

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

No: CIIT-Reg/Notif-680/12/1004

July 3, 2012

NOTIFICATION

Scheme of Studies of Master of Science (MS) in Microbiology and Immunology

It is hereby notified that the Academic Council in its 13th meeting held on June 04, 2012 approved the following scheme of studies of Master of Science (MS) in Microbiology and Immunology program for session Fall 2012 only at CIIT system:

	<u>Minimum No. of Courses</u>	<u>Minimum No. of Credit Hours</u>
1. MS Course Work		
i. Core Courses (list attached)	02	08
ii. Elective Courses (list attached)	4-8	16
Total Credit Hours of course work		24
2. MS Thesis		06
3. Total Credit Hours of the Program		30

Note:

All Rules and Regulations approved by BASAR from time to time shall be applicable

This issue with approval of the Competent Authority.


Nadeem Uddin Qureshi
Additional Registrar

Encl: (3 pages in all including this page)

Distribution:

1. Dean Faculty of Science, CIIT.
2. Chairperson, Department of Biosciences, CIIT.
3. Incharge, CIIT Islamabad Campus.
4. Incharge Academics, CIIT Campuses.
5. All HoDs Department of Biosciences, CIIT, Campuses.
6. Controller of Examinations, CIIT.
7. Incharge Examinations, CIIT Campuses.

CC:

1. PS to Rector
2. PA to Registrar

List of Core Courses

Course Code	Course Title	Credits Hours
BIO601	Advances in Molecular Biology	4(4, 0)
BIO602	Advances in Microbiology	4(4, 0)

Thesis

Course Code	Course Title	Credits Hours
BIO800	Thesis	6

List of Elective Courses

Course Code	Course Title	Credits Hours
BIO603	Molecular Genetics	4(4, 0)
BIO605	Bioinformatics	4(3, 1)
BIO607	Essentials of Virology	4(4, 0)
BTY664	Environmental Biotechnology	3(3, 0)
BTY666	Medical Biotechnology	3(3, 0)
BTY668	Industrial Biotechnology	3(3, 0)
ENV672	Molecular and Microbial Genetics	3(3, 0)
BIO707	Recombinant DNA Technology	4(4, 0)
BIO709	Report Writing and Seminar	4(4, 0)
BIO710	Research Techniques	4(2, 2)
BIO713	Medical Microbiology	4(3, 1)
BIO714	Strategies of Parasite infection, Survival and Transmission	4(4, 0)
BIO715	General Virology	4(4, 0)
BIO716	Fundamentals of Microbial Genomics and Proteomics	4(4, 0)
BIO717	Advanced Topics in Microbiology	4(4, 0)
BIO718	Molecular and Cellular Immunology	4(4, 0)
BIO719	Environmental Microbiology	4(4, 0)
BIO720	Bioremediation and Biodegradation	4(3, 1)
BIO721	Industrial Microbiology	4(4, 0)
BIO722	General Mycology	4(4, 0)
BIO740	Concepts in Systems Biology	4(4, 0)
BIO742	Principles and Applications of Proteomics	4(3, 1)
BIO744	Systems Biology of Microorganisms	2(1, 1)
BIO750	Molecular Biology of Animal Viruses	4(4, 0)
BIO751	Plant Virology	4(4, 0)
BIO752	Virus-based Gene Therapy and DNA Vaccines	4(4, 0)

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BIO753	Advanced Topics in Virology	2(2, 0)
BIO754	Tissue Culture and its Applications	2(1, 1)
BIO755	Epigenetics	3(3, 0)
BIO761	Cell Signaling	2(2, 0)
BIO762	Biomolecular Modeling	3(2, 1)
BIO801	Seminar	1(1, 0)
BIO802	The History and Philosophy of Science	1(1, 0)
BIO803	The Origin and Evolution of Life on Earth	1(1, 0)

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