**Master of Science Program in Materials Science and Nanotechnology**

**Name of Degree:** Master of Science (Materials Science and Nanotechnology**)**

**Abbreviation:** M.Sc. (Materials Science and Nanotechnology)

**Curriculum**

**Total Credits**

Plan A Type A 2 38 Credits

**Curriculum Structure**

Required Courses (\*) 14 Credits

Elective Courses (\*\*) 9 Credits

Thesis 15 Credits

Total 38 Credits

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| **First Year, 1st Semester** | | **Number of Credit** |
| **Course number** | **Course title** |
| 301 701\* | Fundamentals of Materials Science | 3 (3-0-6) |
| 301 702\* | Fundamentals of Nanoscience and Nanotechnology | 3 (3-0-6) |
| 301 703\* | Structures and Properties of Materials and Nanomaterials | 3 (3-0-6) |
| **Total credits** | | **9** |
| **Cumulative credits** | | **9** |

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| **First Year, 2nd Semester** | | **Number of Credit** |
| **Course number** | **Course title** |
| 301 704\* | Materials fabrication and characterization | 3 (3-0-6) |
| 301 891\* | Seminar in Materials science and Nanotechnology I | 1 (1-0-2) |
| 301 708\*\* | Computational Materials Science | 3 |
| 301 733\*\* | Molecular Simulations and Applications | 3 |
| 301 762\*\* | Nanophysics | 3 |
| 301 763\*\* | Design and Analysis of Experiments for Materials Science | 3 |
| 301 771\*\* | Sintering of Ceramics | 3 |
| **Total credits** | | **10** |
| **Cumulative credits** | | **19** |

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| **Second Year, 1st Semester** | | **Number of Credit** |
| **Course number** | **Course title** |
| 301 892\* | Seminar in Materials science and nanotechnology II | 1 (1-0-2) |
| 301 899 | Thesis | 6 |
| 301 709\*\* | Electrospinning and Nanofibrous Materials | 3 |
| 301 730\*\* | Selected topics in Materials Science and nanotechnology | 3 |
| 301 732\*\* | Thermoelectric Materials | 3 |
| 301 772\*\* | Piezoelectric Ceramics | 3 |
| **Total credits** | | **10** |
| **Cumulative credits** | | **29** |

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| **Second Year, 2nd Semester** | | **Number of Credit** |
| **Course number** | **Course title** |
| 301 899 | Thesis | 9 |
| **Total credits** | | **9** |
| **Cumulative credits** | | **38** |

**Program Lecturers**

1. Assc. Prof. Dr. Sutham Srilomsak
2. Asst. Prof. Dr. Sriprajak Krongsuk
3. Asst. Prof. Dr. Pairot Moontrakool
4. Asst. Prof. Dr. Pornjak Srepusharawoot
5. Asst. Prof. Dr. Prasit Thongbai
6. Asst. Prof. Dr. Apichoke Tangtrakarn
7. Asst. Prof. Dr. Supree Pinitsoontorn
8. Asst. Prof. Dr. Nonglak Meethong
9. Asst. Prof. Dr. Pawinee Klangtakai
10. Asst. Prof. Dr. Viyada Harnchana
11. Dr. Wirat Jarernboon
12. Dr. Theerapong Puangmali
13. Dr. Rattakarn Yensano
14. Dr. Sujitra Daengsakul