

**Institute of Applied Sciences & Humanities  
Department of Biotechnology**

**Agenda for 7<sup>th</sup> Meeting of Board of Studies**

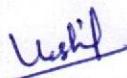
Date- 10-06-2017

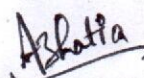
Time- 11:00 AM

Venue- Chamber of HOD Biotechnology, GLAIPS, Second Floor VI Block

**Agenda Items-**

1. Approval and Confirmation of the minutes of last meeting.
2. Approval of modified syllabi of B.Sc. (Hons.) Biotechnology, M.Sc. (Biotechnology) and M.Sc. (Microbiology & Immunology) programs.
3. Approval of courses imparting employability/entrepreneurship/skill development in the B.Sc. (Hons.) Biotechnology, M.Sc. (Biotechnology) and M.Sc. (Microbiology & Immunology) programs.
4. To consider and approve introduction of new courses in the B.Sc. (Hons.) Biotechnology, M.Sc. (Biotechnology) and M.Sc. (Microbiology & Immunology) programs.
5. Any agenda with permission of the chair.

  
(Dr. Vishal Khandelwal & Dr. Alok Bharadwaj)  
Secretary

  
(Prof. A.K. Bhatia)  
Chairman



**Institute of Applied Sciences & Humanities  
Department of Biotechnology**

**Minutes of the 7<sup>th</sup> Meeting of Board of Studies**

Date- 8.07.2017

Time- 11:00 AM

Venue- Chamber of HOD Biotechnology, GLAIPS, Second Floor VI Block

**Members Present-**

1. Prof. A.K. Bhatia, HOD & Chairman BOS
2. Dr. Uttampati, Prof & Dean, Dept. of Biotechnology, JNU Delhi
3. Dr. A.K.Tiwari, HOD, Biological Standarization, IVRI Bareilly
4. Mr. Vishal Khandelwal, Assistant Professor, Member & Secretary BOS Biotechnology
5. Dr. AnjnaGoel, Associate Professor, Member BOS
6. Dr. Alok Bhardwaj, Assistant Professor, Member & Secretary BOS Microbiology
7. Dr. Rama Sharma, Assistant Professor, Member BOS
8. Mr. Aditya Saxena, Assistant Professor, Member BOS
9. Mr. Nitin Wahi, Assistant Professor, Member BOS

**Sub.: Meeting of Board of Studies B.Sc. (Hons.) Biotechnology, M.Sc. (Biotechnology) and M.Sc. Microbiology & Immunology).**

Sir,

It is to inform you that the meeting of Board of Studies in the subject of B.Sc. (Hons.) Biotechnology and M.Sc. (Biotechnology) and M.Sc. (Microbiology & Immunology) has been fixed on 8<sup>th</sup> July, 2017 at 11:00 am in the Chamber of undersigned.

The agenda in meeting will include:

1. To consider and approve the minutes of last meeting of BOS.
2. To consider & approve the modified syllabi of B.Sc. (Hons.) Biotechnology, M.Sc. (Biotechnology) and M.Sc. (Microbiology & Immunology) programs.
3. Approval of courses imparting employability/entrepreneurship/skill development in the B.Sc. (Hons.) Biotechnology, M.Sc. (Biotechnology) and M.Sc. (Microbiology & Immunology) programs.
4. To consider and approve introduction of new courses in the B.Sc. (Hons.) Biotechnology, M.Sc. (Biotechnology) and M.Sc. (Microbiology & Immunology) programs.
5. Any agenda with permission of chair.



## **Discussion & Suggestions:**

### **Agenda No. 1:**

Minutes of last meeting has been approved and confirmed

### **Agenda No. 2:**

**Approval of modified syllabi of B.Sc. (Hons.) Biotechnology, M.Sc. (Biotechnology) and M.Sc. (Microbiology & Immunology).**

On the basis of various feedbacks received from different stakeholders (Employer, Student, Faculty and Alumni) the revision/up gradation/modification in syllabus of existing courses in various programs is proposed as follows:

<b>Programme</b>	<b>No. of Courses under consideration for revision</b>	<b>Name of the Courses under consideration for revision</b>
B.Sc. (H) Biotechnology	5	<ul style="list-style-type: none"><li>• Computer Fundamental and Applications</li><li>• Computer Applications in Biotechnology Lab</li><li>• Biostatistics</li><li>• Chemistry-II</li><li>• Chemistry-III</li></ul>
M.Sc.(Biotechnology)	2	<ul style="list-style-type: none"><li>• IPR, Patent, Trademark and Bioethics</li><li>• Advanced Biostatistics</li></ul>
M.Sc. (Microbiology & Immunology)	2	<ul style="list-style-type: none"><li>• IPR, Patent, Trademark and Bioethics</li><li>• Advanced Biostatistics</li></ul>

The member considered and approved the same.

Syllabi of above courses are enclosed as Annexure-I.

### **Agenda No. 3:**

**Approval of courses imparting employability/entrepreneurship/skill development in the B.Sc. (Hons.) Biotechnology, M.Sc. (Biotechnology) and M.Sc. (Microbiology & Immunology) programs.**

Members considered and approve the same. Details enclosed as Annexure II.

### **Agenda No. 4**

**To consider and approve introduction of new courses in the B.Sc. (Hons.) Biotechnology, M.Sc. (Biotechnology) and M.Sc. (Microbiology & Immunology) programs.**

On the basis of feedback obtained from various stakeholders (Student, Faculty, Employer and Alumni) department presented detail of new courses to be introduced. After thorough discussion BOS approved the same. Details enclosed as Annexure III.



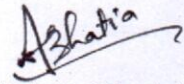
**Agenda No. 5**

**Any agenda with permission of the chair.**

The meeting ended with the vote of thanks to the chair.



(Dr. Vishal Khandelwal & Dr. Alok Bharadwaj)  
Secretary



(Prof. A.K. Bhatia)  
Chairman



**List of courses having focus on employability/ entrepreneurship/ skill development offered by the Department (2017-18)**

S.No.	Name of the Course	Focus on Employability/ Entrepreneurship/ Skill
1	Computers Fundamentals and applications	Skill development
2	Chemistry- I	Employability
3	Biostatistics	Skill development
4	Cell Biology and Environmental Science Lab	Skill development
5	Computer Fundamentals Practical	Skill development
6	Chemistry -I Lab	Employability, Skill development
7	Human Physiology	Employability
8	Developmental Biology	Employability
9	Chemistry – II	Employability
10	Biomolecules	Skill development
11	Plant Science – I	Skill development
12	English In Practice I	Employability
13	Chemistry-II Lab	Employability
14	Biomolecules, Human Physiology and Developmental Biology Lab	Skill development
15	Plant Science -I Lab	Skill development
16	Genetics	Employability
17	Molecular Biology	Employability, Skill development
18	Evolution and Ecology	Employability
19	Chemistry – III	Employability
20	Plant Science - II	Employability
21	Genetics and Molecular Biology Lab	Skill development
22	Chemistry – III Lab	Skill development
23	Plant Science -II and Evolution & Ecology Lab	Skill development
24	Microbiology	Employability, Skill development
25	Environmental Biotechnology	Employability, Skill development
26	Fermentation Technology	Employability, Skill development
27	Bio – Informatics	Employability, Skill development
28	Instrumentation and Bio - Analytical Techniques	Skill development
29	Microbiology Lab	Employability, Skill development
30	Environmental Biotechnology and Fermentation Technology Lab	Skill development
31	Bio-Informatics Lab	Skill development
32	Instrumentation and Bio - Analytical Techniques Lab	Employability, Skill development
33	Biochemistry	Employability
34	Plant Biotechnology	Employability
35	Food and Industrial Biotechnology	Employability, Skill development
36	Immunology	Employability
37	Recombinant DNA Technology (RDT) Lab	Employability, Skill development
38	Biochemistry Lab	Employability, Skill development
39	Plant Biotechnology & Food and Industrial Biotechnology Lab	Employability, Skill development
40	Immunology Lab	Employability, Skill development
41	Recombinant DNA Technology (RDT) Lab	Employability, Skill development
42	Animal Biotechnology	Employability
43	Genomics and Proteomics	Employability
44	Role of Biotechnology in Forensic science	Employability, Skill development
45	IPR, Biosafety and Bioethics	Entrepreneurship, Skill development

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46	Enzymology	Employability
47	Clinical Microbiology	Employability, Skill development
48	Drug Discovery & Development	Entrepreneurship, Skill development
49	Stem Cell Technology	Entrepreneurship, Skill development
50	Animal Biotechnology Lab	Employability, Skill development
51	Genomics and Proteomics Lab	Employability, Skill development
52	Role of Biotechnology in Forensic science Lab	Employability, Skill development
53	Enzymology Lab	Employability, Skill development
54	Clinical Microbiology Lab	Employability, Skill development
55	Project Training	Skill development
56	Advanced Biostatistics	Skill development
57	Biochemistry	Employability
58	Bioinformatics	Employability, Skill development
59	Biophysical Techniques	Employability, Skill development
60	Biostatistics & Biochemistry Lab	Employability, Skill development
61	Bioinformatics Lab	Employability, Skill development
62	Biophysical Techniques & Cell Biology Lab	Employability, Skill development
63	Microbiology	Employability
64	Immunology	Employability
65	Genetics & Molecular Biology	Employability, Skill development
66	Environmental Biotechnology	Employability, Skill development
67	Microbiology Lab	Employability, Skill development
68	Immunology Lab	Employability, Skill development
69	Genetics and Molecular Biology Lab	Employability, Skill development
70	Plant Biotechnology	Employability
71	Animal Biotechnology	Employability
72	Bioprocess Engineering & Fermentation Technology	Employability, Skill development
73	RDT, Genomics & Proteomics	Employability, Skill development
74	Nanobiotechnology	Employability
75	Enzyme Technology	Employability
76	Clinical Research in Medicinal Plants	Entrepreneurship, Skill development
77	Clinical Immunology	Entrepreneurship, Skill development
78	Nutritional Biochemistry	Employability, Skill development
79	Drug Designing & Development	Entrepreneurship, Skill development
80	IPR, Biosafety and Bioethics	Entrepreneurship, Skill development
81	Plant Biotechnology and Bioprocess Engineering & Fermentation Technology Lab	Employability, Skill development
82	Animal Biotechnology and Environmental Biotechnology Lab	Employability, Skill development
83	Nanobiotechnology Lab	Employability, Skill development
84	Enzyme Technology Lab	Employability, Skill development
85	Clinical Research in Medicinal Plants Lab	Entrepreneurship, Skill development
86	Clinical Immunology Lab	Entrepreneurship, Skill development
87	Project Work	Skill development
88	General Microbiology	Employability
89	General Microbiology & Biostatistics Lab	Employability, Skill development
90	Bioinformatics Lab	Employability, Skill development
91	Systemic Bacteriology and Mycology	Employability
92	Systemic Virology	Employability
93	Bacteriology & Mycology Lab	Employability, Skill development
94	Immunology Lab	Employability, Skill development
95	Genetics, Molecular Biology and Virology Lab	Employability, Skill development

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96	Fermentation Technology and Industrial Microbiology	Entrepreneurship, Skill development
97	Food, Dairy and Agricultural Microbiology	Employability, Skill development
98	Advanced Immunology	Employability
99	Environmental Microbiology	Employability, Skill development
100	Animal Cell Culture	Employability
101	Fermentation Technology, RDT & Genomics & Proteomics Lab	Employability, Skill development
102	Food, Dairy, Agricultural Microbiology & Advanced Immunology Lab	Entrepreneurship, Skill development
103	Environmental Microbiology Lab	Employability, Skill development
104	Animal Cell Culture Lab	Employability, Skill development
105	IPR, Patent, Trademark and Bioethics	Entrepreneurship, Skill development
106	Project Work	Skill development
107	Research Methodology	Employability, Skill development
108	Bioinformatics & Instrumentation	Employability, Skill development
109	Biological Chemistry	Employability

*Abhatia*

