Rules of the qualification review in the Institute of Electronics Engineering, National Tsing Hua University

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Revised on September 13, 2010
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Revised on May 1, 2019
Revised on May 2, 2024
Revised on November 5, 2026

A. The rules are set according to the regulations of qualification examination in the "Procedures for Ph.D. Degree Examinations" of National Tsing Hua University.

B. The qualification is processed by reviewing the score of the courses taken by the Ph.D. students. The Ph.D. students are required to take one course from each of the three different subject areas listed in Item C.1 and regarded as qualified if the three courses meet the requirement of C.2.

C. Ph.D. students are required to apply for a waiver of qualification examinations based on the courses offered by National Tsing Hua University. The details about applying for a waiver are:

C. 1 Subject areas and courses that can be waived:

a) Power Electronics: EE5850 Switching Mode Power Converters
b) Solid State Physics: ENE5110 Solid State Physics, ENE5125 (former ENE 6130) Semiconductor Physics, PHYS5730 Semiconductor Physics, ENE5130 Quantum Mechanics, or PHYS5410 Quantum Mechanics (I)
c) Semiconductor Device: ENE5330 Semiconductor Devices for Integrated Circuits or ENE5355 Design of Semiconductor Devices
d) Photonics: IPT5140 Photonics(I) or IPT5141 Photonics(II)
e) Electromagnetics: PHYS5310 Electrodynamics(I) or PHYS5320 Electrodynamics(II)

f) VLSI Design: EE5250 VLSI Design, EE5280 RF IC Design, ENE5210/EE5230 Analog Circuit Design, ENE5220 Digital Integrated Circuits, or ENE5250 Analysis and Design of Microwave Circuits
g) Microelectronic Engineering: ENE5310 Silicon Processing Technology for Microelectronics, CSR5403 Semiconductor Lithography or CSR5416 Advanced Semiconductor Process Technology
h) Other relevant courses applied for the waiver are required to be evaluated by the ENE faculty committee meeting.

C.2 The Ph.D. student must have a score higher than level B and is ranked within the top 40% of the class with at least 4 students.

C.3 The qualification will be reviewed in the first month of each new semester. Courses taken in the 6^{th} semester for qualification reviewing should be submitted no later than 2 weeks of the grade announcement.

D. The regulations are activated by the Institutional Affair Meeting, so are the revisions of regulations.

(These regulations are adopted in Chinese, which shall prevail in case of any discrepancy between the English translation and the Chinese original.)