**Doctor of Philosophy Program in Environmental Science**

**Name of Degree:** Doctor of Philosophy (Environmental Science)

**Abbreviation:** Ph.D. (Environmental Science)

**Admission Requirements**

* **Type 1.1**: Dissertation without coursework (48 credits)

Applicants must have earned a master's degree in Environmental Science or higher or a master’s degree in Science in relating fields or higher with a GPA of at least 3.50 from an accredited institution or had a research experience at least two years with a minimum of one publication in a national or international journal.

* **Type 1.2**: Dissertation without coursework (72 credits)
1. Applicants must have earned a bachelor's degree in Environmental Science or a bachelor’s degree in Science in relating fields with a GPA of at least 3.50 from an accredited institution, or
2. Applicants must have earned a bachelor's degree in Environmental Science or a bachelor’s degree in Science in relating fields with a GPA of at least 3.25 from an accredited institution or had a research experience at least two years with a minimum of one publication in a national or international journal.
* **Type 2.1**: Dissertation with coursework (48 credits)

Applicants must have earned a master's degree in Environmental Science or higher or a master’s degree in Science in relating fields or higher with a GPA of at least 3.50 from an accredited institution or had a research experience at least two years with a minimum of one publication in a national or international journal.

* **Type 2.2**: Dissertation with coursework (72 credits)
1. Applicants must have earned a bachelor's degree in Environmental Science or a bachelor’s degree in Science in relating fields with a GPA of at least 3.50 from an accredited institution, or
2. Applicants must have earned a bachelor's degree in Environmental Science or a bachelor’s degree in Science in relating fields with a GPA of at least 3.25 from an accredited institution or had a research experience at least two years with a minimum of one publication in a national or international journal.

 **Note:** 1) Applicants who do not meet the prior eligibility will be considered case by case by the admission committee and/or program management committee. 2) All applicants are recommended to contact a faculty member who will be possible to serve as a major advisor.

**Curriculum**

**Total Credits**

* Type 1.1: Dissertation without coursework (48 credits of dissertation + seminar)
* Type 1.2: Dissertation without coursework (72 credits of dissertation + seminar)
* Type 2.1: Dissertation with coursework (36 credits of dissertation + 12 credits of elective courses + seminar)
* Type 2.2: Dissertation with coursework (48 credits of dissertation + 13 credits of compulsory courses + 11 credits of elective courses + seminar)

**Curriculum Structure**

|  |  |
| --- | --- |
| **Course**  | **Number of Credit** |
| **Type 1.1** | **Type 1.2** | **Type 2.1** | **Type 2.2** |
| Required Courses (\*) | (Non Credit) | (Non Credit) | (Non Credit) | 13 |
| Elective Courses (\*\*) | - | - | 12 | 11 |
| Dissertation | 48 | 72 | 36 | 48 |
| **Total** | 48 | 72 | 48 | 72 |

 **Type 1.1 and Type 1.2**

|  |  |
| --- | --- |
| **First Year, 1st Semester** | **Number of Credit** |
| **Course Number** | **Course Title** | **Type 1.1** | **Type 1.2** |
| 319 997 | Dissertation | 9 | -  |
| 319 996 |  Dissertation | - | 9 |
| **Total credits** | **9** | **9** |
| **Cumulative credits** | **9** | **9** |

|  |  |
| --- | --- |
| **First Year ,2nd Semester** | **Number of Credit** |
| **Course Number** | **Course Title** | **Type 1.1** | **Type 1.2** |
| 319 991\* | Seminar in Environmental Science  | (1) (Non Credit) | (1) (Non Credit)  |
| 319 997 | Dissertation | 9 | - |
| 319 996 | Dissertation | - | 9 |
| **Total credits** | **9** | **9** |
| **Cumulative credits** | **18** | **18** |

|  |  |
| --- | --- |
| **Second Year, 1st Semester** | **Number of Credit** |
| **Course Number** | **Course Title** | **Type 1.1** | **Type 1.2** |
| 319 991\* | Seminar in Environmental Science | (1) (Non Credit) | (1) (Non Credit)  |
| 319 997 | Dissertation | 9 | - |
| 319 996 | Dissertation | - | 9 |
| **Total credits** | **9** | **9** |
| **Cumulative credits** | **27** | **27** |

|  |  |
| --- | --- |
| **Second Year ,2nd Semester** | **Number of Credit** |
| **Course Number** | **Course Title** | **Type 1.1** | **Type 1.2** |
| 319 991\* | Seminar in Environmental Science  | (1) (Non Credit) | (1) (Non Credit)  |
| 319 997 | Dissertation | 9 | - |
| 319 996 | Dissertation | - | 9 |
| **Total credits** | **9** | **9** |
| **Cumulative credits** | **36** | **36** |

|  |  |
| --- | --- |
| **Third Year ,1st Semester** | **Number of Credit** |
| **Course Number** | **Course Title** | **Type 1.1** | **Type 1.2** |
| 319 997 | Dissertation | 9 | - |
| 319 996 | Dissertation | - | 9 |
| **Total credits** | **9** | **9** |
| **Cumulative credits** | **45** | **45** |

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| --- | --- |
| **Third Year ,2nd Semester** | **Number of Credit** |
| **Course Number** | **Course Title** | **Type 1.1** | **Type 1.2** |
| 319 997 | Dissertation | 3 | - |
| 319 996 | Dissertation | - | 9 |
| **Total credits** | **3** | **9** |
| **Cumulative credits** | **48** | **54** |

|  |  |
| --- | --- |
| **Fourth Year ,1st Semester** | **Number of Credit** |
| **Course Number** | **Course Title** | **Type 1.1** | **Type 1.2** |
| 319 996 | Dissertation |  | 6 |
| **Total credits** | **-** | **6** |
| **Cumulative credits** | **48** | **60** |

|  |  |
| --- | --- |
| **Fourth Year ,2nd Semester** | **Number of Credit** |
| **Course Number** | **Course Title** | **Type 1.1** | **Type 1.2** |
| 319 996 | Dissertation |  | 6 |
| **Total credits** | **-** | **6** |
| **Cumulative credits** | **48** | **66** |

|  |  |
| --- | --- |
| **Fifth Year ,1st Semester** | **Number of Credit** |
| **Course Number** | **Course Title** | **Type 1.1** | **Type 1.2** |
| 319 996 | Dissertation |  | 3 |
| **Total credits** | **-** | **3** |
| **Cumulative credits** | **48** | **69** |

|  |  |
| --- | --- |
| **Fifth Year ,2nd Semester** | **Number of Credit** |
| **Course Number** | **Course Title** | **Type 1.1** | **Type 1.2** |
| 319 996 | Dissertation |  | 3 |
| **Total credits** | **-** | **3** |
| **Cumulative credits** | **48** | **72** |

 **Type 2.1 and Type 2.2**

|  |  |
| --- | --- |
| **First Year, 1st Semester** | **Number of Credit** |
| **Course Number** | **Course Title** | **Type 2.1** | **Type 2.2** |
| 319 701\* | Ecological Principles and Natural Resource Conservation  | - | 2 |
| XXX XXX \*\* | Electives Course | 6 | 6 |
| 319 999 | Dissertation  | 3 | - |
| 319 998 | Dissertation | - | 3 |
| **Total credits** | **9** | **11** |
| **Cumulative credits** | **9** | **11** |

|  |  |
| --- | --- |
| **First Year ,2nd Semester** | **Number of Credit** |
| **Course Number** | **Course Title** | **Type 2.1** | **Type 2.2** |
| 316 724\* | Experimental Designs | - | 3 |
| 319 700\* | Research Methodology in Environmental Science | - | 3 |
| 319 702\* | Integrated Environmental Management | - | 3 |
| XXX XXX | Electives Course | 6 | - |
| 319 991 | Seminar in Environmental Science | (1) (Non Credit) | (1) (Non Credit) |
| 319 999 | Dissertation | 3 | - |
| 319 998 | Dissertation | - | 3 |
| **Total credits** | **9** | **12** |
| **Cumulative credits** | **18** | **23** |

|  |  |
| --- | --- |
| **Second Year, 1st Semester** | **Number of Credit** |
| **Course Number** | **Course Title** | **Type 2.1** | **Type 2.2** |
| 319 991 | Seminar in Environmental Science | (1) (Non Credit) | (1) (Non Credit) |
| 319 993\* | Current Topics in Environmental Science | - | 2 |
| XXX XXX | Electives Course | - | 2 |
| 319 999 | Dissertation | 9 | - |
| 319 998 | Dissertation | - | 6 |
| **Total credits** | **9** | **10** |
| **Cumulative credits** | **27** | **33** |

|  |  |
| --- | --- |
| **Second Year ,2nd Semester** | **Number of Credit** |
| **Course Number** | **Course Title** | **Type 2.1** | **Type 2.2** |
| 319 991 | Seminar in Environmental Science | (1) (Non Credit) | (1) (Non Credit) |
| XXX XXX | Electives Course | - | 3 |
| 319 999 | Dissertation | 9 | - |
| 319 998 | Dissertation | - | 6 |
| **Total credits** | **9** | **9** |
| **Cumulative credits** | **36** | **42** |

|  |  |
| --- | --- |
| **Third Year ,1st Semester** | **Number of Credit** |
| **Course Number** | **Course Title** | **Type 2.1** | **Type 2.2** |
| 319 999 | Dissertation | 6 | - |
| 319 998 | Dissertation | - | 6 |
| **Total credits** | **6** | **6** |
| **Cumulative credits** | **42** | **48** |

|  |  |
| --- | --- |
| **Third Year ,2nd Semester** | **Number of Credit** |
| **Course Number** | **Course Title** | **Type 2.1** | **Type 2.2** |
| 319 999 | Dissertation | 6 | - |
| 319 998 | Dissertation | - | 6 |
| **Total credits** | **6** | **6** |
| **Cumulative credits** | **48** | **54** |

|  |  |
| --- | --- |
| **Fourth Year ,1st Semester** | **Number of Credit** |
| **Course Number** | **Course Title** | **Type 2.1** | **Type 2.2** |
| 319 998 | Dissertation | - | 6 |
| **Total credits** | **-** | **6** |
| **Cumulative credits** | **48** | **60** |

|  |  |
| --- | --- |
| **Fourth Year ,2nd Semester** | **Number of Credit** |
| **Course Number** | **Course Title** | **Type 2.1** | **Type 2.2** |
| 319 998 | Dissertation |  | 6 |
| **Total credits** | **-** | **6** |
| **Cumulative credits** | **48** | **66** |

|  |  |
| --- | --- |
| **Fifth Year ,1st Semester** | **Number of Credit** |
| **Course Number** | **Course Title** | **Type 2.1** | **Type 2.2** |
| 319 998 | Dissertation |  | 3 |
| **Total credits** | **-** | **3** |
| **Cumulative credits** | **48** | **69** |

|  |  |
| --- | --- |
| **Fifth Year ,2nd Semester** | **Number of Credit** |
| **Course Number** | **Course Title** | **Type 2.1** | **Type 2.2** |
| 319 998 | Dissertation |  | 3 |
| **Total credits** | **-** | **6** |
| **Cumulative credits** | **48** | **72** |

**Program Lecturers**

1. Asst. Prof. Dr. Pisit Chareonsudjai
2. Asst. Prof. Dr. Penprapa Petcharaburanin
3. Asst. Prof. Dr. Lamyai Neeratanaphan
4. Asst. Prof. Dr. Sarun Keithmaleesatti
5. Asst. Prof. Dr. Adcharaporn Pagdee
6. Dr. Wangworn Sankamethawee
7. Dr. Thotsapol Chaianunporn
8. Dr. Pornsawai Praipipat