

Doctor of Philosophy Program in Nanoscience and Nanotechnology

Research Fields

Nanotechnology for Medical Applications
Nanosensors for Diagnosis and Screening
Nanotechnology for Environmental Concerns
Nanomaterials for Food Packaging
Nanomaterials for Energy Harvesting and Storage



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www.science.cmu.ac.th



**Doctor of Philosophy Program in Nanoscience and Nanotechnology
(International Program/Interdisciplinary)**

Type 1.1 : Student with Master's Degree

Total credit **48 credits**

A. Thesis

228898 Doctoral Thesis 48 credits

B. Academic activities

1. A student has to present a seminar on the topic related to his/her thesis once every semester for at least 3 semesters and students have to attend seminar every semester that the course is offered until graduation.
2. A student must present at least one oral presentation on the topic related to his/her thesis at international conference(s).
3. The whole or part of a thesis must be
 - 3.1 At least 2 dissertation work or a part of dissertation work must be published or at least accepted to publish in an international journal listed in ISI, Scopus, Pubmed or Web of Science databases with the student as the first author at least 1 paper **and** the thesis publications must have the affiliation of Ph.D. Program in Nanoscience and Nanotechnology (International Program/Interdisciplinary), Faculty of Science, Chiang Mai University **or**
 - 3.2 At least 1 dissertation work or a part of dissertation work must be published or at least accepted to publish in an international journal listed in ISI, Scopus, PubMed or Web of Science databases with the student as the first author **and** a patent or a petty patent which is already granted which this work is obviously different from the published paper **and** the thesis publications must have the affiliation of Ph.D. Program in Nanoscience and Nanotechnology (International Program/Interdisciplinary), Faculty of Science, Chiang Mai University
4. A student has to report thesis progression to the Graduate School every semester, for approval by the Chairman of the Graduate Study Committee.

C. Non-credit Courses

1. Graduate School requirement - a foreign language
2. Program's requirement: - A student who is deficient in basic background must register courses recommended by the graduate program administrative committee.

D. Qualifying Examination

- 1) A student must complete a qualifying examination to evaluate his/her ability before presenting a thesis proposal.
- 2) An unsuccessful examinee may take a re-examination within the following regular semester.

Type 1.2 : Student with Bachelor's Degree

Total credit 72 credits

A. Thesis

228897 Doctoral Thesis 72 credits

B. Academic activities

1. A student has to present a seminar on the topic related to his/her thesis once every semester for at least 3 semesters and students have to attend seminar every semester that the course is offered until graduation.
2. A student must present at least one oral presentation on the topic related to his/her thesis at international conference (s).
3. The whole or part of a thesis must be
 - 3.1 At least 3 dissertation work or a part of dissertation work must be published or at least accepted to publish in an international journal listed in ISI, Scopus, Pubmed or Web of Science databases with the student as the first author at least 2 paper **and** the thesis publications must have the affiliation of Ph.D. Program in Nanoscience and Nanotechnology (International Program/Interdisciplinary), Faculty of Science, Chiang Mai University **or**
 - 3.2 At least 2 dissertation work or a part of dissertation work must be published or at least accepted to publish in an international journal listed in ISI, Scopus, PubMed or Web of Science databases with the student as the first author **and** a patent or a petty patent which is already granted which this work is obviously different from the published paper **and** the thesis publications must have the affiliation of Ph.D. Program in Nanoscience and Nanotechnology (International Program/Interdisciplinary), Faculty of Science, Chiang Mai University
4. A student has to report thesis progression to the Graduate School every semester, for approval by the Chairman of the Graduate Study Committee.

C. Non-credit Courses

1. Graduate School requirement - a foreign language
2. Program's requirement: - A student who is deficient in basic background must register courses recommended by the graduate program administrative committee.

D. Qualifying Examination

- 1) A student must complete a qualifying examination to evaluate his/her ability before presenting a thesis proposal.
- 2) An unsuccessful examinee may take a re-examination within the following regular semester.