

Major Programme: Master of Philosophy in Microelectronics ☐ L&S – Languages and Skills CM – Compulsory Major \square MI – Minor Course Type: ☐ CPE – Community and Peer Education ☐ FE – Free Elective RE – Required Elective Course Title: Suggested Thesis 論文 Year 2 (in Chinese and English) Year of Study: ✓ 4-Semester Course Yearly Course Credit Units: 12 Duration: Pre-requisite: P/NP None Grading System: Letter Grade (if any) **English** Medium of Instruction: An independent and original research study under the supervision of a faculty staff member. An academic thesis is a scholarly written document of original research on a particular topic consistent with every detail Course Description: of the research methodology. The study could result in a technical publication or a presentation at a professional meeting. This course enables students to have: • Apply knowledge and recognize specialist topics in microelectronics research. **Intended Learning** • Design the integrated circuits and conduct research. · Create innovative circuit and system techniques in the development of microelectronic integrated Outcomes (ILO): · Use computer-aided design and analysis techniques appropriate to microelectronics engineering Case Study Role Playing Group discussions Service learning Reading & Writing Assessments / tests Group project / pape: Internship Field study Company visits Listening & Oral Student Presentation project / paper Individual Writing Assignment Exercises & problems Major Assessment Methods: Class Participation / Discussion % Assignment(s) Test(s) % Examination Others: Project 100 The course requires the student to perform an original research study under the supervision of a faculty staff member. An academic thesis is a scholarly written document of original research on a particular topic consistent with every detail of the research methodology. The supervisor is Course Content: required to guide the process of the thesis research development by having regular meetings with (topic outline) the students. Finally, an oral defense will be held under the evaluation of an oral defense examination committee.

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