

**DEPARTMENT OF BIOTECHNOLOGY
JAMIA MILLIA ISLAMIA
NEW DELHI-110025**

Minutes of the Meeting of the Board of Studies, Department of Biotechnology held on 9th,10th & 11th, September 2015 from 10.a.m.

An meeting of the BOS, Department of Biotechnology was held on 9/9/2015,10/9/2015 & 11/9/2015, in the office of the undersigned. Followings members were present:

1	Professor Sharif Ahmad, Dean	Member
2.	Dr. Mohammad Husain	Chairman
3.	Professor Suman Kumar Dhar	Member
4.	Professor Shafiq Ahmad Ansari	Member
5.	Dr. M. Irfan Qureshi	Member
6.	Dr. Kapil Dev	Member
7.	Dr. Meetu Gupta	Member
8.	Dr. Sadaf Fatima	Member
9.	Dr. Abdur Rub	Member

Agenda item No. 1. Confirmation of the last minutes

The Minutes of the last meetings were confirmed

Agenda Item No. 2. Qualification & Specialization for the Post of Associate Professor & Assistant Professor

Associate Professor ((02):

Essential Qualification :

- i) M.Sc. in Biotechnology/any area of Life Sciences from a recognized University/Institute.
- ii) Ph.D. in any area of Modern Biology

Desirable Qualification: Proven record of research as evidenced by publication in the area of Genetics and Genomics/Molecular Biology/Gene Expression/Molecular cloning/Drug design and delivery/Cancer Biology/Industrial biotechnology

Note: The other essential qualifications as per UGC guideline will remain the same.

Assistant Professor (01):

Essential Qualification: M.Sc. in Biotechnology/any advance area of Biology with NET
And/or Ph.D. as per UGC regulations.

Desirable Qualification: Research Experience as evidenced by publication in the area of Bioprocess and Fermentation Technology/Cancer Biology/Biochemical Engineering/Industrial Biotechnology.

Note: The other essential qualifications as per UGC guidelines will remain the same.

Agenda Item No. 3 Downgrading of Posts of Professor into Associate Professor

In a discussion of HOD with Honorable Vice Chancellor on two vacant Positions of Professor in the Department of Biotechnology, it was brought to his kind notice that sufficient time lapsed in repeated advertisement and in the selection committee held in May, 2013 in which no suitable candidate was found. The honorable Vice Chancellor agreed that the two posts of Professors may be downgraded to Associate Professors after due discussion and approval by the BOS of Department of Biotechnology. The matter was brought in the BOS and discussed at length. The BOS members viewed it as a better step because the Associate Professor will have longer stay in the Department in terms of career, duties and contribution in a new and growing department. The BOS unanimously approved the downgrading of the above two Posts of Professors into two Associate Professors.

Item No. 4 Introduction of CBCS scheme for postgraduate & undergraduate courses

The BOS discussed the introduction of CBCS curriculum and approved both Undergraduate and Postgraduate courses of Department of Biotechnology w.e.f. the current session i.e. 2015-2016.

Agenda Item NO. 5. Nomination of faculty members for different committees of the Department.

The BOS suggested and authorized that the HOD should call Departmental meetings and nominate member(s) for various committees/works for smooth functioning of the department as and when necessary.

Agenda Item No. 6 Ph.D registration and its Agenda related matters

(i) The BOS approved the minor changes in the Ph.D. Entrance test syllabus.

(ii) The BOS interviewed the applicants for admission to Ph.D. in Biotechnology and approved the Provisional admission to Ph.D. program in Biotechnology for the session 2015-2016. (List enclosed). Two vacant positions of Ph.D. under Dr Abdur Rub could not be included in advertisement, therefore, the BOS accepted the request made by Dr. Abdur Rub to select two candidates from the merit list in the greater interest of the student.

(iii) The BOS approved the extension of Non-NET fellowship for one additional year (4th year) of the following Ph.D. Scholars in the Department of Biotechnology, JMI. However, the BOS suggested submitting the report along with the request for extension of Non-NET fellowship.

1. Mr. Mohammad Affan Baig
2. Ms. Tooba Naz Shamsi
3. Ms. Chandana Pandey
4. Ms. Deepti Bhatt

Department of Biotechnology

COURSE STRUCTURE AT A GLANCE

B.Sc. Biotechnology-Semester and Choice Based Credit System

Jamia Millia Islamia, New Delhi-110025

FIRST YEAR

SEMESTER I					SEMESTER II				
N	Papers	Code	Credit	MM	N	Papers	Code	Credit	MM
1	Biochemistry & Metabolism	BBT-101	4	100	1	Mammalian Physiology	BBT-201	4	100
2	Cell Biology	BBT-102	4	100	2	Plant Anatomy & Physiology	BBT-202	4	100
3	Plant Diversity-I	BBT-103	4	100	3	Animal Diversity-I	BBT-203	4	100
4	Biotechnology & Human Welfare (CBCE)	BBT-104	4	100	4	Bioethics & Biosafety (CBCE)	BBT-204	4	100
5	Lab Course-I	BBT-105	4	100	5	Lab Course-II	BBT-205	4	100

SECOND YEAR

SEMESTER III					SEMESTER IV				
N	Papers	Code	Credit	MM	N	Papers	Code	Credit	MM
1	Genetics	BBT-301	4	100	1	Gen Microbiol.	BBT-401	4	100
2	Mol. Biology	BBT-302	4	100	2	Immunology	BBT-402	4	100
3	Chemistry-I	BBT-303	4	100	3	Chemistry-II	BBT-403	4	100
4	Plant Divi-II	BBT-304	4	100	4	Animal Divi-II	BBT-404	4	100
5	Med. Biotech (AECC)	BBT-305	4	100	5	Dev. Biology (CBCE)	BBT-405	4	100
6	Lab Course-III	BBT-306	4	100	6	Lab Course-IV	BBT-406	4	100

THIRD YEAR

SEMESTER V					SEMESTER VI				
N	Papers	Code	Credit	MM	N	Papers	Code	Credit	MM
1	Bioprocess Tech	BBT-501	4	100	1	Bioanalytical Tools	BBT-601	4	100
2	rDNA Tech. (CBCE)	BBT-502	4	100	2	Animal Biotech	BBT-602	4	100
3	Plant Biotech	BBT-503	4	100	3	Env. Biotech	BBT-603	4	100
4	Bioinformatics	BBT-504	4	100	4	Biostatistics	BBT-604	4	100
5	Essent. Maths	BBT-505	4	100	5	Enzymology (SEC)	BBT-605	4	100
6	Lab Course-V	BBT-506	4	100	6	Lab Course-VI	BBT-606	4	100

Course Structure at a Glance

M.Sc. Biotechnology

(4 Semester PG Degree Course)

(Choice Based Credit System)

Department of Biotechnology

Jamia Millia Islamia, New Delhi

Semester I			
Paper Code	Paper Title	Maximum Marks	Credits
MBT 101	Molecular Biology	100	4
MBT 102	Cell Biology	100	4
MBT 103	Biochemistry and Biophysics	100	4
MBT 104	Genetics (CBCE)	100	4
MBT 105	Immunology	100	4
MBT 106	Lab Course-I	100	4

Semester II			
Paper Code	Paper Title	Maximum Marks	Credits
MBT 201	Microbiology	100	4
MBT 202	Metabolism and Enzymology	100	4
MBT 203	Animal Biotechnology	100	4
MBT 204	Genetic Engineering	100	4
MBT 205	Cellular and Molecular Physiology (CBCE)	100	4
MBT 206	Modern (-Omics) Technologies (SEC)	100	4

Semester II			
MBT 207	Lab Course-II	100	4
MBT 208	Seminar-II	25	

Semester III			
Paper Code	Paper Title	Maximum Marks	Credits
MBT 301	Bioprocess Engineering and Fermentation Technology	100	4
MBT 302	Plant Biotechnology	100	4
MBT 303	Environmental Biotechnology	100	4
MBT 304	Biostatistics and Bioinformatics	100	4
MBT 305	Medical Biotechnology and Mol. Medicine (CBCE)	100	4
MBT 306	IPR, Bioethics and Entrepreneurship (AECC)	100	4
MBT 307	Lab Course- III	100	4
MBT 308	Seminar III	25	

Semester IV			
Paper Code	Paper Title	Maximum Marks	Credits
MBT 401	Research Project	400	16
MBT 402	Seminar IV	100	4