

Guidelines for Students Enrolling in the Non-Degree Conferring Program in Embedded Systems

Approved by the Department of Electrical Engineering Curriculum Committee on March 26, 2007
Approved by the College of Electrical Engineering and Computer Science Curriculum Committee
on April 16, 2007

Approved by the University Curriculum Committee on May 31, 2007
Approved by a meeting of the Academic Affairs Committee on June 11, 2007

1. This program is designed to help meet the country's pressing need for mobile systems embedded with complex computation functions, which, in light of the growing demand for PC portability, is certain to become the most competitive technology for the next generation of computer product development engineers. Given the local shortage of professionals in this area, the Non-Degree Conferring Program in Embedded Systems' cultivation of embedded systems researchers should help to increase the country's industrial competitiveness.
2. Students studying in any college or department in the University may apply for entry into this program.
3. University students who comply with these guidelines and earn the necessary credit hours (21 or more) shall have the name of the program as well as the number of credit hours earned clearly indicated on their transcript and shall also be awarded a certificate of completion.
4. The course requirements for this program are as follows:

Course Type	Course Title	Course Credits	Course Codes	Remarks
Basic Course	Microcomputers	3	CE3046 , EE3002 , CO3006	At least two courses.
	Introduction to Digital Systems	3	CE2008 , EE2016 , CO1002	
	Electrical Experiment I	1	EE2005	
	Electrical Experiment II	1	EE2013	
	Computer Organization	3	CE3001	
	Computer Network	3	CE3007	
Essio Cour	Operating System	3	CE3002	least two cour
	Computer Architecture	3	CE3042	

	Network Programming	3	CE7016	
	Embedded System Design	3	CE5045	
	Advanced Digital System Design with FPGA Laboratories	3	CO6035	
	Digital System Design	3	EE4022	
Applied Courses	Mobile Computing	3	CE5014	At least two courses.
	Linux Operating System	3	CE6105	
	User Interface Design, Prototype, Evaluation	3	CE7059	
	Introduction to Electronic Design Automation	3	EE4026	
	DSP VLSI Architecture Design	3	EE5011	
	Design and Verification Methodology for Soc	3	EE5013	
	Educational Toys and Robots	3	EE5017	
	Multimedia Communication IP Design	3	EE8015	
	Audio-Visual Signal Processing	3	CO3011	

5. Whether courses with similar titles and content taken in other University programs can be accepted in lieu of courses offered by this program shall be left to the discretion of the History Department; a maximum of six credit hours may be waived.
6. These guidelines shall be implemented and entered into force upon approval by a meeting of the Academic Affairs Committee. The same procedure applies to any amendment of these guidelines.