

## Course Application for E-Cube-I Scholarship 2022

<b>Course name</b>	Master of Science in Applied Chemistry
<b>Course Details</b>	<p>The Master's degree of Science in Applied Chemistry is a research-intensive graduate program focused on intellectual development and creation of novel technology or innovation for sustainable changes in three fields of specialization:</p> <p>(1) Materials Chemistry and Nanotechnology:</p> <ul style="list-style-type: none"> <li>- Functional Polymers, Polymerization in aqueous dispersed systems</li> <li>- Polymer Microcapsules and Microspheres, Biopolymer</li> <li>- Photoelectrocatalysis, Thin-film fabrication, Energy and Environmental application</li> <li>- Photocatalytic nanomaterials</li> <li>- Theoretical and Computational Chemistry, Heterogeneous Catalysis</li> </ul> <p>(2) Environmental and Analytical Chemistry:</p> <ul style="list-style-type: none"> <li>- Chemical sensor, Biosensor, Electrochemistry, Nanomaterials</li> <li>- Wastewater Treatment</li> <li>- Sample preparation, Environmental and Analytical Chemistry, Chromatography</li> </ul> <p>(3) Biochemicals:</p> <ul style="list-style-type: none"> <li>- Plant biochemistry, Bio-active compounds, Protein structure , and functional</li> <li>- Biochemistry, Proteomics and Protein mechanism</li> <li>- Fluorescence sensors, Nanomaterials, and Natural product</li> </ul> <p><b>Duration of Course:</b> 2 years  <b>Language of Instruction:</b> Thai/English</p> <p><b><u>Course Contents</u></b>  Total of Credit: 36 Credits  Program Structure  <b>1. Compulsory Course (9 credits)</b></p>

	<p>2. Elective Courses (15 credits)  <i>(Each field select at least one course of the other fields)</i></p> <p>2.1 Materials Chemistry and Nanotechnology</p> <p>2.2 Environmental and Analytical Chemistry</p> <p>2.3 Biochemicals</p> <p>3. Master's Thesis (12 credits)</p>
Required-number of Undergraduate-Student	-
Required-number of Graduate-Student	5
Course conditions	-
Applicant qualifications (Specific qualifications)	<ol style="list-style-type: none"> <li>1. To hold a Bachelor's degree in Chemistry or related program from an accredited institution comparable to the degree offered at RMUTT, or expected to acquire such a degree before the RMUTT enrollment date.</li> <li>2. To have an excellent academic record from reputable universities.</li> <li>3. To have the aim, satisfactory knowledge, and research skills to work in the research field of this program</li> <li>4. Application documents <ul style="list-style-type: none"> <li>- Resume</li> <li>- Original bachelor's degree academic transcripts in English (Included date of issue) or their photocopies verified and bears FRESH school stamp by the graduated university or by a notary public. The transcript must contain all the courses studied each year, including the marks or grades for each course and GPA.If the applicants are still studying for a bachelor's degree, a temporary academic transcript must be provided.</li> <li>- Briefly the research interest in English and list of publications (if available).</li> </ul> </li> </ol>

	<ul style="list-style-type: none"><li>- Research proposal (1-2 pages in length): A detail of the research plan related to the program's interesting research fields and topics.</li></ul>
<b>Contact person</b>	Name: Assoc. Prof. Dr.Amorn Chaiyasat Phone/ Mobile Number:+66 98 826 3085 E-mail: a_chaiyasat@mail.rmutt.ac.th <a href="https://www.facebook.com/ApplChem">https://www.facebook.com/ApplChem</a>