

Minor Changes to the Curriculum of BEng in EIE (42070) Programme

The Department reviews the curricula of academic programmes regularly to ensure they are up-to-date and relevant to the professions. In a recent review of the curriculum of the 3-year BEng in EIE (42070) programme, the following revisions have been made:

1. Removed “EIE401 VLSI and Computer-Aided Circuit Design”, and Added “EIE4110 Introduction to VLSI and Computer-Aided Circuit Design” and “EIE4111 Advanced VLSI and Computer-Aided Circuit Design”

We wish to modernize and strengthen the content of the elective subject “EIE401 VLSI and Computer-Aided Circuit Design” by introducing new topics such as high-level synthesis, VLSI Power and Thermal Considerations, Design for Test (DFT), Simulation models, Design Space Exploration and System C, etc.

Since the content has been significantly intensified, the old subject “EIE401 VLSI and Computer-Aided Circuit Design” has been split into two new subjects “EIE4110 Introduction to VLSI and Computer-Aided Circuit Design” and “EIE4111 Advanced VLSI and Computer-Aided Circuit Design”. EIE4110 aims at enabling students to understand the fundamentals of VLSI circuits and systems based on silicon, to acquire hands-on experience on VLSI design, and arousing their awareness of the different facets of VLSI design by using CAD tool. EIE4111 has been designed with the objectives of deepening students’ abilities in VLSI circuits and system design, raising students’ awareness of the different System-Level VLSI design techniques by using CAD tools, and allowing them to gain hands-on experience on VLSI design. In this connection, EIE401 has been removed from the curriculum.

2. Removed “EIE424 Distributed Systems and Network Programming”, and Added “EIE4108 Distributed Systems and Cloud Computing”

We would like to modernize the elective subject “EIE424 Distributed Systems and Network Programming” (Appendix IV) to include popular topics on cloud computing. The modernized subject aims at enabling students to master the development skills for providing and constructing distributed services on the Web and cloud. Through a series of lab exercises, students will be able to develop interoperable and distributed Web and cloud applications.

Since a substantial portion of the modernized subject is related to cloud computing, the old subject “EIE424 Distributed Systems and Network Programming” has been removed and a new subject “EIE4108 Distributed Systems and Cloud Computing” has been added to the programme.

The above revisions are effective from 2013/14 Semester 1 and applicable to all cohorts of intake to the 3-year BEng in EIE (42070) programme.

For easy reference in the future, students are strongly advised to update your own Programme Booklet by enclosing the attached syllabus to your own Booklet.