

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

No: CIIT-Reg/Notif- 678/12/1002

July 3, 2012

NOTIFICATION

Scheme of Studies of Master of Science (MS) in Biochemistry and Molecular Biology

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 Biochemistry and Molecular Biology program for session Fall 2012 only at CIIT system:

| | <u>Minimum No. of Courses</u> | <u>Minimum 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: (2 pages in total 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) |
| BIO603 | Molecular Genetics | 4(4, 0) |

Thesis

| Course Code | Course Title | Credits Hours |
|-------------|--------------|---------------|
| BIO800 | Thesis | 6 |

List of Elective Courses

| Course Code | Course Title | Credits Hours |
|-------------|--|---------------|
| BIO602 | Advances in Microbiology | 4(4, 0) |
| BIO604 | Developmental Biology | 4(4, 0) |
| BIO605 | Bioinformatics | 4(3, 1) |
| BIO701 | Clinical Biochemistry | 4(4, 0) |
| BIO702 | Gene Regulation and Expression | 4(4, 0) |
| BIO703 | Molecular Immunology | 4(4, 0) |
| BIO704 | Trends in Genomics | 4(4, 0) |
| BIO705 | Nucleic Acids | 4(4, 0) |
| BIO706 | Protein Chemistry | 4(4, 0) |
| BIO707 | Recombinant DNA Technology | 4(4, 0) |
| BIO708 | Advances in Molecular Genetics | 4(4, 0) |
| BIO709 | Report Writing and Seminar | 4(4, 0) |
| BIO710 | Research Techniques | 4(2, 2) |
| BIO711 | Biochemistry and Physiology of Vascular Diseases | 4(4, 0) |
| BIO750 | Molecular Biology of Animal Viruses | 4(4, 0) |
| BIO752 | Virus-based Gene Therapy and DNA Vaccines | 4(4, 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) |

Indira