IIT Hyderabad Study-abroad Program

EE 360: Special Problems in Electrical Engineering

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Summer 2014

General Information

EE360: Class Time	Meets two days a week (MF) for 5 hours each	
Demo Time	One demo every two weeks to show progress of the work done as a part of the industry project or research lab work.	
Classroom	<u>LH-2</u>	
Office	<u>TBA</u>	
Contact	ramesh@mail.utexas.edu	
Pre-requisites	None	
Office Hrs	Instructor: Tue, Wed and Thu from 1-2pm	
Website	http://users.ece.utexas.edu/~ryerraballi/sa2014/	

Catalog Description

EE360: Special Problems in Electrical Engineering approved by the department.

Overview

This course involves one of two possible otptions: (i) Work on a Industry sponsored project at the IIT campus with reports/demos made to the company, (ii) Work at a research lab at the IIT campus directed by a Faculty and other Graduate students.

Schedule

The detailed schedule of activities for the class are given in the calendar

Grading Criteria

Task	Date	Percentage
Weekly Reports (10)	Due online every Friday (5% each report)	50%
Project Completion	9 th week	10%
Project Demo and Presentation	10 th week	15%
Final Report	10 th week	25%

Companies

• Xilinx, Broadcom, 8C Healthcare and Ineda Systems.

Research Projects

- 1. Xilinx: Matlab Smulation of a Wireless Base Station frontend module
- 2. Xilinx: Portable Calendar Viewer on a Zedboard with pMod OLED, pMod Wifi/BT
- 3. Xilinx: PCIe based secondary boot loader
- 4. Broadcom: uBoot Linux boot loader with integrity check on a Raspberry Pi.
- 5. Broadcom: Packet capture and analysis using a Raspberry Pi.
- 6. Ineda Systems: Sensitivity study of an Infra-red technology based Heart-Rate Monitor.
- 7. 8C Healthcare: Medical device.