



# AMITY UNIVERSITY

MADHYA PRADESH

(Established by Ritand Balved Education Foundation)

Date: 24 /01 /2020

## BOARD OF STUDIES ( Biotechnology)

### MINUTES OF THE MEETING

( 5 Pages Only)

1. A meeting of board of studies of Biotechnology, Amity Institute of Biotechnology, Amity University Madhya Pradesh was held on 24<sup>th</sup> January 2020 at 1200 hrs at AUMP, under the Chairmanship of Prof. (Dr.) R.S. Tomar, Director AIB and Dean (Academics). The following members attended the meeting:-

- (a) **Chairman:** Prof. (Dr.) R.S. Tomar  
Director AIB and Dean (Academics)  
Amity University Madhya Pradesh, Maharjpur, Gwalior
- (b) **Member**
  - i) **Prof (Dr.) G.B.K.S. Prasad (External)**  
Professor, Biochemistry,  
Coordinator, Centre for Studies in Food Technology,  
Jiwaji University Gwalior
  - ii) **Prof (Dr.) Vikas Shrivastava**  
Professor, Amity Institute of Biotechnology,  
Amity University Madhya Pradesh, Maharjpur, Gwalior
  - iii) **Dr.Raghvendra Kumar Mishra**  
Associate Professor, Amity Institute of Biotechnology,  
Amity University Madhya Pradesh, Maharjpur, Gwalior

### 2. Agenda for the BoS meeting 2020:

1. Approval of syllabi of B.Sc.(H)Biotechnology for the batch 2020-23 and B. Tech Biotechnology batch 2020-24.
2. Approval of syllabi of M.Sc.(Biotechnology) for the batch 2020-22 and M. Tech (Biotechnology) batch 2020-22.
3. Approval of syllabi of B.Sc (Hons).-M.Sc.(Biotechnology) Dual Degree for the batch 2020-25.
4. Approval of syllabi of B.Sc.(Biology) for the batch 2020-23.

Prof (Dr.) R. S. Tomar  
Director, Amity Institute of Biotechnology  
Amity University Madhya Pradesh  
Maharajpur, Gwalior 474006

5. Approval of syllabi of Ph.D. course work of Ph.D. in Biotechnology for the batch 2020-2021.
6. Approval of syllabi of minor tracks in Biotechnology: Biotechnology Management and Conservation Biology for the batch 2020-2023.
7. Any other point with the permission of Chairman of the Board of studies.

3. Recommendations.

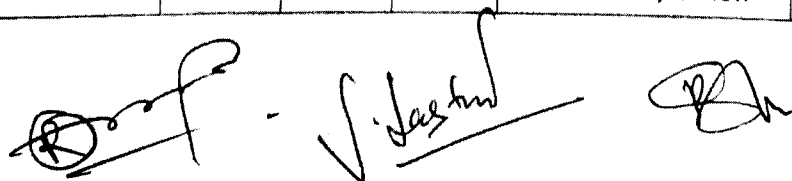
The BoS recommends that:-

- (a) Course BTB 304: Topic Nucleic acid structure & Function should be included in module I in view of basic understating in the field.
- (b) Course BSB 506: This paper is clubbed with BSB 302 with increase in credit (3 to 4) to reduce the courses.
- (c) Course BSB 503: This paper is clubbed with BSB 403 with increase in credit (3 to 4) to reduce the courses.
- (d) Course BSB 504: Code changed to BSB 503 due to shifting of courses.
- (e) Course BSB 505: Code changed to BSB 504 due to shifting of courses.
- (f) Course BSB 602: Topics: Introduction to industrially important microbes added in Module I and Topic: microbial fermentative products, food products from microbes (Dairy &SCP etc) in module III to make the course more comprehensible.
- (g) Course MSB 206: Whole course content is rearranged to make the course more comprehensible.
- (h) Course MSB 303: This paper is shifted to elective papers with new code as MSB 305.
- (i) Course MSB 304: Code changed to MSB 303 due to shifting of courses.
- (j) Course MSB 305: Code changed to MSB 304 due to shifting of courses.
- (k) Course MTB 206: Whole course content is rearranged to make the course more comprehensible.
- (l) Course PhDBT 101: Code changed to PRM 101 as per new nomenclature.
- (m) Course RPE 102: New course introduced as per the guideline of UGC.
- (n) Course PhDBT 104: Code changed to ROL 103 as per new nomenclature.
- (o) Course PhDBT 102: Code changed to PBT 104 as per new nomenclature.
- (p) Course PhDBT 103: Code changed to PBT 105 as per new nomenclature.
- (q) Course PhDBT 105: Code changed to PBT 106 as per new nomenclature.
- (r) Course PhDBT 106: Code changed to PBT 107 as per new nomenclature.
- (s) Course PhDBT 107: Code changed to PBT 108 as per new nomenclature.
- (t) Course PhDBT 108: Code changed to PBT 109 as per new nomenclature.
- (u) Course PhDBT 109: Code changed to PBT 110 as per new nomenclature.
- (v) Course PhDBT 111: Code changed to PBT 112 as per new nomenclature.

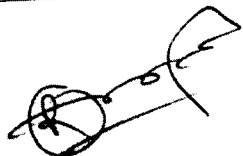
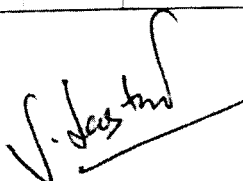

- (w) Course PhDBT 112: Code changed to PBT 113 as per new nomenclature.
- (x) Course PhDBT 113: Code changed to PBT 114 as per new nomenclature.
- (y) Syllabi of B.Sc. (H) Biotechnology for the batch 2020-23 and B.Tech Biotechnology batch 2020-24 are recommended for approval with above mentioned changes.
- (z) Syllabi of M.Sc. (Biotechnology) for the batch 2020-22 are recommended for approval with above mentioned changes.
- (aa) Syllabi of M.Tech (Biotechnology) for the batch 2020-22 are recommended for approval with above mentioned changes.
- (bb) Syllabi of Ph.D. course work of Ph.D. In Biotechnology for the batch 2020-21 is recommended for approval with above mentioned changes.
- (cc) Syllabi of minor tracks in Biotechnology: Biotechnology Management and Conservation Biology followed in batch 2019-22 are recommended for batch 2020-2023 without any change.
- (dd) Syllabi of B.Sc (Hons)-M.Sc.(Biotechnology) Dual Degree for the batch 2020-25 is recommended for approval.
- (cc) Syllabi of B.Sc.(Biology) for the batch 2020-23 is recommended for approval.

4. Summary of changes is given below:-

Current Syllabus					Proposed Changes/Modifications (addition/deletion in the Syllabus)	New Course Code	No. of Credits
Sr. No.	Course Title	Module of the syllabus	Old Course Code	No. of Credits			
<b>B.Tech Biotechnology</b>							
1.	Molecular Biology	III	BTB 304	04	Topic: Nucleic acid structure & Function	BTB 304	04
<b>B.Sc. (H) Biotechnology</b>							
1.	Microbial Technology	V	BSB 506	03	This paper is clubbed with BSB 302, In view of this, credits should be increased from 3 to 4.	BSB 302	04
2.	Immunotechnology	V	BSB 503	03	This paper is clubbed with BSB 403, In view	BSB 403	04

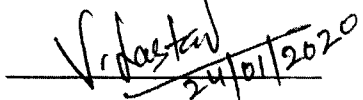


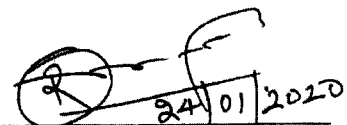
					of this, credits should be increased from 3 to 4.		
3	Genomics & Proteomics	V	BSB 504	03	Code changed due to shifting of courses	BSB 503	03
4	Recombinant DNA Technology	V	BSB 505	03	Code changed due to shifting of courses	BSB 504	03
5	Industrial Biology	VI	BSB 602	04	Topics: Introduction to industrially important microbes added in Module I and topic: microbial fermentative products, food products from microbes (Dairy & SCP etc) in module III.	BSB 602	04
<b>M.Sc. Biotechnology</b>							
1.	Environmental Biotechnology		MSB 206	03	Whole course content is rearranged	MSB 206	03
2	Drug Design & Development		MSB 303	03	This paper is shifted to elective papers with New code.	MSB 305	03
3	Advanced Animal Biotechnology		MSB 304	03	Code changed due to shifting of paper	MSB 303	03
4	Advanced Plant Biotechnology		MSB 305	03	Code changed due to shifting of paper	MSB 304	03
<b>M.Tech. Biotechnology</b>							
1	Environmental Biotechnology		MTB 206	03	Whole course content is rearranged	MTB 206	03
<b>Ph.D. Biotechnology</b>							
1	Research Methodology		PhDBT 101	4	Code changed as per new nomenclature	PRM 101	4
2	Research and Publication Ethics		RPE 102	2	New Course introduced	RPE 102	2
3	Review of Literature		PhDBT	2	Code changed as per	ROL 103	2

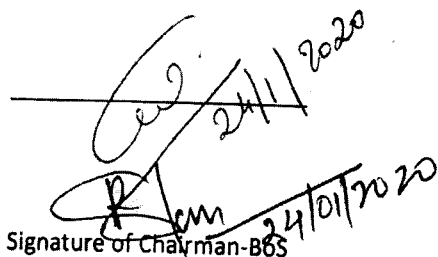




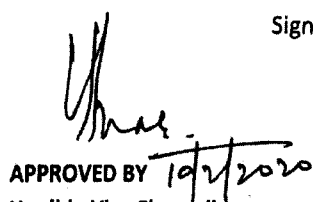
		104		new nomenclature		
4	Genomics and Proteomics	PhDBT 102	4	Code changed as per new nomenclature	PBT 104	4
5	IPR, Biosafety and Bioethics	PhDBT 103	3	Code changed as per new nomenclature	PBT 105	4
6	Instrumentation in Biotechnology	PhDBT 105	4	Code changed as per new nomenclature	PBT 106	4
7	Enzymology and Enzyme Technology	PhDBT 106	3	Code changed as per new nomenclature	PBT 107	4
8	Immunology and Immunotechnology	PhDBT 107	3	Code changed as per new nomenclature	PBT 108	4
9	Environmental Biotechnology	PhDBT 108	3	Code changed as per new nomenclature	PBT 109	4
10	Advanced Biochemistry	PhDBT 109	3	Code changed as per new nomenclature	PBT 110	4
11	Advanced Microbial Technology	PhDBT 110	3	Code changed as per new nomenclature	PBT 111	4
12	Advanced Molecular Biology	PhDBT 111	4	Code changed as per new nomenclature	PBT 112	4
13	Bioprocess Technology	PhDBT 112	4	Code changed as per new nomenclature	PBT 113	4
14	Advanced Plant Biotechnology	PhDBT 113	3	Code changed as per new nomenclature	PBT 114	4

Signature of Members

  
24/01/2020

  
24/01/2020

  
24/01/2020  
Signature of Chairman-BBS

  
APPROVED BY 19/1/2020  
Hon'ble Vice Chancellor  
AUMP, Gwalior



Date: 30/01/2020

**BOARD OF STUDIES (DEPARTMENT OF ENVIRONMENTAL SCIENCE)**  
**MINUTES OF THE MEETING**

1. A meeting of Board of Studies of Department of Environmental Science, Amity University Madhya Pradesh was held on 30<sup>th</sup> January 2020 at 1130 hrs. at AUMP, under the Chairmanship of Prof. (Dr.) Kuldip Dwivedi HOD, Environmental Sciences. The following members attended the meeting: -


(a) **Chairman:** Prof. (Dr.) Kuldip Dwivedi, HOD, Environmental Sciences


(b) **Member**

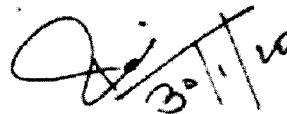
- i) Dr. Swapnil Rai, Associate Professor, EVS
- ii) Dr. Rwitabrata Mallick, AP-I, EVS
- iii) Dr Nidhi Shukla, AP-I, EVS
- iii) Prof. (Dr.) Avinash Tiwari, Professor SOS in Botany, JU Gwalior

2. **The agenda of the meeting included the following:**

- (a) Approval of the syllabus of Environmental Studies I and II for all UG Courses with revised Course Code according to the University Policy.
- (b) Approval of the syllabi of the 'Master of Environmental Science and Technology' (PG course).
- (c) Approval of the syllabi of Ph.D. course work in Environmental Science with revised Course Code and Format according to the University Policy.
- (d) Approval of syllabi of Environmental Management (EM) offered for Choice Based Credit System with revised Course Code according to the University Policy.
- (e) Approval of syllabi of Environmental Law (EL) offered for Choice Based Credit System with revised Course Code according to the University Policy.
- (f) Approval of syllabi of Industrial Environment Health & Safety (ES) offered for Choice Based Credit System with revised Course Code according to the University Policy.
- (g) Approval of syllabi of Disaster Management (DM) offered for Choice Based Credit System, with revised Course Code according to the University Policy.
- (h) Any other point with due permission of the Chairperson.

  
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**Head**  
Department of Environmental Science  
Amity School of Life Sciences  
Amity University Madhya Pradesh, Gwalior

### 3. Recommendations:

- (i) The BOS recommends that all the syllabi are up to mark and approved.

### 4. Summary of changes is given below: -

Current Syllabus					Proposed Changes/Modifications (addition/deletion in the Syllabus)	New Course Code	No. of Credits
Sr. No.	Course Title	Module of the syllabus	Old Course Code	No. of Credits			
1.	Environmental Studies – I	No Change	EVS 142	No Change	No Change	EVS 142	No Change
2.	Environmental Studies – II	No Change	EVS 242	No Change	No Change	EVS 242	No Change
3.	Environmental Management - CBCS	No Change	EM 1201	No Change	No Change	CBE 101	No Change
		No Change	EM 1202	No Change	No Change	CBE 201	No Change
		No Change	EM 1203	No Change	No Change	CBE 301	No Change
		No Change	EM 1204	No Change	No Change	CBE 401	No Change
		No Change	EM 1205	No Change	No Change	CBE 501	No Change
		No Change	EM 1206	No Change	No Change	CBE 601	No Change
4	Environmental Industrial Health & Safety- CBCS	No Change	ES 1501	No Change	No Change	CBF 101	No Change
		No Change	ES 1502	No Change	No Change	CBF 201	No Change
		No Change	ES 1503	No Change	No Change	CBF 301	No Change
		No Change	ES 1504	No Change	No Change	CBF 401	No Change
		No Change	ES 1505	No Change	No Change	CBF 501	No Change

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**Head**

Department of Environmental Science  
Amity School of Life Sciences  
Amity University Madhya Pradesh, Gwalior

		No Change	ES 1506	No Change	No Change	CBF 601	No Change
5	Disaster Management - CBCS	No Change	DM 1201	No Change	No Change	CBC 101	No Change
		No Change	DM 1202	No Change	No Change	CBC 201	No Change
		No Change	DM 1203	No Change	No Change	CBC 301	No Change
		No Change	DM 1204	No Change	No Change	CBC 401	No Change
		No Change	DM 1205	No Change	No Change	CBC 501	No Change
		No Change	DM 1206	No Change	No Change	CBC 601	No Change
6	Environmental Law - CBCS	No Change	EL 1401	No Change	No Change	CBD 101	No Change
		No Change	EL 1402	No Change	No Change	CBD 201	No Change
		No Change	EL 1403	No Change	No Change	CBD 301	No Change
		No Change	EL 1404	No Change	No Change	CBD 401	No Change
		No Change	EL 1405	No Change	No Change	CBD 501	No Change
		No Change	EL 1406	No Change	No Change	CBD 601	No Change
7	PhD Environmental Science		PhDEVS 101	4	Research Methodology	PRM 101	4
			PhDEVS-102	3	Research, Publication & Ethics	RPE 102	2
			PhDEVS-103	3	Review of Literature	PRL-103	2
			PhD EVS-104	2	Research techniques and instrumentation	EVS-104	4
			PhD EVS-105	3	Advances in environmental Sciences	EVS-105	4
			PhD EVS-106	3	Environmental Management, Laws	EVS-106	4

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**Head**  
Department of Environmental Science  
Amity School of Life Sciences  
Amity University Madhya Pradesh, Gwalior

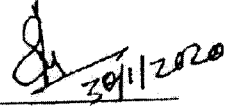


					& Ethics		
					Environmental Safety & Disaster Management	EVS- 107	4

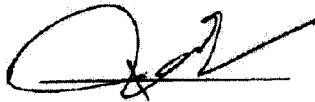
**Signature of Members**



(Prof. Dr. Kuldip Dwivedi)  
Chairman BOS



(Prof. Avinash Tiwari)  
External Expert



(Dr. Swapnil Rai)  
Internal Member

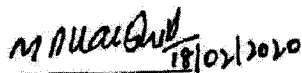


(Dr. Rwitabrata Mallick)  
Internal Member

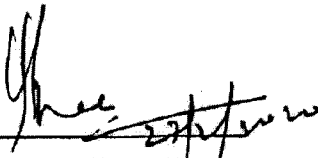


(Dr. Nidhi Shukla)  
Internal Member

Approved by



Pro Vice Chancellor  
AUMP, Gwalior



Hon'ble Vice Chancellor  
AUMP, Gwalior



**Head**  
Department of Environmental Science  
Amity School of Life Sciences  
Amity University Madhya Pradesh, Gwalior