

NATIONAL SUN YAT-SEN UNIVERSITY

Table of Compulsory Courses

(Applicable for Students Starting in School Year 103)

Department/Institute: Doctoral Program, Department of Electrical Engineering

| Course Type | | Course Title | I | | | II | | | III | | | IV | | | Group | | |
|---|------------------------------------|---|------------------------------|--------|--------|------|--------|--------|------|--------|--------|------|--------|--------|------------|----------------------|-------------------------|
| | | | Fall | Spring | Summer | Fall | Spring | Summer | Fall | Spring | Summer | Fall | Spring | Summer | Group Code | Total No. of Courses | No. of Required Courses |
| Professional Compulsory | General Compulsory (Core Programs) | Seminar | 1 | 1 | | | | | | | | | | | | | |
| Minimum Credits Required for Graduation | | 18 | Compulsory Courses Weighting | | | 0% | | | | | | | | | | | |
| Education Objectives | | <p>The department aims to cultivate professional electrical engineering personnel with expertise in theory and practice. The focuses of the department are as follows:</p> <ol style="list-style-type: none"> 1. Knowledge and Theory: Providing theories and knowledge on electrical engineering to students through prospective professional courses. 2. Professional Technology: Cultivating students' attainments and techniques on electrical engineering practices/applications through special topic courses, research projects participation, and thesis writing. | | | | | | | | | | | | | | | |

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| | <ol style="list-style-type: none"> 3. Teamwork Spirit and Engineering Ethics: Enabling students to value teamwork and academic ethics when conducting research as well as to acquire leadership skills through seminars and independent studies in collaborations with research supervisors. 4. Independent Thinking, Research, and Innovation: Inspiring students' potentials while cultivating their abilities for independent thinking and research innovations through various advance courses and independent studies. 5. International Perspective and Competitiveness: Broadening students' worldview and enhancing their international perspectives by initiating or participating in various academic activities such as student exchange programs, visiting professor programs, English courses, and international conferences. |
| Professional Competencies of the Students | <p>In accordance with education objectives of the department, all students shall obtain the following core competencies:</p> <ol style="list-style-type: none"> 1. Having the ability to incorporate and analyze prospective professional theories on electrical engineering. 2. Having the ability to conduct R&D and solve problems with advanced electrical engineering professional technologies. 3. Having the spirit of teamwork as well as leadership skills complaint with professional ethics. 4. Having the ability to integrate collective intelligence and discover/enhance self-potential so as to acquire multiple capabilities including independent thinking, research, and innovation. 5. Having the ability to acquire cutting-edge knowledge regarding electrical engineering and comply with international development trend so as to become competitive on a global scale. |
| Course Regulations | <ol style="list-style-type: none"> 1. As regulated by the department/institute, all students shall take the required courses, obtain sufficient credits, and pass all assessments so as to be eligible for graduation. 2. Minimum credits required for graduation: <ul style="list-style-type: none"> 18 (for general students) 42 (for students eligible for direct entry to doctoral degree program) <p>The two (2) credits for seminar courses are not included in the minimum credit regulations stated above.</p> |

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| | <p>3. Students shall obtain no more than six (6) credits by attending the elective courses (course title starts with “Special Topics in”) provided by the institute. The credits aforementioned are included in the minimum credits required for graduation.</p> |
| <p>Number of Approvals by the University Course Committee Meeting</p> | <p>Number of Approvals by the Academic Affairs Meeting</p> |