



COMSATS Institute of Information Technology (CIIT)

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BCE SoS + BTE SoS
BTE BCE

No. CIIT- Reg/Notif/ O I /2011/ OI

January 27, 2011

Notification

The Board of Faculty of Engineering in its 9th meeting held on August 02, 2010 approved the SoS of Fall 2006, Spring 2007 and Fall 2007, Spring 2008, Fall 2008, Spring 2009, Fall 2009 and Spring 2010 of EE Department for all CIIT Campuses (Annexure-IX) on Page No. 196 of minutes circulated vide letter No. CIIT/AR/DoA/-10/496 dated 17/9/2010.

This supersedes Notification No. CIIT/Reg/AR/2011/586 dated November 26, 2010.

(Niaz Ahmed Khaskheli)
Additional Registrar

Distribution:

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

CC:

1. Registrar, CIIT
2. PS to Rector

✓ 1) Co(R) 2) ACE
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FAOG

9th minutes of Meeting

97.01.20th

Annen-IX

Bachelor of Science in Computer Engineering: BS (CE)				
Schéme of Studies (Fall 2006)				
Credit Hours 140-142				
Islamabad Campus				
1st Semester				
S #	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	HUM100	English Comprehension and Composition	3(3,0)	
2	HUM110	Islamic Studies	3(3,0)	
3	HUM111	Pakistan Studies	3(3,0)	
4	PHY121	Applied Physics for Engineers	4(3,1)	
5	MTH101	Calculus-I / Calculus I	3(3,0)	
6	EEE111	Introduction to Computers and Computing	1(0,1)	
			17(15,2)	
2nd Semester				
	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	EEE112	Engineering Mechanics and Thermodynamics	3(3,0)	
2	MTH102	Calculus - II / Calculus-II	3(3,0)	MTH101
3	MTH241	Ordinary Differential Equations	3(3,0)	MTH101
4	CSC141	Introduction to Computer Programming	4(3,1)	EEE111
5	EEE113	Engineering Drawing	1(0,1)	
6	EEE121	Electric Circuits Analysis - I / Electric Circuits Analysis-I	4(3,1)	MTH101,PHY121
			18(15,3)	
3rd Semester				
	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	MTH203	Calculus - III / Calculus -III	3(3,0)	MTH102
2	MTH231	Linear Algebra	3(3,0)	MTH101
3	EEE231	Electronics - I / Electronic - I	4(3,1)	EEE121
4	EEE222	Electric Circuit Analysis - II	3(3,0)	EEE121,MTH241
5	EEE241	Digital Logic Design	4(3,1)	
			17(15,2)	
4th Semester				
	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	MTH263	Probability Theory and Random Variables	3(3,0)	MTH231,MTH203
2	CSC112	Algorithms and Data Structures	4(3,1)	CSC141
3	EEE261	Electromagnetic Theory	3(3,0)	MTH203
4	EEE223	Signals and Systems	3(3,0)	MTH241
5	EEE232	Electronics - II / Electronics-II	4(3,1)	EEE231, EEE22
6	HUM102	Report Writing Skills	3(3,0)	HUM100
			20(18,2)	

5th Semester

	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	MTH375	Numerical Computations / Numerical Computing	3(2,1)	MTH102,CSC141, MTH 231
2	EEE342	Microprocessor Systems & Interfacing	4(3,1)	EEE241
3	EEE371	Electric Machines	4(3,1)	EEE222, EEE261
4	EEE324	Digital Signal Processing	4(3,1)	EEE223
5	EEE351	Principles of Communication System	4(3,1)	EEE223
			19(14,5)	

6th Semester

	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	EEE325	Control Systems	4(3,1)	EEE223
2	EEE343	Computer Organization	4(3,1)	EEE342
3	EEE314	Data Communication & Computer Networks	4(3,1)	EEE351
4	CS322	Operating Systems Concepts	4(4,0)	CSC112
5	EEE344	Advanced Digital Logic Design	4(3,1)	EEE241, CSC141
			20(16,4)	

7th Semester

	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	ECO300	Engineering Economics	3(3,0)	
3	CSC341	Network Programming	4(3,1)	EEE314, CSC141
2	CSC421	System Programming	4(3,1)	CSC322, CSC141
4		Area Elective*	3(3,0)/4(3,1)	
5	EEE490	Final Year Project (Part-I)**	1(0,1)	
			15-16(12,3-4)	

8th Semester

	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	LAW300	Corporate Law	3(3,0)	
2	MGT403	Entrepreneurship	3(3,0)	
3		EE Elective***	3(3,0)/4(3,1)	
4	EEE490	Final Year Project (Part-II)	5(0,5)	
			14-15(9,5-6)	-

Elective List

	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	EEE434	VLSI Design	4(3,0)	EEE241, EEE232
2	EEE445	Advanced Computer Architecture	3(3,0)	EEE343
3	EEE446	Real Time Embedded Systems	4(3,0)	EEE342
4	CSC334	Distributed Computing	4(3,1)	EEE314, CSC141
5	CSC492	Software Engineering	3(3,0)	
6	EEE415	Digital Image Processing	4(3,1)	EEE324
7	CSC271	Database Systems	4(3,1)	CSC112

SP079th minutes of Meritlist

07.01.2011

Bachelor of Science in Computer Engineering: BS (CE)Scheme of Studies (Spring 2007)
Credit Hours 140-142**Islamabad Campus****1st Semester**

S #	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	HUM100	English Comprehension and Composition	3(3,0)	
2	HUM110	Islamic Studies	3(3,0)	
3	HUM111	Pakistan Studies	3(3,0)	
4	PHY121	Applied Physics for Engineers	4(3,1)	
5	MTH101	Calculus-I / Calculus I	3(3,0)	
6	EEE111	Introduction to Computers and Computing	1(0,1)	
				17(15,2)

2nd Semester

	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	EEE112	Engineering Mechanics and Thermodynamics	3(3,0)	
2	MTH102	Calculus - II / Calculus-II	3(3,0)	MTH101
3	MTH241	Ordinary Differential Equations	3(3,0)	MTH101
4	CSC141	Introduction to Computer Programming	4(3,1)	EEE111
5	EEE113	Engineering Drawing	1(0,1)	
6	EEE121	Electric Circuits Analysis - I / Electric Circuits Analysis-I	4(3,1)	MTH101, PHY121
				18(15,3)

3rd Semester

	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	MTH203	Calculus - III / Calculus -III	3(3,0)	MTH102
2	MTH231	Linear Algebra	3(3,0)	MTH101
3	EEE231	Electronics - I / Electronic - I	4(3,1)	EEE121
4	EEE222	Electric Circuit Analysis - II	3(3,0)	EEE121, MTH241
5	EEE241	Digital Logic Design	4(3,1)	
				17(15,2)

4th Semester

	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	MTH263	Probability Theory and Random Variables	3(3,0)	MTH231, MTH203
2	CSC112	Algorithms and Data Structures	4(3,1)	CSC141
3	EEE261	Electromagnetic Theory	3(3,0)	MTH203
4	EEE273	Signals and Systems	3(3,0)	MTH241
5	EEE232	Electronics - II / Electronics-II	4(3,1)	EEE231, EEE222
6	HUM102	Report Writing Skills	3(3,0)	HUM100
				20(18,2)

5th Semester				
	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	MTH375	Numerical Computations / Numerical Computing	3(2,1)	MTH102 CSC141, MTH 231
2	EEE342	Microprocessor Systems & Interfacing	4(3,1)	EEE241
3	EEE371	Electric Machines	4(3,1)	EEE222, EEE261
4	EEE324	Digital Signal Processing	4(3,1)	EEE223
5	EEE351	Principles of Communication Systems / Principles of Communication System	4(3,1)	EEE223
			19(14.5)	

6th Semester				
	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	EEE325	Control Systems	4(3,1)	EEE223
2	EEE343	Computer Organization and Architecture / Computer Organization	4(3,1)	EEE342
3	EEE314	Data Communication & Computer Networks	4(3,1)	EEE351
4	CS322	Operating Systems Concepts	4(4.0)	CSC112
5	EEE344	Advance Digital Logic Design / Advanced Digital Logic Design	4(3,1)	EEE241 CSC141
			20(16.4)	

7th Semester				
	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	ECO300	Engineering Economics	3(3,0)	
3	CSC341	Network Programming	4(3,1)	EEE314, CSC141
2	CSC421	System Programming	4(3,1)	CSC322, CSC141
4		Area Elective*	3(3,0)/4(3,1)	
5	EEE490	Final Year Project (Part-I)**	1(0,1)	
			15-16(12,3-4)	

8th Semester				
	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	LAW300	Corporate Law	3(3,0)	
2	MGT403	Entrepreneurship	3(3,0)	
3		EE Elective***	3(3,0)/4(3,1)	
4	EEE490	Final Year Project (Part-II)	5(0,5)	
			14-15(9,5-6)	

Elective List				
	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	EEE434	VLSI Design	4(3,0)	EEE241, EEE232
2	EEE445	Advance Computer Architecture / Advanced Computer Architecture	3(3,0)	EEE343
3	EEE446	Real Time Embedded Systems	4(3,0)	EEE342
4	CSC334	Distributed Computing	4(3,1)	EEE314 CSC141
5	CSC402	Software Engineering	3(3,0)	
6	EEE415	Digital Image Processing	4(3,1)	EEE324
7	CSC271	Database Systems	4(3,1)	CSC112

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9th minutes of meeting

27.01.2011

Bachelor of Science in Computer Engineering: BS (CE)

Scheme of Studies (Fall 2007)
Credit Hours 140-142

Islamabad Campus

1st Semester

S #	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	HUM100	English Comprehension and Composition	3(3,0)	
2	HUM110	Islamic Studies	3(3,0)	
3	HUM111	Pakistan Studies	3(3,0)	
4	PHY121	Applied Physics for Engineers	4(3,1)	
5	MTH101	Calculus - I / Calculus I	3(3,0)	
6	EEE111	Introduction to Computers and Computing	1(0,1)	
				17(15,2)

2nd Semester

	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	EEE112	Engineering Mechanics and Thermodynamics	3(3,0)	
2	MTH102	Calculus II / Calculus-II	3(3,0)	MTH101
3	MTH241	Ordinary Differential Equations	3(3,0)	MTH101
4	CSC141	Introduction to Computer Programming	4(3,1)	EEE111
5	EEE113	Engineering Drawing	1(0,1)	
6	EEE121	Electric Circuit Analysis - I / Electric Circuits Analysis-I	4(3,1)	MTH101, PHY121
				18(15,3)

3rd Semester

	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	MTH203	Calculus III / Calculus -III	3(3,0)	MTH102
2	MTH231	Linear Algebra	3(3,0)	MTH101
3	EEE231	Electronics - I / Electronic - I	4(3,1)	EEE121
4	EEE222	Electric Circuit Analysis - II	3(3,0)	EEE121, MTH241
5	EEE241	Digital Logic Design	4(3,1)	
				17(15,2)

4th Semester

	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	MTH263	Probability Theory and Random Variables	3(3,0)	MTH231, MTH203
2	CSC112	Algorithms and Data Structures	4(3,1)	CSC141
3	EEE261	Electromagnetic Theory	3(3,0)	MTH203
4	EEE223	Signals and Systems	3(3,0)	MTH241
5	EEE232	Electronics - II / Electronics-II	4(3,1)	EEE231, EEE222
6	HUM102	Report Writing Skills	3(3,0)	HUM100
				20(18,2)

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5th Semester

	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	MTH375	Numerical Computations / Numerical Computing	3(2,1)	MTH102, CSC141, MTH 231
2	EEE342	Microprocessor Systems and Interfacing	4(3,1)	EEE241
3	EEE371	Electric Machines	4(3,1)	EEE222
4	EEE324	Digital Signal Processing	4(3,1)	EEE223
5	EEE351	Principles of Communication Systems	4(3,1)	EEE223
				19(14,5)

6th Semester

	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	EEE325	Control Systems	4(3,1)	EEE223
2	EEE343	Computer Architecture	4(3,1)	EEE342
3	EEE314	Data Communication and Computer Networks	4(3,1)	EEE351
4	CSC322	Operating Systems Concepts	4(4,0)	CSC112
5	EEE344	Digital Systems Design	4(3,1)	EEE241, CSC141
				20(16,4)

7th Semester

	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	ECO300	Engineering Economics	3(3,0)	
3	CSC341	Networking Programming / Network Programming	4(3,1)	EEE314, CSC141
2	CSC 271	System Programming	4(3,1)	CSC322, CSC141
4		Area Elective*	3(3,0) / 4(3,1)	
5	EEE490	Final Year Project (Part-I)**	1(0,1)	
				15-16 (12,3-4)

8th Semester

	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	LAW300	Corporate Law	3(3,0)	
2	MGT403	Entrepreneurship	3(3,0)	
3		EE Elective***	3(3,0) / 4(3,1)	
4	EEE490	Final Year Project (Part-II)	5(0,5)	
				14-15 (9,5-6)

Elective List

	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	EEE434	VLSI Design	4(3,0)	EEE241, EEE232
2	EEE445	Advance Computer Architecture	3(3,0)	EEE343
	CSC341	Network Programming	4(3,1)	
3	EEE446	Real Time Embedded Systems	4(3,0)	EEE342
4	CSC334	Distributed Computing	4(3,1)	EEE314,CSC141
5	CSC492	Software Engineering	3(3,0)	
	CSC421	Systems Programming	4(3,1)	CSC322,CSC141
	EEE 415	Digital Image Processing	4(3,1)	

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9th minutes of meeting

27.01.2011

Bachelor of Science in Computer Engineering: BS (CE)				
Scheme of Studies (Spring 2008)				
Credit Hours 140-142				
Islamabad Campus				
1st Semester				
S #	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	HUM100	English Comprehension and Composition	3(3,0)	
2	HUM110	Islamic Studies	3(3,0)	
3	HUM111	Pakistan Studies	3(3,0)	
4	PHY121	Applied Physics for Engineers	4(3,1)	
5	MTH101	Calculus - I / Calculus I	3(3,0)	
6	EEE111	Introduction to Computers and Computing	1(0,1)	
				17(15,2)
2nd Semester				
	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	EEE112	Engineering Mechanics and Thermodynamics	3(3,0)	
2	MTH102	Calculus II / Calculus-II	3(3,0)	MTH101
3	MTH241	Ordinary Differential Equations	3(3,0)	MTH101
4	CSC141	Introduction to Computer Programming	4(3,1)	EEE111
5	EEE113	Engineering Drawing	1(0,1)	
6	EEE121	Electric Circuit Analysis - I / Electric Circuits Analysis-I	4(3,1)	MTH101, PHY121
				18(15,3)
3rd Semester				
	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	MTH203	Calculus III / Calculus -III	3(3,0)	MTH102
2	MTH231	Linear Algebra	3(3,0)	MTH101
3	EEE231	Electronics - I / Electronic - I	4(3,1)	EEE121
4	EEE222	Electric Circuit Analysis - II	3(3,0)	EEE121, MTH241
5	EEE241	Digital Logic Design	4(3,1)	
				17(15,2)
4th Semester				
	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	MTH263	Probability Theory and Random Variables	3(3,0)	MTH231, MTH203
2	CSC112	Algorithms and Data Structures	4(3,1)	CSC141
3	EEE261	Electromagnetic Theory	3(3,0)	MTH203
4	EEE223	Signals and Systems	3(3,0)	MTH241
5	EEE232	Electronics - II / Electronics-II	4(3,1)	EEE231, EEE222
6	HUM102	Report Writing Skills	3(3,0)	HUM100
				20(18,2)

5th Semester				
	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	MTH375	Numerical Computations / Numerical Computing	3(2,1)	MTH102,CSC141,MTH 231
2	EEE342	Microprocessor Systems and Interfacing	4(3,1)	EEE241
3	EEE371	Electric Machines	4(3,1)	EEE222
4	EEE324	Digital Signal Processing	4(3,1)	EEE223
5	EEE351	Principles of Communication Systems	4(3,1)	EEE223
				19(14,5)

6th Semester				
	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	EEE325	Control Systems	4(3,1)	EEE223
2	EEE343	Computer Architecture	4(3,1)	EEE342
3	EEE314	Data Communication and Computer Networks	4(3,1)	EEE351
4	CSC322	Operating Systems Concepts	3(3,0)	CSC112
5	EEE344	Digital Systems Design	4(3,1)	EEE241,CSC141
				20(16,4)

7th Semester				
	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	ECO300	Engineering Economics	3(3,0)	
3	CSC341	Networking Programming / Network Programming	4(3,1)	EEE314,CSC141
2	CSC 271	System Programming	4(3,1)	CSC322 CSC141
4		Area Elective*	3(3,0) / 4(3,1)	
5	EEE490	Final Year Project (Part-I)**	1(0,1)	
				15-16 (12,3-4)

8th Semester				
	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	LAW300	Corporate Law	3(3,0)	
2	MGT403	Entrepreneurship	3(3,0)	
3		EE Elective***	3(3,0) / 4(3,1)	
4	EEE490	Final Year Project (Part-II)	5(0,5)	
				14-15 (9,5-6)

Elective List				
	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	EEE434	VLSI Design	4(3,0)	EEE241,EEE232
2	EEE445	Advance Computer Architecture	3(3,0)	EEE343
	CSC341	Network Programming	4(3,1)	
3	EEE446	Real Time Embedded Systems	4(3,0)	EEE342
4	CSC334	Distributed Computing	4(3,1)	EEE314, CSC141
5	CSC492	Software Engineering	3(3,0)	
	CSC421	Systems Programming	4(3,1)	CSC322, CSC141
	EEE 415	Digital Image Processing	4(3,1)	

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9th minutes of meetings

27.01.2011

Bachelor of Science in Computer Engineering: BS (CE)

Scheme of Studies (Fall 2008)

Credit Hours 140-142

Islamabad Campus

1st Semester

S #	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	HUM100	English Comprehension and Composition	3(3,0)	
2	HUM110	Islamic Studies	3(3,0)	
3	HUM111	Pakistan Studies	3(3,0)	
4	PHY121	Applied Physics for Engineers	4(3,1)	
5	MTH101	Calculus-I / Calculus I	3(3,0)	
6	EEE111	Introduction to Computers and Computing	1(0,1)	
				17(15,2)

2nd Semester

	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	EEE112	Engineering Thermodynamics	3(3,0)	
2	MTH102	Calculus - II / Calculus-II	3(3,0)	MTH101
3	MTH241	Ordinary Differential Equations	3(3,0)	MTH101
4	CSC141	Introduction to Computer Programming	4(3,1)	EEE111
5	EEE113	Engineering Drawing	1(0,1)	
6	EEE121	Electric Circuits Analysis - I / Electric Circuits Analysis-I	4(3,1)	MTH101, PHY121
				18(15,3)

3rd Semester

	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	MTH203	Calculus - III	3(3,0)	MTH102
2	MTH231	Linear Algebra	3(3,0)	
3	EEE231	Electronics - I	4(3,1)	EEE121
4	EEE222	Electric Circuits Analysis - II	3(3,0)	EEE121, MTH241
5	EEE241	Digital Logic Design	4(3,1)	
				17(15,2)

4th Semester

	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	MTH263	Probability Theory and Random Variables	3(3,0)	
2	CSC112	Algorithms and Data Structures	4(3,1)	CSC141
3	EEE261	Electromagnetic Theory	3(3,0)	MTH203
4	EEE223	Signals and Systems	3(3,0)	MTH241
5	EEE232	Electronics - II	4(3,1)	EEE231, EEE222
6	HUM102	Report Writing Skills	3(3,0)	HUM100
				20(18,2)

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5th Semester				
	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	MTH375	Numerical Computations	3(2.1)	MTH102, CSC141
2	EEE342	Microprocessor Systems and Interfacing	4(3,1)	EEE241
3	EEE371	Electric Machines	4(3,1)	EEE222, EEE261
4	EEE324	Digital Signal Processing	4(3,1)	EEE223
5	EEE351	Principles of Communication Systems	4(3,1)	EEE223
				19(14,5)

6th Semester				
	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	EEE325	Control Systems	4(3,1)	EEE223
2	EEE343	Computer Organization	4(3,1)	EEE342
3	EEE314	Data Communication and Computer Networks	4(3,1)	EEE351
4	CSC322	Operating Systems Concepts	3(3,0)	CSC112
5	EEE344	Advance Digital Logic Design	4(3,1)	EEE241, CSC141
				20(16,4)

7th Semester				
	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	ECO300	Engineering Economics	3(3,0)	
3	CSC341	Network Programming	4(3,1)	EEE314, CSC141
2	CSC421	Systems Programming	4(3,1)	CSC322, CSC141
4		Area Elective*	3(3,0) / 4(3,1)	
5	EEE490	Final Year Project (Part-I)**	1(0,1)	
				15-16 (12,3-4)

8th Semester				
	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	LAW300	Corporate Law	3(3,0)	
2	MGT403	Entrepreneurship	3(3,0)	
3		EE Elective***	3(3,0) / 4(3,1)	
4	EEE490	Final Year Project (Part-II)	5(0,5)	
				14-15 (9,5-6)

Elective list				
	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	EEE434	VLSI Design	4(3,1)	EEE241, EEE232
2	EEE440	Computer Architecture	3(3,0)	EEE343
3	EEE446	Real Time Embedded Systems	4(3,1)	EEE342
4	CSC271	Database Systems	4(3,1)	
5	CSC334	Distributed Computing	4(3,1)	EEE314, CSC141
6	CSC492	Software Engineering	3(3,0)	
7	EEE415	Digital Image Processing	4(3,1)	
8		Wireless Networks		

SPO9

9th minutes of meetings

27.01.2011

Bachelor of Science in Computer Engineering: BS (CE)

Scheme of Studies (Spring 2009)

Credit Hours 140-142

Islamabad Campus

1st Semester

S #	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	HUM100	English Comprehension and Composition	3(3,0)	
2	HUM110	Islamic Studies	3(3,0)	
3	HUM111	Pakistan Studies	3(3,0)	
4	PHY121	Applied Physics for Engineers	4(3,1)	
5	MTH101	Calculus-I / Calculus I	3(3,0)	
6	EEE111	Introduction to Computers and Computing	1(0,1)	
				17(15,2)

2nd Semester

	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	EEE112	Engineering Thermodynamics	3(3,0)	
2	MTH102	Calculus - II / Calculus-II	3(3,0)	MTH101
3	MTH241	Ordinary Differential Equations	3(3,0)	MTH101
4	CSC141	Introduction to Computer Programming	4(3,1)	EEE111
5	EEE113	Engineering Drawing	1(0,1)	
6	EEE121	Electric Circuits Analysis - I / Electric Circuits Analysis-I	4(3,1)	MTH101, PHY121
				18(15,3)

3rd Semester

	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	MTH203	Calculus - III	3(3,0)	MTH102
2	MTH231	Linear Algebra	3(3,0)	
3	EEE231	Electronics - I	4(3,1)	EEE121
4	EEE222	Electric Circuits Analysis - II	3(3,0)	EEE121, MTH241
5	EEE241	Digital Logic Design	4(3,1)	
				17(15,2)

4th Semester

	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	MTH263	Probability Theory and Random Variables	3(3,0)	
2	CSC122	Algorithms and Data Structures	4(3,1)	CSC141
3	EEE261	Electromagnetic Theory	3(3,0)	MTH203
4	EEE223	Signals and Systems	3(3,0)	MTH241
5	EEE232	Electronics - II	4(3,1)	EEE231, EEE222
6	HUM102	Report Writing Skills	3(3,0)	HUM100
				20(18,2)

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5th Semester				
	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	MTH375	Numerical Computations	3(2,1)	MTH102, CSC141
2	EEE342	Microprocessor Systems and Interfacing	4(3,1)	EEE241
3	EEE371	Electric Machines	4(3,1)	EEE222, EEE261
4	EEE324	Digital Signal Processing	4(3,1)	EEE223
5	EEE351	Principles of Communication Systems	4(3,1)	EEE223
				19(14,5)

6th Semester				
	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	EEE325	Control Systems	4(3,1)	EEE223
2	EEE343	Computer Organization	4(3,1)	EEE342
3	EEE314	Data Communication and Computer Networks	4(3,1)	EEE351
4	CSC322	Operating Systems Concepts	3(3,0)	CSC112
5	EEE344	Advance Digital Logic Design	4(3,1)	EEE241, CSC141
				20(16,4)

7th Semester				
	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	ECO300	Engineering Economics	3(3,0)	
3	CSC341	Network Programming	4(3,1)	EEE314, CSC141
2	CSC421	Systems Programming	4(3,1)	CSC322, CSC141
4		Area Elective*	3(3,0) / 4(3,1)	
5	EEE490	Final Year Project (Part-I)**	1(0,1)	
				15-16 (12,3-4)

8th Semester				
	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	LAW300	Corporate Law	3(3,0)	
2	MGT403	Entrepreneurship	3(3,0)	
3		EE Elective***	3(3,0) / 4(3,1)	
4	EEE490	Final Year Project (Part-II)	5(0,5)	
				14-15 (9,5-6)

Elective list				
	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	EEE434	VLSI Design	4(3,1)	EEE241, EEE232
2	EEE440	Computer Architecture	3(3,0)	EEE343
3	EEE446	Real Time Embedded Systems	4(3,1)	EEE342
4	CSC271	Database Systems	4(3,1)	
5	CSC334	Distributed Computing	4(3,1)	EEE314, CSC141
6	CSC492	Software Engineering	3(3,0)	
7	EEE415	Digital Image Processing	4(3,1)	
8		Wireless Networks		

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27.01.2011

Bachelor of Science in Electrical (Computer) Engineering

Scheme of Studies (Fall 2009)

Credit Hours 134-137

Islamabad Campus

Semester 1

Course Code	Course Title	Credit Hours	Prerequisite
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 / Calculus—I	3(3,0)	
EEE113	Engineering Drawing	1(0, 1)	
EEE112	Engineering Mechanics and Thermodynamics	3(3,0)	
		17(15,2)	

Semester 2

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

Semester 3

Course Code	Course Title	Credit Hours ¹	Prerequisite
MTH203	Calculus III / 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
		18(15,3)	

Semester 4

Course Code	Course Title	Credit Hours ¹	Prerequisite
MTH263	Probability Theory and Random Variables	3(3,0)	MTH203
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)	
		16(15,1)	

Semester 5

Course Code	Course Title	Credit Hours ¹	Prerequisite
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
		20(15,5)	

Semester 6

Course Code	Course Title	Credit Hours ¹	Prerequisite
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
		18(15,3)	

Semester 7

Course Code	Course Title	Credit Hours ¹	Prerequisite
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
		14-15 (12,2-3)	

Semester 8

Course Code	Course Title	Credit Hours ¹	Prerequisite
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)	
		14-16 (9,5-7)	

Elective list

Course Code	Course Title	Credit Hours ¹	Prerequisite
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

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27.01.2011

Bachelor of Science in Electrical (Computer) Engineering**Scheme of Studies (Spring 2010)****Credit Hours 134-137****Islamabad Campus****Semester 1**

Course Code	Course Title	Credit Hours	Prerequisite
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 / Calculus-I	3(3,0)	
EEE113	Engineering Drawing	1(0, 1)	
EEE112	Engineering Mechanics and Thermodynamics	3(3,0)	
17(15,2)			

Semester 2

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

Semester 3

Course Code	Course Title	Credit Hours ¹	Prerequisite
MTH203	Calculus III / 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
18(15,3)			

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Semester 4

Course Code	Course Title	Credit Hours ¹	Prerequisite
MTH263	Probability Theory and Random Variables	3(3,0)	MTH203
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)	
		16(15,1)	

Semester 5

Course Code	Course Title	Credit Hours ¹	Prerequisite
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
		20(15,5)	

Semester 6

Course Code	Course Title	Credit Hours ¹	Prerequisite
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
		18(15,3)	

Semester 7

Course Code	Course Title	Credit Hours ¹	Prerequisite
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
		14-15 (12,2-3)	

Semester 8

Course Code	Course Title	Credit Hours ¹	Prerequisite
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)	
		14-16 (9,5-7)	

Elective list

Course Code	Course Title	Credit Hours ¹	Prerequisite
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

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