**Master of Science Program in Applied Mathematics (2011)**

**Name of Degree:** Master of Science (Applied Mathematics)

**Abbreviation:** M.Sc. (Applied Mathematics)

**Admission Requirements**

Plan A Type A 1:

Hold a bachelor’s degree, or an equivalent qualification, in mathematics or applied mathematics with a GPA of at least 3.50; or hold a suitable qualification approved by the Curriculum Executive Committee

Plan A Type A 2:

Hold a bachelor’s degree, or an equivalent qualification, in mathematics, applied mathematics, mathematics education, or in any fields incorporating at least 15 credits of mathematics; or hold a suitable qualification approved by the Curriculum Executive Committee

**Curriculum**

**Total Credits**

Plan A Type A 1 36 Credits

Plan A Type A 2 36 Credits

**Curriculum Structure** **Type A 1** **Type A 2**

Required Courses (\*) 2 (Non-credit) 12 Credits

Elective Courses (\*\*) - 12 Credits

Thesis 36 12 Credits

**Total 36 36 Credits**

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| --- | --- | --- | --- |
| **First Year, 1st Semester** | | **Number of Credits** | |
| **Course Number** | **Course Title** | **Plan A Type A 1** | **Plan A Type A 2** |
| 323 721\* | Real Analysis and Applications | - | 3(3-0-6) |
| 323 722\* | Functional Analysis and Applications | - | 3(3-0-6) |
| 323 761\* | Numerical Analysis | - | 3(3-0-6) |
| 323 898 | Thesis | 9 | - |
| **Total credits** | | **9** | **9** |
| **Cumulative credits** | | **9** | **9** |

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| --- | --- | --- | --- |
| **First Year, 2nd Semester** | | **Number of Credits** | |
| **Course Number** | **Course Title** | **Plan A Type A 1** | **Plan A Type A 2** |
| 323 731\* | Theory of Ordinary Differential Equation | - | 3(3-0-6) |
| 323 732\*\* | Partial Differential Equations | - | 3(3-0-6) |
| 323 741\*\* | Mathematical Modeling |  | 3(3-0-6) |
| 323 898 | Thesis | 9 | - |
| **Total credits** | | **9** | **9** |
| **Cumulative credits** | | **18** | **18** |

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| --- | --- | --- | --- |
| **Second Year, 1st Semester** | | **Number of Credits** | |
| **Course Number** | **Course Title** | **Plan A Type A 1** | **Plan A Type A 2** |
| 323 891\* | Seminar in Applied Mathematics | 1(1-0-2)  (Non-credit) | 1(1-0-2)  (Non-credit) |
| 323 749\*\* | Mathematics of Finance | - | 3(3-0-6) |
| 323 898 | Thesis | 9 | - |
| 323 899 | Thesis | - | 6 |
| **Total credits** | | **9** | **9** |
| **Cumulative credits** | | **27** | **27** |

|  |  |  |  |
| --- | --- | --- | --- |
| **Second Year, 2nd Semester** | | **Number of Credits** | |
| **Course Number** | **Course Title** | **Plan A Type A 1** | **Plan A Type A 2** |
| 323 892\* | Research Seminar | 1(1-0-2)  (Non-credit) | 1(1-0-2)  (Non-credit) |
| 323 742\*\* | Mathematical Control Theory | - | 3(3-0-6) |
| 323 898 | Thesis | 9 | - |
| 323 899 | Thesis | - | 6 |
| **Total credits** | | **9** | **9** |
| **Cumulative credits** | | **36** | **36** |

**Program Lecturers**

1. Assoc. Prof. Dr. Supot Waitayangkurn

2. Asst. Prof. Dr. Angkana Boonyued

3. Asst. Prof. Dr. Banchar Arnonkijpanich

4. Asst. Prof. Dr. Kamsing Nonlaopon

5. Asst. Prof. Dr. Kanit Mukdasai