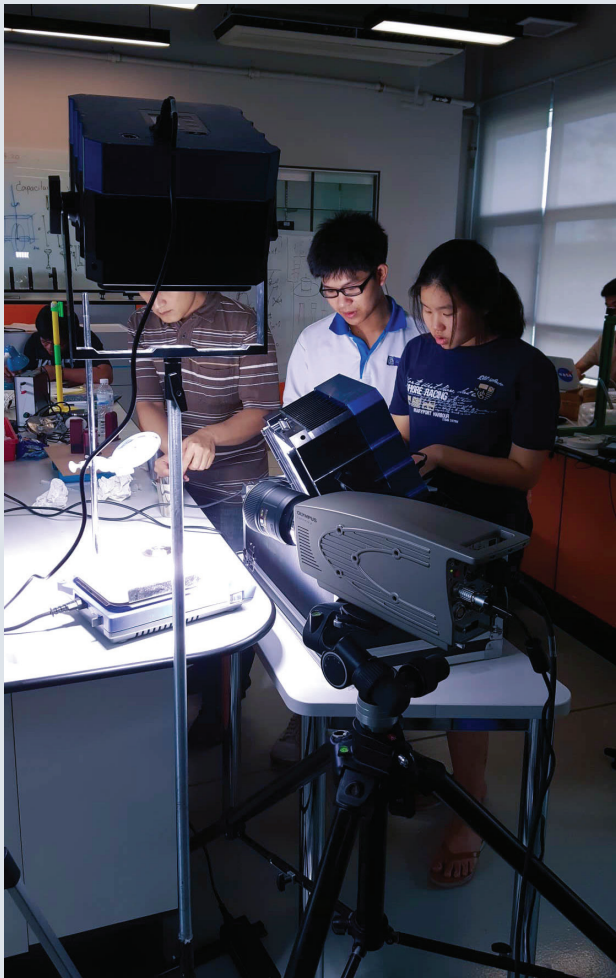


Master Program in Teaching Physics



For more information,
please visit the following website.
www.physics.science.cmu.ac.th



Master of Science Program in Teaching Physics

Type 2 (Plan A Type A2)

Degree Requirements Total **a minimum of 38 credits**

A. Coursework a minimum of 26 credits

1. Graduate courses a minimum of 26 credits

1.1 Field of Specialization a minimum of 23 credits

1.1.1 Required courses 20 credits

225701 Mechanics 1 2 credits

225702 Mechanics 2 2 credits

225703 Thermal Physics and Modern Physics 2 credits

225704 Quantum Mechanics 2 credits

225705 Electromagnetism 1 2 credits

225706 Electromagnetism 2 2 credits

225707 Experimentation and Experimental Designs in Physics 1 credit

225708 Experimentation in Physics for Teaching STEM Education
Approach 1 credit

225711 Active-Learning Approach in Physics Teaching 2 credit

225720 Physics Education Research 2 credits

225791 Seminar in Physics Teaching 1 1 credit

225792 Seminar in Physics Teaching 2 1 credit

1.1.2 Elective courses a minimum of 3 credits

A student may select any courses related to his/her thesis research from the following courses.

225723 Atomic and Molecular Physics 3 credits

225731 Electricity and Electronics for Teacher 3 credits

225743 Physics of Solids 3 credits

225747 Thermal Physics 3 credits

225748 The Earth and the Universe 3 credits

or select other graduate courses related to his/her thesis with an approval of his/her advisor and the Graduate Program Administrative committee from courses in graduate level in Physics (207...), Applied Physics (217...), Teaching Physics (225...) and Astronomy (226...).

1.2 Other courses 3
credits

1.2.1 Required courses 3
credits

206766 Mathematical Methods in Physics 3 credits

1.2.2 Elective courses None

2. Advanced undergraduate courses None

B. Thesis 12 credits

225799 Master's Thesis 12 credits

C. Non-credit courses

1. Graduate School requirement – a foreign language

2. Program requirement – None

D. Academic activities

At least 1 master's thesis work or a part of master's thesis work must be published or at least accepted to publish in a national journal listed in TCI Tier 1 database with the student as the first author or at least 1 master's thesis work or a part of master's thesis work must be presented in international conference accepted by the field of study.