



**Specific Qualifications of the Program**  
**Doctor of Philosophy Program in Applied Chemistry**  
**Academic Year 2026**

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<b>Faculty</b>	Science	
<b>Number of Admissions:</b>	Type 1.1 (Regular Program)	1 person
	Type 1.2 (Regular Program)	1 person
	Type 2.1 (Regular Program)	1 person
	Type 2.2 (Regular Program)	1 person

**Specific Program Qualifications**

**Type 1.1**

- 1) Applicants must not have been expelled from any educational institution due to misconduct and must be physically healthy with no diseases that would impede their studies.
- 2) Applicants must hold a Master's degree or its equivalent in Science or Engineering, specifically in Chemistry, Industrial Chemistry, Geology, Physics, Biology, Biotechnology, Botany, Genetics, or other related fields, with a cumulative GPA (GPAX) of no less than 3.50; or
- 3) Applicants who have graduated as specified in item 2 but have a cumulative GPA (GPAX) below 3.25 must have at least two published research papers or have worked in chemistry or related fields for no less than one year.
- 4) Other cases are at the discretion of the program committee.

**Type 1.2**

- 1) Applicants must not have been expelled from any educational institution due to misconduct and must be in good physical health with no diseases that would impede their studies.
- 2) Applicants must have completed a Bachelor's degree or its equivalent in Science or Engineering, specifically in Chemistry, Industrial Chemistry, Geology, Physics, Biology, Biotechnology, Botany, Genetics, or other related fields, with a cumulative GPA (GPAX) of not less than 3.50, or be enrolled in an Honors program or an equivalent program; or
- 3) Applicants who have graduated as specified in item 2 but have a GPA (GPAX) of not less than 3.25 must have at least two published research articles or have at least one year of work experience in chemistry or related fields.

4) Other cases are subject to the discretion of the program committee.

5) Applicants must also meet the qualifications specified in regulations regarding postgraduate studies enacted by Maejo University at the time and any other relevant university regulations as applicable.

#### **Type 2.1**

1) Applicants must not have been expelled from any educational institution due to misconduct and must be physically healthy, with no diseases that would impede their studies.

2) Applicants must possess a Master's degree or its equivalent in Science, Engineering, Education, or Education Sciences, specifically in Chemistry, Industrial Chemistry, Geology, Physics, Biology, Biotechnology, Botany, Genetics, or other related fields, with a cumulative GPA (GPAX) of not less than 3.50; or

3) Applicants who meet the criteria in item 2 but have a cumulative GPA (GPAX) of less than 3.50 must have at least one published research article.

4) Other cases are subject to the discretion of the program committee.

#### **Type 2.2**

1) Applicants must not have been expelled from any educational institution due to misconduct and must be in good physical health, with no diseases that would impede their studies.

2) Applicants must have completed a Bachelor's degree or its equivalent in Science, Engineering, Education (B.Ed.), or Education Sciences (B.Ed.), specifically in Chemistry, Industrial Chemistry, Geology, Physics, Biology, Biotechnology, Botany, Genetics, or other related fields, with a cumulative GPA (GPAX) of not less than 3.50; or be enrolled in an advanced Bachelor's program or an equivalent program; or

3) Applicants who meet the criteria in item 2 but have a cumulative GPA (GPAX) of not less than 3.25 must have at least one published research article or have at least one year of professional experience in chemistry or other related fields.

4) Other cases are subject to the discretion of the program committee.

**Thesis Guidelines**  
**Doctor of Philosophy Program in Applied Chemistry**  
**Academic Year 2026**

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- Topic 1**      Electrochemical sensor for monupiravir  
Thesis Advisor: Assistant Professor Dr. Tanin Tangkuaram
- Topic 2**      Development of a Miniaturized Electrochemiluminescent Sensing Device Based on Quantum Dot Nanoparticles  
Thesis Advisor: Associate Professor Dr. Sakchai Satienperakul
- Topic 3**      Preparation of Microcapsules Encapsulating Natural Products for Enhanced Stability  
Thesis Advisor: Associate Professor Dr. Thitiphan Chimsook
- Topic 4**      Nanocomposite metal oxide-reduced graphene oxide and electrical properties for anode material in Li-ion batteries  
Thesis Advisor: Assistant Professor Dr. Ratchadaporn Puntharod
- Topic 5**      Coupled Chromatography Techniques for the Analysis of Natural and Environmental Compounds  
Thesis Advisor: Assistant Professor Dr. Supaporn Sangsrichan
- Topic 6**      Development of VOCs Gas Sensor Based on Electrospun Hybrid 2D- Nanofibers for Application in Smart Agriculture  
Thesis Advisor: Associate Professor Dr. Viruntachar Kruefu

**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 copy of the passport (only the first page with personal information).
- A copy of the Master's Degree Academic Transcript
- A certificate of student status for those in the final semester of their Master's Degree Program
- A copy of the document showing name/surname change, or marriage certificate (in case the name/surname does not match other application documents).
- Expected Research Proposal Outline

**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 (Doctoral)**