COMSATS Institute of Information Technology
Registrar Office, Principal Seat, Islamabad
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No: CIIT-Reg/Notif-668/12/992

July 3, 2012

NOTIFICATION

Scheme of Studies of Bachelor of Science (BS) in Biosciences

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 Biosciences program w.e.f Fall 2012 at CIIT system:

1. Minimum Duration:		04 Years
2. Minimum No. of Semesters:		08
3. No. of Credit Hours in each Semester:		12-19

4. **Course Work**	<u>Min No. of Courses</u>	<u>Min No. of Credit Hours</u>
i. Core Courses (List attached)	34	121
ii. Institutional Elective Courses (List attached)	04	12
Total No. of Courses of the Program:	38	
Total No. of Credit Hours of the Program:		133

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

This issues with approval of the Competent Authority.

Nadeem Uddin Qureshi
Additional Registrar

Encl: (3 pages including this page)

Distribution:
1. Dean Faculty of Science, CIIT.
2. Chairperson, Department of Biosciences, CIIT.
3. Incharge CIIT Islamabad Campus.
4. All HoDs Department of Biosciences, CIIT, Campuses.
5. Controller of Examinations, CIIT.
6. Incharge Examinations, CIIT Campuses.
CC:
1. PS to Rector
2. PA to Registrar

List of Core Courses

Serial No.	Course Code	Course Title	Cr. Hrs.	Pre-requisites
1.	BIO135	General Chemistry	4(3, 1)	
2.	BIO232	General Physiology	3(3, 0)	
3.	BIO233	Developmental Biology	4(3, 1)	
4.	BIO310	Introduction to Bioinformatics	4(3, 1)	BSC205
5.	BIO333	Statistical Methods in Biology	3(3, 0)	
6.	BIO345	Essential Techniques in Biochemistry and Molecular Biology	3(0, 3)	
7.	BIO346	Introduction to Genomics and Proteomics	3(3, 0)	BSC205
8.	BIO433	Biodiversity	3(3, 0)	
9.	BSC101	Zoology I	4(3, 1)	
10.	BSC102	Plant Sciences I	4(3, 1)	
11.	BSC200	Zoology II	4(3, 1)	BSC101
12.	BSC201	Plant Sciences II	4(3, 1)	BSC102
13.	BSC203	Biochemistry I	4(3, 1)	BIO135
14.	BSC204	Cellular Biology	4(3, 1)	
15.	BSC205	Introduction to Molecular Biology	3(3, 0)	BSC203
16.	BSC206	Introduction to Microbiology	4(3, 1)	
17.	BSC208	Essentials of Genetics	3(3, 0)	
18.	BSC234	Biochemistry II	3(3, 0)	BSC203
19.	BSC300	Environmental Biology	3(3, 0)	BSC206
20.	BSC302	Fundamentals of Biotechnology	3(3, 0)	BSC205
21.	BSC303	Principles of Immunology	2(2, 0)	BSC206
22.	BSC304	Evolution	3(3, 0)	
23.	BSC401	Principles of Virology	3(3, 0)	BSC206
24.	BSC402	Bioethics and Safety	3(3, 0)	
25.	BSC405	Research Project/Internship	12(0, 12)	
26.	BSC432	Introduction to Epidemiology and Clinical Trials	3(3, 0)	
27.	CSC101	Introduction to Computing	3(2, 1)	
28.	CSC141	Introduction to Computer Programming	4(3, 1)	CSC101
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.	MTH100	Mathematics I	3(3, 0)	

List of Institutional Elective Courses

July 03, 2012

Serial No.	Course Code	Course Title	Cr.Hrs.	Pre-requisite
1.	ECO102	Economics	3(3, 0)	
2.	ECO200	Introduction to Development Economics	3(3, 0)	
3.	ECO300	Engineering Economics	3(3, 0)	
4.	HUM200	Business Communication Workshop	3(3, 0)	HUM100
5.	HUM202	Creative Thinking and Decision Making	3(3, 0)	
6.	HUM220	Introduction to Psychology	3(3, 0)	
7.	HUM221	International Relations	3(3, 0)	
8.	HUM223	Introduction to Philosophy	3(3, 0)	
9.	HUM310	Islamic History	3(3, 0)	
10.	HUM320	Introduction to Sociology	3(3, 0)	
11.	HUM430	French	3(3, 0)	
12.	HUM431	German	3(3, 0)	
13.	HUM432	Arabic	3(3, 0)	
14.	HUM433	Persian	3(3, 0)	
15.	LAW300	Corporate Law	3(3, 0)	
16.	MGT100	Introduction to Business	3(3, 0)	
17.	MGT101	Introduction to Management	3(3, 0)	
18.	MGT131	Financial Accounting	3(3, 0)	
19.	MGT403	Entrepreneurship	3(3, 0)	MGT101
20.	*MGT461	Project Management	3(3, 0)	
21.	MGT463	Productivity and Quality Management	3(3, 0)	MGT101
22.	MGT513	New Product Development	3(3, 0)	

*No pre requisite course is required for the institutional elective course "MGT461 Project Management" for students of Bachelor of Science in Biosciences.