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# COMSATS Institute of Information Technology

(Directorate of Academics)

No.CIIT-Dir(Acad)/Notif-270

February 03, 2010

## NOTIFICATION

Consequent upon approval of the competent authority / fora the Scheme of Studies for Bachelor of Science in Computer Science, BS (CS) effective from Spring 2010 is hereby SPII- FAIO - SPIO notified for the students enrolled in the CIIT.

Scheme of Studies

C	0	m	0	c	+	0	7"	1

Semes	ter i	Credit	D isito(a)
Course Code	Course Title	Hours	Prerequisite(s)
	Islamic Studies	3(3,0)	- 1
HUM110	English Comprehension and Composition	3(3, 0)	
HUM100	Electric Circuits Analysis I	4(3, 1)	
EEE121	Calculus and Analytic Geometry	3(3, 0)	A ST
MTH104	Introduction to Computers and Programming	4(3, 1)	
CSC103	introduction to comparison and	17(15, 2)	,

#### Semester 2

Course Code	Course Title	Credit	Prerequisite(s)
XXXX 6111	Pakistan Studies	3(3, 0)	
HUM111	Electronics I	4(3, 1)	EEE121
EEE231	Multivariable Calculus	.3(3, 0)	MTH104
MTH105	Discrete Structures	3(3, 0)	
CSC102	Report Writing Skills	3(3, 0)	HUM100
HUM102		4(3, 1)	CSC103
CSC241	Object Oriented Programming	20(18, 2)	

## Semester 3

Course Code	Course Title	Credit	Prerequisite(s)
	Communication Skills	3(3, 0)	HUM100
HUM103	Database Systems	4(3, 1)	CSC103
CSC271 EEE241	Digital Logic Design	4(3, 1)	CSC102
MTH242	Differential Equations	3(3,0)	MTH105
	Data Structures	4 (3 1)	CSC103
CSC211	Data Structures	18(15, 3)	

#### Semester 4

Semes Course Code	Course Title	Credit Hours	Prerequisite(s
000001	Software Engineering-I	3(3, 0)	
CSC291	Computer Organization and Assembly Language	4(3, 1)	CSC103
CSC221	Introduction to Management	3(3, 0)	
MGT101 MTH262	Statistics and Probability Theory	3(3, 0)	MTH105
MTH231	Linear Algebra		MTH105
CSC201	Design and Analysis of Algorithms	3 (3 0)	CSC103
CSCZU1	Design and Analysis of the	19(18, 1)	

Semester 5

1	Course Cada	Course Title	Credit Hours	Prerequisite(s)
-1	NAME AND POST OFFICE ADDRESS OF THE PARTY OF		3(2.1)	CSC103
1	CSC253	Computer Graphics	, , ,	



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		3(3 0)	CSC211
CSC322	Operating Systems Concepts		
	Software Engineering-II	-(-,-/	CSC291
CSC392		3(3, 0)	CSC221
EEE440 .	Computer Architecture	4 (4, 0)	
CSC339	Computer Communication & Networks		
000000		16(15, 1)	



Semester 6

Semes		Credit Hours	Prerequisite(s)
Course Code	Course Title	4(3, 1)	CSC103
CSC336	Web Engineering		CSC102
CSC312	Automata Theory	-(-,-/	050102
MGT131	Financial Accounting	3(3, 0)	
	Elective CS - I	3(3, 0)/4(3,1)	MTTION
MTH375	Numerical Computations	-(-,-)	MTH231
141111373		16-17(15, 1-2)	*

Semes	tor 7			
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		Credit Hours	Prerequisite(s)	
	Course Title		CSC103	
CSC462	Artificial Intelligence		CSC312	
CSCAAI	Compiler Construction	4(3,1)	C3C312	

Course Code	Course little	- 10 11	000100
The second secon	t .: C - in I Intelligence	3(2, 1)	CSC103
CSC462	Artificial Intelligence	4(3, 1)	CSC312
CSC441	Compiler Construction		C5C512
	Human Computer Interaction	3(3, 0)	
CSC456	Human Computer Interaction		
	Elective CS - II	3(3, 0)/4(3,1)	
000400**	Final Year Project (Part-I)	2(0, 2)	
CSC499**	Fillal Teal Project (Part-1)	15-16(11, 4-5)	

Semester 8

3(3, 0)	Prerequisite(s)
NAME AND ADDRESS OF THE PARTY O	
3(3, 0)	
3(3, 0)	
34-136(116,18-20)	
	4(0, 4) 13(9, 4) 34-136(116,18-20)

Grand Total: 134-136 Credit Hours

Note:

- In a semester system, courses are normally defined in terms of credit hours. Some courses have further subdivision into theory and lab work. One credit hour of theory is normally equal to one lecture hour in the class room per week per semester. One credit hour of lab work, however, is equivalent to three contact hours in the lab per week per semester.
- ii. Courses with prerequisites can only be registered if the prerequisite courses have been passed.
- iii. \*\* Project-I: Project is registered and is shown as IP for Student until the project is completed

## **Elective Courses**

For BS (CS)

More Courses may be added:

		Credit Hours	Prerequisite(s)
Course Code	Course Title	0.00.	110100
CSC302	Multimedia Authoring	3(3, 0)	
CSC303	Multimedia Documents and Publishing	3(3, 0)	
CSC304	Multimedia Entertainment and Gaming	3(3, 0)	
CSC304	Media Theory, DVD and Compositing	3(3, 0)	



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Elective: Institutional Courses More Courses may be added:

Courses may be added:	Credit Hours	Prerequisite(s)
Course little		MGT101
		MGT101
Entrepreneurship		
Productivity and Quality Management		MGT101
New Product Development		
	3(3, 0)	
	3(5, 0)	
	2 (2 0)	
French		
	3(3, 0)	
	3(3, 0)	
	Course Title Human Resource Management Entrepreneurship Productivity and Quality Management New Product Development Introduction to ICT Introduction to Psychology Foreign Languages French German Arabic Persian	Course Title         Credit Hours           Human Resource Management         3(3, 0)           Entrepreneurship         3(3, 0)           Productivity and Quality Management         3(3, 0)           New Product Development         3(3, 0)           Introduction to ICT         3(3, 0)           Introduction to Psychology         3(3, 0)           Foreign Languages         3(3, 0)           French         3(3, 0)           German         3(3, 0)           Arabic         3(3, 0)

Note: The above semester plan is for guidance only; a campus may offer courses according to their needs/resources, keeping in view the pre-requisite requirements.

(Dr Muhammad Azim)
Director Academics

### Distribution:

- 1. All Directors CIIT System
- 2. Dean Faculty of Information Sciences and Technology
- 3. Controller of Examinations, CIIT
- 4. Chairman, Department of Computer Science, CIIT
- 5. All HoDs / Incharges in the department of Computer Science
- 6. Additional Registrar (Academics)

### CC:

- i. Registrar CIIT
- ii. PS to Rector



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CSC308	Advanced Website Authoring	3(3, 0)	The state of the s
CSC310	Entertainment and Interactive Technologies	3(3, 0)	
CSC330	E-Commerce	4(3, 1)	- Frenches
CSC334	Distributed Computing	4(3, 1)	CSC103
CSC330	Digital Image Processing	3(3, 0)	
CSC332	Network Security	3(3, 0)	
CSC333	Applied Networking	3(1, 2)	CSC339
CSC536	Web Technologies and Programming	3(2, 1)	CSC103
CSC341	Network Programming	4(3, 1)	CSC103
CSC343	Network Design and Implementation	3(3, 0)	
CSC344	Wireless and Mobile Computing	3(3, 0)	
CSC345	Ubiquities and Pervasive Computing	3(3, 0)	
CSC350	Internet Protocols	3(3, 0)	
CSC352	Problem Solving Techniques	3(3, 0)	
CSC353	Information Systems Modeling and Design	3(3, 0)	
CSC355	Open Source Server Administration	3(3, 0)	
CSC357	Learning Management Systems	3(3, 0)	
CSC361	IS Physical Design and Implementation	4(3, 1)	
CSC373	Management Information Systems	3(2, 1)	- India
CSC402	E-Commerce Policy and Practices	3(3, 0)	1
CSC412	Cryptography	3(3, 0)	CSC339
CSC421	Systems Programming	3(3, 0)	CSC103
CSC442	Principles of Programming Languages	3(3, 0)	CSC241
CSC443	Scripting Languages	3(3, 0)	CSC336
CSC444	Visual Programming	3(3, 0)	CSC103
CSC445	Modern Programming Languages	3(3, 0)	CSC241
CSC446	Advanced Object Oriented Programming	3(3, 0)	CSC241
CSC451	Multimedia & Hypermedia System	3(3, 0)	CSC339
CSC452	Virtual Reality	3(3, 0)	CSC253
CSC454	Computer Animations	3(3, 0)	CSC253
CSC455	Computer Vision	3(3, 0)	CSC253
CSC461	Neural Networks	3(3, 0)	CSC462
CSC471	Distributed Database System	3(3, 0)	CSC271
CSC482	Computer Law	3(3, 0)	030271
CSC494	Software Project Management	3(3, 0)	CSC392
CSC495	Enterprise Resource Planning	3(3, 0)	C3C372
CSC496	Business Process Reengineering	3(3, 0),	CSC291
CSC536	Web Technologies and Programming	3(3, 0)	C3C291
CSC552	Virtual Reality for Entrepreneurship	3(3, 0)	
CSC559	Mobile Database Systems	3(3, 0)	
CSC571	Distributed Database Systems for Business	3(3, 0)	
CSC573	Business Management Information System		
CSC575	Business System Development	3(3, 0)	
CSC582	Legal Framework for IT businesses	3(3, 0) 3(3, 0)	
CSC593	Information Systems Engineering		
CSC595	Business Enterprise Resource Planning	3(3,0)	
CSC595	Software Requirement Engineering	3(3, 0)	
BIO310	Bio-Informatics-I	3(3, 0)	
DICOIG	DIO-IIIIOIIIIauc2-1	4(3, 1)	

