

# NATIONAL SUN YAT-SEN UNIVERSITY

## Department of Computer Science and Engineering

### Regulations of Qualification Examinations for Master's Degree Students

Applicable to Students Starting Since Academic Year 2020

Amended by Department General Meeting on Jan. 8, 2003.

Amended and approved by the College of Engineering General Meeting on Mar. 25, 2003.

Amended by Department General Meeting on May 4, 2005.

Amended and approved by the College of Engineering General Meeting on June 29, 2006.

Amended by Department General Meeting on Oct. 27, 2010.

Amended and approved by the College of Engineering General Meeting on Dec. 15, 2010.

Amended by Department General Meeting on Feb. 15, 2012.

Amended by Department General Meeting on Mar. 14, 2012.

Amended and approved by the College of Engineering General Meeting on Mar. 28, 2012.

Amended by Department General Meeting on Apr. 18, 2014.

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Amended and approved by the College of Engineering General Meeting on Jun. 13, 2014.

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Amended by Department General Meeting on Aug. 23, 2019.

Amended and approved by the College of Engineering General Meeting on Aug. 27, 2019.

Amended by Department General Meeting on May 8, 2020.

Amended and approved by the College of Engineering General Meeting on May 25, 2020.

- I. This set of regulations is issued based on the “Ministry of the Education Degree Conferral Law and its enforcement rules,” “Academic Regulations” of National Sun Yat-sen University (Hereafter referred as NSYSU), and “NSYSU Implementation bylaws for Ph.D. and Master Degree Examination.”
- II. Relevant items during study periods:
  - A. Degree studying periods: one to four years in accordance with regulations of the Ministry of Education (excluding periods of retainment of student status and suspensions).
  - B. The minimal credits required for graduation: 28 credits (including those of compulsory courses).
  - C. Crediting and Curriculum Requirements:
    1. Common compulsory courses: Seminar ( I ) ~Seminar ( IV )
    2. Professional compulsory courses:
      - a. Master degree in Computer Science and Engineering: each student is required to complete and pass two of the following professional courses: Very-large-scale Integration Designs, Computer Architectures, Advanced Computer Networks, Design and Analysis of Algorithms, Advanced Operating Systems, and etc.
      - b. Master degree in Information Security: each student is required to complete and pass one of the following fundamental professional compulsory courses: Computer Architectures, Advanced Computer Networks, Design and Analysis of Algorithms, and Advanced Operating Systems; each student is required to complete and pass three core compulsory courses: Secure Cryptographic

Protocols, Digital Signature Schemes and Applications, Cryptography, Secure Programming, Hack Technology and Computer Forensic, Network Security and etc.

3. A maximum of 6 credits of projects or research project courses may be accounted for graduating credits.
  4. A maximum of 3 credits of English courses of the department may be accounted for graduating credits.
  5. Master's students must meet English proficiency requirements listed as follows prior to graduation application:
    - A. Students who meet one of the following test/exam standards with test/exam dates no earlier than two years prior to enrollment one:
      - a. A TOEIC score of 600 or above;
      - b. Passing listening and reading tests of GEPT high-intermediate level or above;
      - c. A TOFEL ITP score of 500 or above;
      - d. A TOFEL-iBT score of 61 or above;
      - e. An IELTS band score of 5 or above.
    - B. For students who study and pass English or relevant courses assigned by the Department Curriculum Committee, credits of English or relevant courses used for graduating requirements may not be accounted for graduating credits.
  6. Oral examinations may only be applied when grades of English courses meet the requirements of master's degree graduating students of the department.
- D. Selection of Advisors:
1. In general, master's degree students shall choose full-time faculty members with positions of assistant professors or above of the department as advisors.
  2. In cases of specific circumstances, a student may choose an advisor from another department with the condition of one full-time faculty member of the department with a position of assistant professor or above being the co- advisor. Should a student require a co-advisor from another department, a written report shall be submitted to the department after the advisor has agreed with co-supervision.
  3. In cases of specific circumstances which students require to change their advisors, agreement from the original advisor shall be obtained and approved by the review of the department's Academic Affairs Committee. Degree thesis examinations may only be applied one year after change of advisors is made.

### III. Master's degree examinations:

Definition of semester: the first semester is from August 1 and ends on January 31 of the year after; the second semester is from February 1 and ends on July 31 each year.

#### A. Thesis review:

Prior to master's degree oral examinations, students shall submit a thesis review

report and pass the following thesis review procedures:

1. Report contents shall include research title, purpose, relevant discussions, goals, methods and processes, research outcomes, research contributions, references, etc.
2. Advisors shall convene review committees for each submitted report. Each review committee shall consist of three to five faculty members of the department or of other departments or universities. Review committee shall approve or disapprove applicants based on their written reports. When necessary, review committee may ask applicants to deliver oral reports. During review process, approval may only be finalized when two-thirds of or more review committee agree with assessment result as "Pass."
3. Graduating students of the year are required to pass the thesis review by March 31 each year, otherwise, the day for oral examinations will be postponed to at least one semester later. Students with delayed graduations are required to pass the thesis review at least one month prior to thesis oral examinations.

B. Degree thesis oral examinations:

1. A degree examination committee shall consist of three to five committee members with at least one member from other departments in general.
2. Students who fail to pass degree examinations (oral examinations) with unfinished study periods may attend the oral examinations again next semester or next academic year. Each student may only be re-examined once. Students who fail re-examinations will face withdrawal from the university.

IV. Graduation: students who meet each items of the requirements listed above in this set of regulations may apply for graduation.

V. This set of regulations shall be implemented following approvals of department general meetings and college general meetings, as well as the authorization of the president. The same procedure shall be carried out when amendments are to be made.