credit) | 1 (1-0-2) | 1 (1-0-2) |
| 313 997 | Dissertation | **9** | - | - |
| 313 998 | Dissertation | - | - | - |
| 313 999 | Dissertation | - | 8 | - |
| **Total credits** | | **9** | **9** | **11** |
| **Cumulative credits** | | **18** | **18** | **22** |

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| --- | --- | --- | --- | --- |
| **Second Year, 1st Semester** | | **Number of Credit** | | |
| **Course Number** | **Course Title** | **Type 1.1** | **Type 2.1** | **Type 2.2** |
| 313 992 | Seminar in Organic Chemistry II | 1(1-0-2)  (Non Credit) | 1 (1-0-2) | 1 (1-0-2) |
| 313 997 | Dissertation | 9 | - | - |
| 313 998 | Dissertation | - | - | 8 |
| 313 999 | Dissertation | - | 8 | - |
| **Total credits** | | **9** | **9** | **9** |
| **Cumulative credits** | | **27** | **27** | **31** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Second Year, 2nd Semester** | | **Number of Credit** | | |
| **Course Number** | **Course Title** | **Type 1.1** | **Type 2.1** | **Type 2.2** |
| 313 993 | Seminar in Organic Chemistry III | 1(1-0-2)  (Non Credit) | 1 (1-0-2) | 1 (1-0-2) |
| 313 997 | Dissertation | 9 |  |  |
| 313 998 | Dissertation |  |  | 8 |
| 313 999 | Dissertation |  | 8 |  |
| **Total credits** | | **9** | **9** | **9** |
| **Cumulative credits** | | **36** | **36** | **40** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Third Year, 1st Semester** | | **Number of Credit** | | |
| **Course Number** | **Course Title** | **Type 1.1** | **Type 2.1** | **Type 2.2** |
| 313 997 | Dissertation | 9 | - | - |
| 313 998 | Dissertation | - | - | 9 |
| 313 999 | Dissertation | - | 9 | - |
| **Total credits** | | **9** | **9** | **9** |
| **Cumulative credits** | | **45** | **45** | **49** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Third Year, 2nd Semester** | | **Number of Credit** | | |
| **Course Number** | **Course Title** | **Type 1.1** | **Type 2.1** | **Type 2.2** |
| 313 997 | Dissertation | 3 | - | - |
| 313 998 | Dissertation | - | - | 9 |
| 313 999 | Dissertation | - | 3 | - |
| **Total credits** | | **3** | **3** | **9** |
| **Cumulative credits** | | **48** | **48** | **58** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Fourth Year, 1st Semester** | | **Number of Credit** | | |
| **Course Number** | **Course Title** | **Type 1.1** | **Type 2.1** | **Type 2.2** |
| 313 998 | Dissertation | - | - | 9 |
| **Total credits** | | **-** | **-** | **9** |
| **Cumulative credits** | | **-** | **-** | **67** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Fourth Year, 2nd Semester** | | **Number of Credit** | | |
| **Course Number** | **Course Title** | **Type 1.1** | **Type 2.1** | **Type 2.2** |
| 313 998 | Dissertation | - | - | 5 |
| **Total credits** | | **-** | **-** | **5** |
| **Cumulative credits** | | **-** | **-** | **72** |

**Program Committee**

1. Assoc. Prof. Dr. Chavi Yenjai

2. Prof. Dr. Somdej Kanokmedhakul

3. Asst. Prof. Dr. Panawan Moosopol

4. Asst. Prof. Dr. Phitak Nasomjai

5. Asst. Prof. Dr. Sirirath Sodngam