COMSATS Institute of Information Technology
Registrar Office, Principal Seat, Islamabad
***

No: CIIT-Reg/Notif-72/11/705

March 18, 2011

NOTIFICATION

On the recommendations of the Board of Studies for Electrical Engineering in its 13th meeting held on October, 26, 2010, the Board of Faculty of Engineering in its 10th meeting held on December, 14, 2010 approved the following Scheme of Studies for Bachelor of Science in Electrical (Computer) Engineering, BS (ECE) effective from Fall 2009.

This supersedes Notification No. CIIT-Dir(Acad)/Notif-118 dated September 15, 2009.

Scheme of Studies

| 8 Semesters |
| 134-137 Credit Hours |

Year 1, Semester 1

Course Code	Course Title	Credit Hours[1]	Prerequisite(s)†
HUM100	English Comprehension and Composition	3(3, 0)	
HUM110	Islamic Studies	3(3, 0)	
PHY121	Applied Physics for Engineers	4(3, 1)	
MTH101	Calculus I	3(3, 0)	
EEE113	Engineering Drawing	1(0, 1)	
EEE112	Engineering Mechanics and Thermodynamics	3(3, 0)	
	Total	17(15, 2)	

Semester 2

Course Code	Course Title	Credit Hours[1]	Prerequisite(s)†
HUM111	Pakistan Studies	3(3, 0)	
MTH102	Calculus II	3(3, 0)	
MTH231	Linear Algebra	3(3, 0)	MTH101
CSC141	Introduction to Computer Programming	4(3, 1)	
EEE121	Electric Circuits Analysis – I	4(3, 1)	MTH101, PHY121
	Total	17(15, 2)	

Year 2, Semester 3

Course Code	Course Title	Credit Hours[1]	Prerequisite(s)†
MTH203	Calculus III	3(3, 0)	MTH102
MTH242	Differential Equations	3(3, 0)	MTH102
EEE241	Digital Logic Design	4(3, 1)	
EEE231	Electronics – I	4(3, 1)	EEE121
CSC241	Object Oriented Programming	4(3, 1)	CSC141
	Total	18(15, 3)	

Contd....

Semester 4

Course Code	Course Title	Credit Hours[1]	Prerequisite(s)†
MTH263	Probability Theory and Random Variables	3(3, 0)	
EEE261	Electromagnetic Theory	3(3, 0)	MTH203
EEE222	Electric Circuits Analysis – II	3(3, 0)	MTH242, EEE121
EEE223	Signals and Systems	4(3, 1)	MTH242
EEE375	Power Distribution and Utilization	3(3, 0)	
	Total	16(15, 1)	

Year 3, Semester 5

Course Code	Course Title	Credit Hours[1]	Prerequisite(s)†
EEE232	Electronics – II	4(3, 1)	EEE222, EEE231
EEE371	Electric Machines	4(3, 1)	EEE222, EEE261
EEE343	Computer Organization	4(3, 1)	EEE241
EEE324	Digital Signal Processing	4(3, 1)	EEE223
EEE351	Principles of Communication Systems	4(3, 1)	EEE223
	Total	20(15, 5)	

Semester 6

Course Code	Course Title	Credit Hours[1]	Prerequisite(s)†
ECO300	Engineering Economics	3(3, 0)	
EEE325	Control Systems	4(3, 1)	EEE223, EEE232
EEE342	Microprocessor Systems and Interfacing	4(3, 1)	EEE241
EEE314	Data Communication and Computer Networks	4(3, 1)	
CSC322	Operating Systems Concepts	3(3, 0)	CSC141
	Total	18(15, 3)	

Year 4, Semester 7

Course Code	Course Title	Credit Hours[1]	Prerequisite(s)†
HUM102	Report Writing Skills	3(3, 0)	HUM100
	Major/Specialization Elective I*	3(3, 0)/4(3, 1)	
	Non-Engineering Elective	3(3, 0)	
EEE490	Final Year Project (Part-I)	1(0, 1)	
CSC112	Algorithms and Data Structures	4(3, 1)	CSC141
	Total	14-15(12, 2-3)	

Semester 8

Course Code	Course Title	Credit Hours[1]	Prerequisite(s)†
MGT462	Project Planning and Management	3(3, 0)	
	Major/Specialization Elective II	3(3, 0)/4(3, 1)	
	EE Open/Free Elective**	3(3, 0)/4(3, 1)	
EEE490	Final Year Project (Part-II)	5(0, 5)	
	Total	14-16(9, 5-7)	

Grand Total: 134-137 Credit Hours

Bachelor of Science in Electrical Engineering (BSEE) with Major in Computer Technical Electives***

Course Code	Course Title	Credit Hours[1]	Prerequisite(s)†
CSC421	Systems Programming	4(3, 1)	CSC322,CSC141
CSC341	Network Programming	4(3, 1)	EEE314,CSC141
EEE434	VLSI Design	4(3, 1)	EEE241,EEE232
EEE440	Computer Architecture	3(3, 0)	EEE343
EEE446	Real Time Embedded Systems	4(3, 1)	EEE342
EEE415	Digital Image Processing	4(3, 1)	MTH231,EEE223
CSC271	Database Systems	4(3, 1)	CSC112
CSC334	Distributed Computing	4(3, 1)	EEE314,CSC141
CSC492	Software Engineering	3(3, 0)	
CSC462	Artificial Intelligence	3(2, 1)	CSC141
CSC336	Web Engineering	4(3, 1)	CSC141
EEE447	Robotics	3(3, 0)	EEE446,CSC462
EEE344	Digital System Design	4(3, 1)	EEE241,CSC141
EEE464	Wireless Communication Systems	3(3, 0)	EEE351

[1] 3 credit hours of theory is equivalent to 3 hours of lectures whereas 1 credit hour of lab is equivalent to 3 hours of lab session. All the lab sessions are graded. Students have to pass both theory and lab to earn the course credits.

† Courses with prerequisites can only be allowed if all prerequisite courses have been passed.

* With the consent of Academic Advisor, Project Supervisor & Course Instructor, the students can select an elective course in their area of specialization according to their aptitudes and requirements of the final year project.

** With the consent of Academic Advisor, Project Supervisor & Course Instructor, the students can take any course of EE which he/she has not taken before (including the electives of TE, EPE, CE, EL) according to his/her aptitude/future plans and further requirement (if any) of his/her final year project.

*** The list of Electives may be revised from time to time and will be offered by the department subject to the availability of the faculty.

Niaz Ahmed Khaskheli
Additional Registrar

Distribution:

1. Dean Faculty of Engineering, CIIT
2. All Campus Directors, CIIT
3. Chairman, Department of Electrical Engineering, CIIT
4. All HoD's/Incharges, Department of Electrical Engineering, CIIT Campuses.
5. All Incharges Examination Departments, CIIT
6. Controller of Examinations, CIIT.
7. Director P, D & HRD, CIIT
8. Additional Registrar (Academics), CIIT Islamabad Campus

CC:

1. Registrar CIIT
2. PS to Rector.