Qualifying Examination Regulations (amended on Oct. 27, 2010)
Department of Electronic Engineering
National Taiwan University of Science and Technology

A. General rules and regulations
1. The qualifying examination contains areas in three major fields, “computer engineering”, “electronic systems” and “optoelectronics and semiconductors”. The detailed areas for each field are
   (1) Computer engineering: operating systems, computer architecture, and computer algorithms.
   (2) Electronic systems: communication systems, communication networks, electromagnetics, electronic circuits, signal processing, power electronics, and control systems.
   (3) Optoelectronics and semiconductors: solid state electronics, semiconductor devices, photonics, optoelectronic semiconductors, and Fourier optics.

2. Students are required to pass the qualifying examination in the first academic year of their enrollment to the Ph.D. program of the Department of Electronic Engineering. The qualifying examination is a written examination. Students are required to take examinations in two areas, and at least one of the areas has to come from the student’s major field.

3. Students are required to take both areas at the same time. Students may sit for the qualifying examination a maximum of two times. However, students must choose the same areas for both attempts.

4. Students who fail to pass the qualifying examination in their second attempt may appeal to the examination committee by submitting an accepted SCI journal paper within the second year of their enrollment to the Ph.D. program of the university. The committee may decide whether the SCI paper can serve as the substitution of the qualifying examination. The students have to be the first author of the paper other than their thesis advisor, and the paper has to be submitted after their Ph.D. enrollment.

5. Students who fail to pass the qualifying examination within two years of enrollment will be expelled from the graduate program.

6. The required topics and typical references for each area will be announced every September.

7. The qualifying examination is offered every semester. The exact date and time will be announced before the examination.
B. Examination regulations
   1. The department will appoint two faculty members as the examination subcommittee for each area. The subcommittee members are responsible for questioning and grading.
   2. The examination time for each area is 180 minutes.

C. Grading regulations
   1. Each student will be judged by the numeric average of the two taken areas. Students with an average of 70 points or more pass the qualifying examination. Students with an average of less than 50 points fail. For students with an average of 50 to 70, their pass will be decided by secret ballot cast by the committee members.
   2. The committee for each student includes the examination subcommittee members of the taken areas and several faculty members from related fields. The thesis advisor of the student can not serve as a committee member; however, she or he may attend the committee meeting to describe the situation of the student.

D. Other related issues can be found in the “Qualifying Examination Regulations” announced by the university.

E. These regulations have been decreed by the department meeting.