



## 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 9<sup>th</sup> 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  
J 2/2

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*PAOB*

*9th minutes of meetings*  
27.01.2011

Bachelor of Science in Telecommunications Engineering: BS (TE)				
Scheme of Studies (Fall 2006)				
Credit Hours 139				
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	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 Circuit 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)	MTH101
3	EEE231	Electronics - I / Electronics-I	4(3,1)	EEE121
4	EEE222	Electric Circuit Analysis - II / 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)	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, EEE261
4	EEE324	Digital Signal Processing	4(3,1)	EEE223
5	EEE352	Analog Communication Systems / Analog Communication System	4(3,1)	EEE223, MTH263
			19(14,5)	

### 6th Semester

	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	EEE325	Control Systems	4(3,1)	EEE223
2	EEE353	Digital Communication Systems	4(3,1)	EEE352
3	EEE314	Data Communication and Computer Networks	4(3,1)	EEE353
4	EEE362	Microwave Engineering	4(3,1)	EEE 232, EEE261
5	EEE354	Telecommunication Systems Engineering	3(3,0)	EEE352
			19(15,4)	

### 7th Semester

	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	ECO300	Engineering Economics	3(3,0)	
2	CSC341	Network Programming	4(3,1)	EEE314, CSC141
3	EEE463	Antenna and Radio wave Propagation	4(3,1)	EEE261
4		Area Elective*	3(3,0)	
5	EEE490	Final Year Project (Part-I)**	1(0,1)	
			16(12,3)	

### 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	EEE490	Final Year Project (Part-II)	5(0,5)	
			14(9,5)	

### Elective List

	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	EEE455	Optical Fiber Communications	3(3,0)	EEE232, EEE362
2	EEE456	Broadband Technologies	3(3,0)	EEE314, EEE354
3	EEE464	Wireless Communication Systems	3(3,0)	EEE314, EEE463
4	EEE465	Microwave & Satellite Communication Systems	3(3,0)	EEE353, EEE463
5	EEE466	Radars and Navigation Aids	3(3,0)	EEE463

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4th minutes of meetings

27.01.2011

### Bachelor of Science in Telecommunications Engineering: BS (TE)

Scheme of Studies (Spring 2007)

Credit Hours 139

#### 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	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 Circuit 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)	MTH101
3	EEE231	Electronics - I / Electronics-I	4(3,1)	EEE121
4	EEE222	Electric Circuit Anaylsis - II / Electric Circuits Anaylsis-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, EEE261
4	EEE324	Digital Signal Processing	4(3,1)	EEE223
5	EEE352	Analog Communication Systems / Analog Communication System	4(3,1)	EEE223, MTH263
			19(14,5)	

### 6th Semester

	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	EEE325	Control Systems	4(3,1)	EEE223
2	EEE353	Digital Communication Systems	4(3,1)	EEE352
3	EEE314	Data Communication and Computer Networks	4(3,1)	EEE353
4	EEE362	Microwave Engineering	4(3,1)	EEE 232, EEE261
5	EEE354	Telecommunication Systems Engineering	3(3,0)	EEE352
			19(15,4)	

### 7th Semester

	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	ECO300	Engineering Economics	3(3,0)	
2	CSC341	Network Programming	4(3,1)	EEE314, CSC141
3	EEE463	Antenna and Radio wave Propagation	4(3,1)	EEE261
4		Area Elective*	3(3,0)	
5	EEE490	Final Year Project (Part-I)**	1(0,1)	
			15(12,3)	

### 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	EEE490	Final Year Project (Part-II)	5(0,5)	
			14(9,5)	

### Elective List

	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
2	EEE455	Optical Fiber Communications	3(3,0)	EEE232, EEE362
3	EEE456	Broadband Technologies	3(3,0)	EEE314, EEE354
1	EEE464	Wireless Communication Systems	3(3,0)	EEE314, EEE463
4	EEE465	Microwave & Satellite Communication Systems	3(3,0)	EEE353, EEE463
5	EEE466	Radar and Navigation Aids	3(3,0)	EEE463

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9th minutes of meetings

21-01-2011

Bachelor of Science in Telecommunications Engineering: BS (TE)

Scheme of Studies (Fall 2007)

Credit Hours - 139

**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	3(3,0)	
6	EEE111	Introduction to Computers and Computing	1(0,1)	
				17(16,2)

**2nd Semester**

	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	EEE112	Engineering Mechanics and Thermodynamics / Engineering Mechanics & 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 Circuit 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 / Electronics-I	4(3,1)	EEE121
4	EEE222	Electric Circuits Analysis - II / 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)	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(3,1)	MTH241
5	EEE232	Electronics - II / Electronics-II	4(3,1)	EEE231, EEE222
6	HUM102	Report Writing Skills	3(3,0)	HUM100
				20(18,3)

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### 5th Semester

	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	MTH375	Numerical Computations / Numerical Computing	3(2,1)	MTH102, MTH231, CSC141
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	EEE352	Analog Communication Systems / Analog Communication System	4(3,1)	EEE223, MTH263
			19(14,5)	

### 6th Semester

	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	EEE325	Control Systems	4(3,1)	EEE223
2	EEE353	Digital Communication Systems	4(3,1)	EEE352
3	EEE314	Data Communication and Computer Networks	4(3,1)	EEE353
4	EEE362	Microwave Engineering	4(3,1)	EEE 232, EEE261
5	EEE354	Telecommunication Systems Engineering	3(3,0)	EEE352
			19(15,4)	

### 7th Semester

	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	ECO300	Engineering Economics	3(3,0)	
2	EEE463	Antenna and Radio Wave Propogation	4(3,1)	EEE261
3	CSC341	Network Programming	4(3,1)	EEE314, CSC141
4		Area Elective*	3(3,0)	
5	EEE490	Final Year Project (Part-I)**	1(0,1)	
			15(12,3)	

### 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	EEE490	Final Year Project (Part-II)	5(0,5)	
			14(9,5)	

### Elective List

	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	EEE455	Optical Fiber Communications	3(3,0)	EEE232, EEE362
2	EEE456	Broadband Technologies	3(3,0)	EEE314, EEE354
3	EEE464	Wireless Communication Systems	3(3,0)	EEE314, EEE463
4	EEE465	Microwave & Satellite Communication Systems	3(3,0)	EEE353, EEE463
5	EEE466	Radars and Navigation Aids	3(3,0)	EEE353, EEE463
6		Telecommunication Policies Standards & Regulations		EEE463
7		Transmission and Switching System		

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9th minutes of meetings

27-01-2011

Bachelor of Science in Telecommunications Engineering: BS (TE)				
Scheme of Studies (Spring 2008)				
Credit Hours 139				
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	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 / Engineering Mechanics & 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 Circuit 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 / Electronics-I	4(3,1)	EEE121
4	EEE222	Electric Circuits Analysis - II / 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)	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(3,1)	MTH241
5	EEE232	Electronics - II / Electronics-II	4(3,1)	EEE231, EEE222
6	HUM102	Report Writing Skills	3(3,0)	HUM100
				20(18,3)

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### 5th Semester

	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	MTH375	Numerical Computations / Numerical Computing	3(2,1)	MTH102, MTH231, CSC141
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	EEE352	Analog Communication Systems / Analog Communication System	4(3,1)	EEE223, MTH263
			19(14,5)	

### 6th Semester

	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	EEE325	Control Systems	4(3,1)	EEE223
2	EEE353	Digital Communication Systems	4(3,1)	EEE352
3	EEE314	Data Communication and Computer Networks	4(3,1)	EEE353
4	EEE362	Microwave Engineering	4(3,1)	EEE 232, EEE261
5	EEE354	Telecommunication Systems Engineering	3(3,0)	EEE352
			19(15,4)	

### 7th Semester

	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	ECC300	Engineering Economics	3(3,0)	
2	EEE463	Antenna and Radio Wave Propagation	4(3,1)	EEE261
3	CSC341	Network Programming	4(3,1)	EEE314, CSC141
4		Area Elective*	3(3,0)	
5	EEE490	Final Year Project (Part-I)**	1(0,1)	
			15(12,3)	

### 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	EEE490	Final Year Project (Part-II)	5(0,5)	
			14(9,5)	

### Elective List

	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	EEE455	Optical Fiber Communications	3(3,0)	EEE232, EEE362
2	EEE456	Broadband Technologies	3(3,0)	EEE314, EEE354
3	EEE464	Wireless Communication Systems	3(3,0)	EEE314, EEE463
4	EEE465	Microwave & Satellite Communication Systems	3(3,0)	EEE353, EEE463
5	EEE466	Radar's and Navigation Aids	3(3,0)	EEE353, EEE463
6		Telecommunication Policies Standards & Regulations		EEE463
7		Transmission and Switching System		

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9th Minutes of Meeting

21.05.2011

<b>Bachelor of Science in Telecommunications Engineering: BS(TE)</b>				
<b>Scheme of Studies (Fall 2008)</b>				
<b>Credit Hours 139</b>				
<b>Islamabad Campus</b>				
<b>1st Semester</b>				
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	3(3,0)	
6	EEE111	Introduction to Computers and Computing	1(0,1)	
				<b>17(15,2)</b>
<b>2nd Semester</b>				
	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
				<b>18(15,3)</b>
<b>3rd Semester</b>				
	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)	
3	EEE231	Electronics - I	4(3,1)	EEE121
4	EEE222	Electric Circuits Anaylsis - II	3(3,0)	MTH241, EEE121
5	EEE241	Digital Logic Design	4(3,1)	
				<b>17(15,2)</b>
<b>4th Semester</b>				
	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
				<b>20(18,2)</b>

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	EEE352	Analog Communication Systems	4(3,1)	EEE223, MTH263
				19(14,5)

6th Semester				
	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	EEE325	Control Systems	4(3,1)	EEE223
2	EEE353	Digital Communication Systems	4(3,1)	EEE352
3	EEE314	Data Communication and Computer Networks	4(3,1)	EEE353
4	EEE362	Microwave Engineering	4(3,1)	EEE 232, EEE261
5	EEE354	Telecommunication Systems Engineering	3(3,0)	EEE352
				19(15,4)

7th Semester				
	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	ECO300	Engineering Economics	3(3,0)	
2	CSC341	Network Programming	4(3,1)	EEE314, CSC141
3	EEE463	Antenna and Radio wave Propogation	4(3,1)	EEE261
4		Area Elective*	3(3,0)	
5	EEE490	Final Year Project (Part-I)**	1(0 1)	
				15(12,3)

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	EEE490	Final Year Project (Part-II)	5(0.5)	
				14(9,5)

Elective list				
	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	EEE454	Transmission & Switching Systems	3,(3,0)	EEE352, EEE353
2	EEE455	Optical Fiber Communications	3(3,0)	EEE232, EEE362
3	EEE456	Broadband Technologies	3(3,0)	EEE314, EEE354
4	EEE464	Wireless Communication Systems	3(3,0)	EEE314, EEE463
5	EEE465	Microwave & Satellite Communication Systems	3(3,0)	EEE353, EEE463
6	EEE466	Radar and Navigation Aids	3(3,0)	EEE463
7	EEE476	Telecommunication Policies Standards & Regulations	3(3,0)	

SPO01, 9th Minutes of Meetings  
27.01.2011

Bachelor of Science in Telecommunications Engineering; BS(TE)				
Scheme of Studies (Spring 2009)				
Credit Hours 139				
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	3(3,0)	
6	EEE111	Introduction to Computers and Computing	1(0,1)	
				17(16,2)
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(16,3)
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)	
3	EEE231	Electronics - I	4(3,1)	EEE121
4	EEE222	Electric Circuits Analysis - II	3(3,0)	MTH241, EEE121
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)

### 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	EEE352	Analog Communication Systems	4(3,1)	EEE223, MTH263
			19(14,5)	

### 6th Semester

	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	EEE325	Control Systems	4(3,1)	EEE223
2	EEE353	Digital Communication Systems	4(3,1)	EEE352
3	EEE314	Data Communication and Computer Networks	4(3,1)	EEE353
4	EEE362	Microwave Engineering	4(3,1)	EEE 232, EEE261
5	EEE354	Telecommunication Systems Engineering	3(3,0)	EEE352
			19(15,4)	

### 7th Semester

	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	ECO300	Engineering Economics	3(3,0)	
2	CSC341	Network Programming	4(3,1)	EEE314, CSC141
3	EEE463	Antenna and Radio wave Propogation	4(3,1)	EEE261
4		Area Elective*	3(3,0)	
5	EEE490	Final Year Project (Part-I)**	1(0,1)	
			15(12,3)	

### 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	EEE490	Final Year Project (Part-II)	5(0,5)	
			14(9,5)	

### Elective list

	Course Codes	Course Titles (offered)	Credit Hrs	Prerequisite
1	EEE454	Transmission & Switching Systems	3,(3,0)	EEE352, EEE353
2	EEE455	Optical Fiber Communications	3(3,0)	EEE232, EEE362
3	EEE456	Broadband Technologies	3(3,0)	EEE314, EEE354
4	EEE464	Wireless Communication Systems	3(3,0)	EEE314, EEE463
5	EEE465	Microwave & Satellite Communication Systems	3(3,0)	EEE353, EEE463
6	EEE466	Radars and Navigation Aids	3(3,0)	EEE463
7	EEE476	Telecommunication Policies Standards & Regulations	3(3,0)	

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9th minutes of meeting

27.01.2011

## Bachelor of Science in Electrical (Telecommunication) Engineering

Scheme of Studies (Fall 2009)

Credit Hours 135-138

### Islamabad Campus

#### Semester 1

Course Codes	Course Titles	Credit Hrs	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	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 <sup>1</sup>	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 <sup>1</sup>	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 <sup>1</sup>	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 <sup>1</sup>	Prerequisite
EEE232	Electronics – II	4(3,1)	EEE222, EEE231
EEE371	Electric Machines	4(3,1)	EEE222, EEE261
CSC112	Algorithms and Data Structures	4(3,1)	CSC141
EEE324	Digital Signal Processing	4(3,1)	EEE223
EEE352	Analog Communication Systems	4(3,1)	EEE223, MTH263
		20(15,5)	

### Semester 6

Course Code	Course Title	Credit Hours <sup>1</sup>	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)	
EEE463	Antenna and Radio Wave Propagation	4(3,1)	EEE261
		19(15,4)	

### Semester 7

Course Code	Course Title	Credit Hours <sup>1</sup>	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)	
EEE353	Digital Communication Systems	4(3,1)	EEE352
		14-15 (12,2-3)	

### Semester 8

Course Code	Course Title	Credit Hours <sup>1</sup>	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 <sup>1</sup>	Prerequisite
EEE354	Telecommunication Systems Engineering	3(3,0)	EEE352
EEE362	Microwave Engineering	4(3,1)	EEE232, EEE261
CSC341	Network Programming	4(3,1)	EEE314, CSC141
EEE454	Transmission & Switching Systems	3(3,0)	EEE352, EEE353
EEE455	Optical Fiber Communications	3(3,0)	EEE232, EEE362
EEE456	Broadband Technologies	3(3,0)	EEE314, EEE354
EEE464	Wireless Communication Systems	3(3,0)	EEE314, EEE463
EEE465	Microwave & Satellite Communication Systems	3(3,0)	EEE353, EEE463
EEE466	Radars and Navigation Aids	3(3,0)	EEE463
EEE476	Telecommunication Policies Standards & Regulations	3(3,0)	
EEE415	Digital Image Processing	4(3,1)	MTH231, EEE223

Bachelor of Science in Electrical (Telecommunication) Engineering

Scheme of Studies (Spring 2010)

Credit Hours 135-138

## Islamabad Campus

## Semester 1

Course Codes	Course Titles	Credit Hrs	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	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 <sup>1</sup>	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 <sup>1</sup>	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 <sup>1</sup>	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 <sup>1</sup>	Prerequisite
EEE232	Electronics – II	4(3,1)	EEE222, EEE231
EEE371	Electric Machines	4(3,1)	EEE222, EEE261
CSC112	Algorithms and Data Structures	4(3,1)	CSC141
EEE324	Digital Signal Processing	4(3,1)	EEE223
EEE352	Analog Communication Systems	4(3,1)	EEE223, MTH263
		20(15,5)	

### Semester 6

Course Code	Course Title	Credit Hours <sup>1</sup>	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)	
EEE463	Antenna and Radio Wave Propagation	4(3,1)	EEE261
		19(15,4)	

### Semester 7

Course Code	Course Title	Credit Hours <sup>1</sup>	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)	
EEE353	Digital Communication Systems	4(3,1)	EEE352
		14-15 (12,2-3)	

### Semester 8

Course Code	Course Title	Credit Hours <sup>1</sup>	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 <sup>1</sup>	Prerequisite
EEE354	Telecommunication Systems Engineering	3(3,0)	EEE352
EEE362	Microwave Engineering	4(3,1)	EEE232, EEE261
CSC341	Network Programming	4(3,1)	EEE314, CSC141
EEE454	Transmission & Switching Systems	3(3,0)	EEE352, EEE353
EEE455	Optical Fiber Communications	3(3,0)	EEE232, EEE362
EEE456	Broadband Technologies	3(3,0)	EEE314, EEE354
EEE464	Wireless Communication Systems	3(3,0)	EEE314, EEE463
EEE465	Microwave & Satellite Communication Systems	3(3,0)	EEE353, EEE463
EEE466	Radars and Navigation Aids	3(3,0)	EEE463
EEE476	Telecommunication Policies Standards & Regulations	3(3,0)	
EEE415	Digital Image Processing	4(3,1)	MTH231, EEE223