

COLLEGE OF ENGINEERING

**BACHELOR OF SCIENCE IN COMPUTER ENGINEERING (BSCpE)
School Year 2012-2013**

THIRD YEAR

First Semester

Subject Code	Description	Hrs Lec	Hrs Lab	Units Credit	Pre-requisites
CpE 312 Lec	Computer Programming 1	2	0	2	CpE 221 Lec/Lab
CpE 312 Lab	Computer Programming 1 Lab	0	3	1	CpE 221 Lec/Lab
CpE 313	Computer Networks	3	3	4	-
Eco 1	Basic Economics with TLR	3	0	3	-
Math 6	Differential Equations	3	0	3	Math 5B
EE 311 Lec	Circuits 1	3	0	3	Phys 2A Lec/Lab
EE 311 Lab	Circuits 1 Lab	0	3	1	Phys 2A Lec/Lab
Mech 311S	Statics of Rigid Bodies	3	0	3	Phys 1A Lec/Lab
SFT MGMT	Safety Management	1	0	1	-
TOTAL				21	

Second Semester

Subject Code	Description	Hrs Lec	Hrs Lab	Units Credit	Pre-requisites
CpE 324	CpE Elective 1	2	3	3	CpE 313
CpE 325 Lec	Data Structure and Algorithm Analysis	3	0	3	CpE 211 Lec/Lab & CpE 312 Lec/Lab
CpE 325 Lab	Data Structure and Algorithm Analysis Lab	0	3	1	CpE 211 Lec/Lab & CpE 312 Lec/Lab
Math 8	Advanced Engineering Mathematics for CpE	3	0	3	Math 6
Mech 322D	Dynamics of Rigid Bodies	2	0	2	Mech 311S
Mech 323	Mechanics of Deformable Bodies	3	0	3	Mech 311S
EE 322 Lec	Circuits 2	3	0	3	EE 311 Lec/Lab
EE 322 Lab	Circuits 2 Lab	0	3	1	EE 311 Lec/Lab
ECE 321 Lec	Electronic Devices and Circuits	3	0	3	EE 311 Lec/Lab
ECE 321 Lab	Electronic Devices and Circuits Lab	0	3	1	EE 311 Lec/Lab
CpE CAD	Computer Engineering Drafting and Design	0	3	1	Draw 224
TOTAL				24	

FOURTH YEAR

First Semester

Subject Code	Description	Hrs Lec	Hrs Lab	Units Credit	Pre-requisites
CpE 416	CpE Elective 2	2	3	3	CpE 324
ECE 412 Lec	Electronic Circuits Analysis and Design	3	0	3	ECE 321 Lec/Lab
ECE 412 Lab	Electronic Circuits Analysis and Design Lab	0	3	1	ECE 321 Lec/Lab
EEco	Engineering Economy	3	0	3	-
CpE 417	Computer Hardware Fundamentals	0	3	1	-
CpE 418 Lec	Digital Signal Processing	3	0	3	Math 8
CpE 418 Lab	Digital Signal Processing Lab	0	3	1	Math 8
CpE 419 Lec	Logic circuits and Switching Theory	3	0	3	ECE 321 Lec/Lab
CpE 419 Lab	Logic circuits and Switching Theory Lab	0	3	1	ECE 321 Lec/Lab
Math 9	Discrete Math	3	0	3	Math 1 Engg Math 2 Engg
CpE 415	CpE Elective 3	3	0	3	
TOTAL				25	

Name: _____

Course: _____

Yr./Section: _____

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Second Semester

Subject Code	Description	Hrs Lec	Hrs Lab	Units Credit	Pre-requisites
CpE 4210 Lec	Computer System Organization with Assembly Language	3	0	3	CpE 325 Lec/Lab
CpE 4210 Lab	Computer System Organization with Assembly Language Lab	0	3	1	CpE 325 Lec/Lab
ECE 424 Lec	Control Systems	3	0	3	ECE 412 Lec/Lab
ECE 424 Lab	Control Systems Lab	0	3	1	ECE 412 Lec/Lab
CpE 4211	CpE Elective 4	2	3	3	CpE 416
Emgt	Engineering Management	3	0	3	EEco
CpE 4212 Lec	Advanced Logic Circuits Design	3	0	3	CpE 419 Lec/Lab
CpE 4212 Lab	Advanced Logic Circuits Design Lab	0	3	1	CpE 419 Lec/Lab
CpE Ethics	Engineering Ethics and Computer Laws	2	0	2	-
ECE 425	Principles of Communications	3	0	3	ECE 412 Lec/Lab
TOTAL				23	

Summer

Subject Code	Description	Hrs Lec	Hrs Lab	Units Credit	Pre-requisites
CpE 5113 Lec	Computer System Architecture	3	0	3	CpE 4210 Lec/Lab
CpE 5113 Lab	Computer System Architecture Lab	0	3	1	CpE 4210 Lec/Lab
CpE 5114 Lec	Microprocessor System	3	0	3	CpE 419 Lec/Lab & CpE 4210 Lec/Lab
CpE 5114 Lab	Microprocessor System Lab	0	3	1	CpE 419 Lec/Lab & CpE 4210 Lec/Lab
CpE 5116	Design Project 1 (Methods of Research)	2	0	2	-
TOTAL				10	

FIFTH YEAR

First Semester

Subject Code	Description	Hrs Lec	Hrs Lab	Units Credit	Pre-requisites
OJT	On-The-Job Training	0	600	3	-
TOTAL				3	

Second Semester

Subject Code	Description	Hrs Lec	Hrs Lab	Units Credit	Pre-requisites
CpE 5115 Lec	Operating Systems	3	0	3	CpE 4210 Lec/Lab
CpE 5115 Lab	Operating Systems Lab	0	3	1	CpE 4210 Lec/Lab
ECE 516	Data Communications	3	0	3	ECE 425
CpE 5117 Lec	Object Oriented Programming	2	0	2	CpE 325 lec/lab
CpE 5117 Lab	Object Oriented Programming Lab	0	3	1	CpE 325 lec/lab
CpE 5218	Design Project 2 (Project Implementation)	0	6	2	CpE 5116
CpE 5219 Lec	System Analysis and Design	2	0	2	CpE 325 Lec/Lab
CpE 5219 Lab	System Analysis and Design Lab	0	3	1	CpE 5117 Lec/Lab
CpE 5220	Entrepreneurship	3	0	3	-
CpE 5221	Software Engineering	3	0	3	CpE 325 Lec/Lab
CpE 5222	Seminars and Field Trips	0	3	1	-
TOTAL				22	

CpE Electives:

1. On- line Technology 1
2. On- line Technology 2
3. Management and Information System
4. Emerging Technology