

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

No: CIIT-Reg/Notif-656/12/980

July 3, 2012

NOTIFICATION

Scheme of Studies of Bachelor of Science (BS) in Telecommunication and Networking


It is hereby notified that the Academic Council in its 13th Meeting held on June 04, 2012 approved the following scheme of studies of Bachelor of Science (BS) in Telecommunication and Networking with effect from Fall 2012 at CIIT system:

i.	Minimum Duration:		04 Years
ii.	Minimum No. of Semesters:		08
		<u>Min. No. of Courses</u>	<u>Min. No. of Credit Hours</u>
iii.	Course Work		
	a. Core Courses (List attached)		
	i. Computer Science, Telecommunication and Networking	24	
	ii. Allied	04	
	iii. Institutional	06	
	b. Elective Courses (List attached)		
	i. Telecommunication and Networking	04	
	ii. Institutional	02	
	Total No. of Courses:	40	
	Total No. of Minimum Credit Hours:		134

Note:

The Regulations relating to Undergraduate Degree Programs approved by the Competent Authority and amended from time to time shall also be applicable to this program.

This issues with the approval of the Competent Authority.


Nadeem Uddin Qureshi
Additional Registrar

Encl: (pages 04 in total including this page)

Distribution:

1. Dean, Faculty of Information Sciences and Technology, CIIT
2. All Directors CIIT System.
3. Chairman, Department of Computer Science, CIIT
4. Incharge, CIIT Islamabad Campus
5. All Incharges, Academic Sections, CIIT Campuses
6. All HoD's/Incharges, Department of Computer Science, CIIT Campuses
7. Controller of Examinations, CIIT
8. All Incharges, Examination Departments, CIIT Campuses.

CC:

1. PS to Rector.
2. PA to Registrar.

List of Core Courses

Sr. No	Course Code	Course Title	Credit Hours	Pre-requisite
Computer Science, Telecommunication and Networking				
1.	CSC101	Introduction to Computing	3(2, 1)	
2.	CSC141	Introduction to Computer Programming	4(3, 1)	
3.	CSC112	Algorithms and Data Structures	4(3, 1)	CSC141
4.	CSC221	Computer Organization and Assembly Language	4(3, 1)	
5.	CSC241	Object Oriented Programming	4(3, 1)	
6.	CSC321	Network Operating Systems	3(1, 2)	
7.	CSC339	Computer Communication and Networks	4(3, 1)	
8.	CSC341	Network Programming	4(3, 1)	CSC141
9.	CSC356	Mobile Communication	3(3, 0)	
10.	CSC430	Wireless Networks	3(3, 0)	CSC339
11.	CSC492	Software Engineering	3(3, 0)	
12.	CSC499	Project	6(0, 6)	
13.	CSC242	Introduction to Telecommunication Systems	3(2, 1)	
14.	CSC333	Applied Networking	3(1, 2)	CSC339
15.	CSC432	Telecommunication Network Design	3(3, 0)	CSC339
16.	CSC438	Telecommunication Network Management	3(3, 0)	CSC432
17.	EEE119	Circuits and Electronics	4(3, 1)	
18.	EEE223	Signals and Systems	3(3, 0)	MTH105
19.	EEE241	Digital Logic Design	4(3, 1)	CSC102
20.	EEE261	Electromagnetic Theory	3(3, 0)	EEE223
21.	EEE324	Digital Signal Processing	4(3, 1)	EEE223
22.	CSC491	Quality Control in Telecommunication	3(3, 0)	CSC242
23.	CSC436	Routing and Switching Principles	4(3, 1)	CSC339
24.	EEE463	Antenna and Radio Wave Propagation	4(3, 1)	EEE261

Allied				
25.	MTH104	Calculus and Analytical Geometry	3(3, 0)	
26.	MTH231	Linear Algebra	3(3, 0)	
27.	MTH242	Differential Equations	3(3, 0)	MTH104
28.	MTH262	Statistics and Probability Theory	3(3, 0)	
Institutional				
29.	HUM100	English Comprehension and Composition	3(3, 0)	
30.	HUM102	Report Writing Skills	3(3, 0)	HUM100
31.	HUM103	Communication Skills	3(3, 0)	HUM100
32.	HUM110	Islamic Studies	3(3, 0)	
33.	HUM111	Pakistan Studies	3(3, 0)	
34.	MGT101	Introduction to Management	3(3, 0)	

List of Elective Courses - Telecommunication & Networking

Sr. No.	Course Code	Course Title	Credit Hours	Pre-requisite
1.	CSC201	Design and Analysis of Algorithms	3(3, 0)	
2.	CSC332	Network Security	3(3, 0)	
3.	CSC315	Web Technologies	4(3, 1)	
4.	CSC334	Distributed Computing	4(3, 1)	CSC141
5.	CSC345	Ubiquitous and Pervasive Computing	3(3, 0)	
6.	CSC357	Grid Services and Distributed Networking	3(3, 0)	
7.	CSC358	Wireless Sensor Networks	3(3, 0)	
8.	CSC421	Systems Programming	4(3, 1)	CSC141
9.	CSC426	Voice over IP and IMS	3(3, 0)	
10.	CSC431	ATM Systems in Telecommunications	3(3, 0)	CSC242
11.	CSC433	Converging Voice and Data Networks	3(3, 0)	CSC339
12.	CSC330	E-Commerce	4(3, 1)	
13.	CSC414	Application Development for Mobile Devices	4(3, 1)	
14.	CSC434	Information Theory and Coding	3(3, 0)	
15.	CSC435	Satellite Communication	3(3, 0)	CSC339
16.	CSC437	Fiber Optic Telecommunication	3(3, 0)	CSC242
17.	CSC439	Digital Switching	3(3, 0)	
18.	CSC444	Visual Programming	3(3, 0)	
19.	CSC461	Neural Networks	3(3, 0)	
20.	CSC472	Geographical Information Systems	3(3, 0)	
21.	CSC493	Telecommunication Project Management	3(3, 0)	CSC242

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List of Institutional Elective Courses

Sr. No.	Course Code	Course Title	Credit Hours	Pre-requisite
1.	HUM430	French	3(3, 0)	
2.	HUM431	German	3(3, 0)	
3.	HUM432	Arabic	3(3, 0)	
4.	HUM433	Persian	3(3, 0)	
5.	MGT210	Fundamentals of Marketing	3(3, 0)	
6.	HUM220	Introduction to Psychology	3(3, 0)	
7.	MGT300	Organizational Behavior	3(3, 0)	MGT101
8.	MGT350	Human Resource Management	3(3, 0)	MGT101
9.	MGT403	Entrepreneurship	3(3, 0)	MGT101
10.	MGT463	Productivity and Quality Management	3(3, 0)	MGT101
11.	MGT513	New Product Development	3(3, 0)	

Included.