Specific Qualifications of the Program

Master of Science Program in Nanoscience and Nanotechnology

Academic Year 2026

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Faculty Science

Number of Admissions:

Plan A Type A (1) (Regular Program)	2	persons
Plan A Type A (2) (Regular Program)	2	persons

Specific Qualifications:

1) Have completed a Bachelor's degree in Science or Engineering, or are in the final semester of a Bachelor's degree program in Science, Engineering, or other related fields as approved by the Selection Committee; and

2) Have a cumulative GPA of not less than 2.50, or as approved by the Program Committee; and

3) The applicant's thesis advisor of interest must have secured research funding prior to admission, in cases where the applicant does not use personal funds.

Thesis Guidelines

Master of Science Program in Nanoscience and Nanotechnology

Academic Year 2026

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Topic 1 Graphene-metal oxide nanohybrids for smart agriculture sensors
Thesis Advisor: Associate Professor Dr. Viruntachar Kruefu

Topic 2 Metal oxide Semi-conductor gas sensors for environmental monitoring
Thesis Advisor: Associate Professor Dr. Viruntachar Kruefu

Topic 3 Development of a Low Power Interface Circuit for Nano Sensors
Thesis Advisor: Dr. Patcharee Kongpark

Topic 4 Synthesis of Cadmium Free Quantum Dots and Its Application for and Electrochemiluminescence Enhancer
Thesis Advisor: Associate Professor Dr. Sakchai Satienperakul

Topic 5 Redox Nanometal Functionalized-Carbon Nanotube Linked Chitosan for Determination of Hydrogen Peroxide
Thesis Advisor: Assistant Professor Dr. Tanin Tangkuaram

Topic 6	Chemical Synthesis and Characterization of Copper Oxide Nanopowder Thesis Advisor: Assistant Professor Dr. Pusit Pookmanee
Topic 7	Nanostructure and Electrical Properties of Metal oxide-Reduced graphene oxide Thesis Advisor: Assistant Professor Dr. Ratchadaporn Puntharod
Topic 8	Synthesis of Carbon nanotubes from Biochar and their applications Thesis Advisor: Associate Professor Dr. Theerapol Thurakitseree
Topic 9	Study of seed germination effects by using irradiation and plasma technique Thesis Advisor: Dr. Kittikhun Prakrajang
Topic 10	Study of LD-50 seed germination curve of gamma irradiation and nano-particles Thesis Advisor: Dr. Kittikhun Prakrajang
Topic 11	Nano-crystallised glass-ceramics for alternative energy applications Thesis Advisor: Assistant Professor Dr. Nattapol Laorodphan

Required Application Documents:

- A digital file of a straight-face photograph, size 1 inch (300 x 400 pixels), without a hat or dark glasses, taken within the last 6 months; graduation gown photos are not permitted (to be uploaded to the application system).
- A recommendation letter, in the format provided by the Admissions and Public Relations Division, duly filled and signed by a supervisor, a former instructor, or an individual who knows the applicant well (excluding family members).
- A copy of the passport (only the first page with personal information).
- A copy of the undergraduate transcript.
- A copy of the transcript of records at the Higher Vocational Certificate (High Vocational Diploma) level, or an equivalent Associate Degree.
- A copy of the document showing name/surname change, or marriage certificate (in case the name/surname does not match other application documents).
- A certificate of student status for those in the final semester of their undergraduate program.
- Research/Thesis Title with Research Approach.

Tuition Fees:

For more information about tuition fees, please visit the website:
https://admissions.mju.ac.th/graduate/en/Default.aspx and select the appropriate menu >> **Tuition Fee (Master)**