



Date: 25 / 01 /2019

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 25th January 2019 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, Maharajpur, 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) Dr.Raghvendra Kumar Mishra
Associate Professor, Amity Institute of Biotechnology,
Amity University Madhya Pradesh, Maharajpur, Gwalior
- iii) Dr. Vikas Shrivastava
Associate Professor, Amity Institute of Biotechnology,
Amity University Madhya Pradesh, Maharajpur, Gwalior

2. **Agenda for the BoS meeting 2019:**

1. Approval of syllabi of B.Sc. (H) Biotechnology, for the batch 2019-22 and B.Tech Biotechnology batch 2019-23.
2. Approval of syllabi of M.Sc. (Biotechnology) for the batch 2019-21 and M.Tech (Biotechnology) batch 2019-21.

Prof (Dr.) R. S. Tomar
Director, Amity Institute of Biotech
Amity University Madhya Pra
Maharajpur. Gwalior 47400

3. Approval of syllabi of Ph.D. course work of Ph.D. in Biotechnology for the batch 2019-2020.
4. Approval of syllabi of minor tracks in Biotechnology: Biotechnology Management and Conservation Biology for the batch 2019-2022.
5. Any other point with the permission of Chairman of the Board of studies.

3. Recommendations.

The BoS recommends that:-

- (a) Course BTB 304: ~~Genetics~~ should be included in module V in view of latest advancement in the field.
- (b) Course BTB 320: ~~Microbiology~~ should be added in module III as it is important for practical learning.
- (c) Course BTB 801: ~~Microbiology~~ should be deleted from module II as it is already covered in module I.
- (d) Course BTB 801: ~~Credit~~ should be increased from 3 to 4 for in-depth coverage of topics.
- (e) Course BSB 223: ~~Study of specimens and slides related to Chordates~~ should be added in module I as these are taught in theory.
- (f) Course BSB 223: ~~Module IV~~ should be removed as their content already covered in the syllabus of B.Sc. IV sem (BSB 422).
- (g) Course BSB 401: ~~Topic~~ Annotation, comparison of different methods; ESTs—databases, clustering, gene discovery and identification, and functional classification should be deleted from module IV as they are already covered in module V.
- (h) Course MSB 101: ~~One module~~ should be added ~~to~~ ~~the~~ ~~module~~ for basics of structures of biopolymers; Carbohydrates, Lipids, Proteins and Nucleic Acids to make the course more comprehensible. In view of this, credits should be increased from 3 to 4.
- (i) Course MSB 220: ~~Experiment of PCR and Gradient PCR~~ should be ~~added~~ as it is a part of theory.
- (j) Syllabi of B.Sc. (H) Biotechnology for the batch 2019-22 and B.Tech Biotechnology batch 2019-23 are recommended for approval with above mentioned changes.
- (k) Syllabi of M.Sc. (Biotechnology) for the batch 2019-21 are recommended for approval with above mentioned changes.
- (l) Syllabi of M.Tech (Biotechnology) followed in batch 2018-20 is recommended for batch 2019-21 without any change.



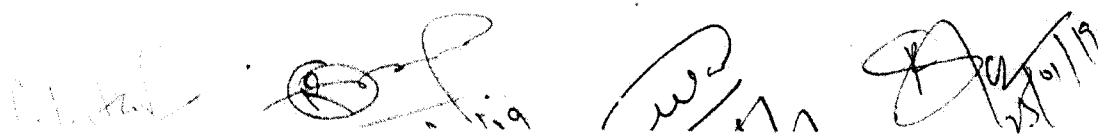



(m) Syllabi of Ph.D. course work of Ph.D. in Biotechnology followed in batch 2018-19 is recommended for batch 2019-2020 without any change.

(n) Syllabi of minor tracks in Biotechnology; Biotechnology Management and Conservation Biology followed in batch 2018-21 are recommended for batch 2019-2022 without any change.

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.Tech Biotechnology							
1.	Molecular Biology	V	BTB 304	03	Epigenetics should be added	BTB 304	04
2.	Biotechnology Lab III	III	BTB320	02	Gram's staining should be added	BTB 320	02
3	Genomics and Proteomics	II	BTB801	03	Topic genome sequencing should be deleted from module II as it is already covered in module I.	BTB801	03
4.	Gerfomics and Proteomics		BTB801	03	Credit should be increased from 3 to 4 for in-depth coverage of topics.	BTB801	04
B.Sc. (H) Biotechnology							
1.	Animal Sciences Lab- II	I	BSB 223	1	Study of specimens and slides related to Chordates should be added, these are taught in theory	BSB 223	1
2.	Animal Sciences	IV	BSB	1	Module IV should be	BSB	1



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	Lab- II		223		removed as their content already covered in the syllabus of B.Sc. IV sem (BSB 422)	223	
3.	Bioinformatics	IV	BSB 401	03	Topics: Annotation, comparison of different methods; ESTs – databases, clustering, gene discovery and identification, and functional classification should be deleted from module IV as they are already covered in module V.	BSB 401	03
M.Sc. Biotechnology							
1.	Advanced Biochemistry		MSB 101	03	One module should be added as module I for basics of structures of biopolymers; Carbohydrates, Lipids, Proteins and Nucleic Acids to make the course more comprehensible. In view of this, credits should be increased from 3 to 4.	MSB 101	04
2.	Advanced Molecular Biology Lab		MSB 220	02	PCR and Gradient PCR should be added as it is a part of theory	MSB 220	02

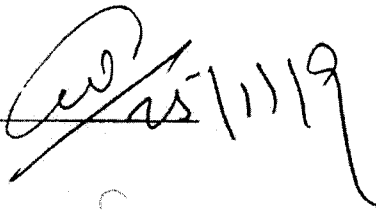
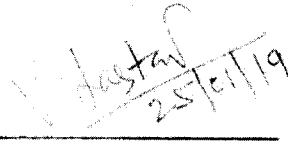
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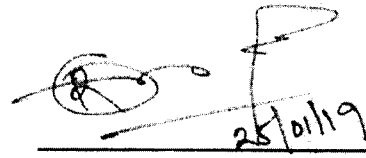
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Signature of Members


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Signature of Chairman-BoS

APPROVED BY 
Hon'ble Vice Chancellor 25/01/19
AUMP, Gwalior



AMITY UNIVERSITY

MADHYA PRADESH

(Established by Rit and Balved Education Foundation)

Date: 31/01/2019

BOARD OF STUDIES (DEPARTMENT OF ENVIRONMENTAL SCIENCE)

MINUTES OF THE MEETING

(Two Pages Only)

1. A meeting of Board of Studies of Department of Environmental Science, Amity University Madhya Pradesh was held on 31st January 2019 at 1130 hrs at AUMP, under the Chairmanship of Prof. (Dr.) S.P. Bajpai (Dean Research) and HOI, Environmental Sciences. The following members attended the meeting: -

(a) **Chairman:** Prof. (Dr.) S.P. Bajpai (Dean Research) and HOI, Environmental Sciences

(b) **Member**

- i) Dr. Swapnil Rai, AP-II, EVS
- ii) Dr. Rwitabrata Mallick, AP-I, EVS
- jj) Dr. Kuldip Dwivedi, AP-III, EVS
- iii) Dr. (Prof.) Avinash Tiwari, 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.
- (d) Approval of the syllabi of introduction of two new optional courses under Ph.D. course work in Environmental Science.
- (e) Approval of syllabi of Environmental Management (EM) offered for Choice Based Credit System
- (f) Approval of syllabi of Environmental Law (EL) offered for Choice Based Credit System.
- (g) Approval of syllabi of Industrial Environment Health & Safety (ES) offered for Choice Based Credit System.
- (h) Approval of syllabi of Disaster Management (DM) offered for Choice Based Credit System.
- (i) Any other point with due permission of the Chairperson.

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.
- (ii) Syllabus of all four Minor Tracks namely Environmental Management, Environmental Law, Industrial Environmental Health & Safety and Disaster Management has been discussed and reviewed. As per UGC Letter: 1-8/2017 (SWAYAM Board), Dated: 28th Jan 2019, EVS have shortlisted two MOOCs courses given below to be added in the Minor track from July-2019.

Sr. No	Name of the Minor Track	Name of the MOOCs Courses	No. of Credits
1.	Environmental Law	Environmental Law	4
2.	Disaster Management	Urban Disaster Risk Mitigation & Climate Resilient Development	4
3	Environmental Management	Solid and Hazardous Waste Management	4

- (iii) Other one course of remaining track namely Industrial Environmental Health & Safety will be updated in due course.
- (iv) Those students, who will register for MOOC, need not to attend classes for minor track and not to appear in ESE of that semester.

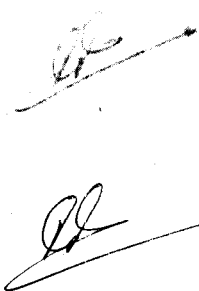
4. Summary of changes is given below:-

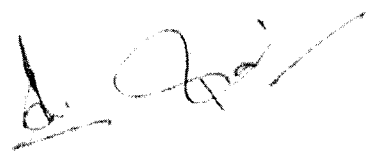
Current Syllabus					Proposed Changes/Modifications (addition/deletion in the Syllabus)	New Course Code	No. of Credits
Sr. No.	Course Title	Module of the syllabus	Old Course Code	No. of Credits			
1.	RESEARCH TECHNIQUES AND INSTRUMENTATION (PhD Course Work)	No change	PhD EVS-107	No change	No change	PhD EVS 102	No change

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

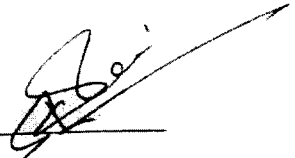
2	ADVANCES IN ENVIRONMENTAL SCIENCES (PhD Course Work)	No change	PhD EVS-100	No change	No change	PhD EVS 103	No change
3	Environmental Studies - I	No Change	BJM 142. BAL 142. BCL 142. BBL 142. BTB 142. BSB 142. BFD 142. BBA 142. BCH 142. BPH 142. BAR 142. BID 142. BTC 142. BTM 142. BTCE 142. BCA 142. BTE 142.	No Change	No Change	EVS 142	No Change
4	Environmental Studies - II	No Change	BJM 242. BAL 242. BCL 242. BBL 242. BTB 242. BSB 242. BFD 242. BBA 242. BCH 242. BPH 242. BAR 242. BID 242. BTC 242. BTM 242. BTCE 242. BCA 242. BTE 242.	No Change	No Change	EVS 242	No Change

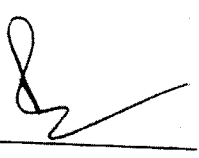





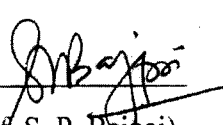

Head
 Department of Environmental Science
 Amity School of Life Sciences
 Amity University Madhya Pradesh, Gwalior

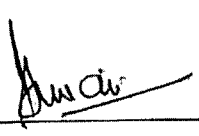
Signature of Members



(Dr Swapnil Rai)
Member



(Dr Rwitabrata Mallick)
Member


(Dr Kuldip Dwivedi)
Member


(Prof. S. P. Bajpai)
Chairman BOS


(Prof. Avinash Tiwari)
External Expert


11/3/19
APPROVED BY
Hon'ble Vice Chancellor
AUMP, Gwalior


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