

AMITY UNIVERSITY

MADHYA PRADESH

(Established by Ethical and Balanced Education Foundation)

Date: 10 / 01 / 2017

BOARD OF STUDIES (Biotechnology)

MINUTES OF THE MEETING

(7 Pages Only)

1. A meeting of board of studies of Biotechnology, Amity Institute of Biotechnology, Amity University Madhya Pradesh was held on 10th January 2017 at 1400 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,
Professor Biochemistry,
Coordinator, Centre for Studies in Food Technology,
Jiwaji University Gwalior
- ii) Prof. (Dr.) Rajendra K. Dubey,
Professor & Head, Department of Zoology
Govt. Kamla Raja Girls Post Graduate (Autonomous) College , Gwalior
- iii) Dr. Raghendra Kumar Mishra
Associate Professor, Amity Institute of Biotechnology,
Amity University Madhya Pradesh, Maharajpur, Gwalior
- iv) Dr. Vikas Shrivastava
Associate Professor, Amity Institute of Biotechnology,
Amity University Madhya Pradesh, Maharajpur, Gwalior

2. The agenda of the meeting included the following:

(a) Approval of syllabi of B.Sc.(H)Biotechnology for the batch 2017-20 and B.Tech Biotechnology batch 2017-21.

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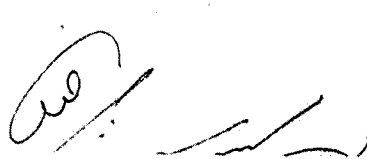
Prof (Dr.) R.S. Tomar
Director, Amity Institute of Biotechnology
Amity University Madhya Pradesh
Maharajpur, Gwalior 474005

- 2
- (b) Approval of syllabi of M.Sc.(Biotechnology) for the batch 2017-19 and M.Tech (Biotechnology) batch 2017-19.
 - (c) Approval of syllabi of Ph.D. course work of Ph.D. in Biotechnology full time for the session 2017-20 and part time for the session 2017-21.

3. Recommendations.

The BOS recommends that:-

- (a) Course BSB 101 shifted to IInd semester to maintain balance in credits in all the semesters.
- (b) Course BSB 102 shifted to IInd semester to maintain balance in credits in all the semesters.
- (c) Due to the shifting of BSB 101 & BSB 102 in next semester remaining course codes have been changed (details are enclosed in summary)
- (d) Module IV of BSB 106 modified to include Pheretima (Earth worm) & vermicomposting in place of Nereis as per the need of academia/ Industries.
- (e) Course BSB 201 shifted to IIIrd semester to maintain balance in credits in all the semesters.
- (f) Course BSB 202 shifted to IVth semester to maintain balance in credits in all the semesters.
- (g) Course BSB 303 is merged with BSB 402 IVth semester to maintain balance in credits in all the semesters.
- (h) Course BSB 401 shifted to Vth semester to maintain balance in credits in all the semesters.
- (i) Course BSB 402 shifted to Vth semester to maintain balance in credits in all the semesters.
- (j) Module III & IV of BSB 503 is merged as module III.
- (k) Module IV of BSB 503, Hypersensitivity and Immunodeficiency is added and credit has been changed to 03 from 02 credits to give appropriate time for teaching.
- (l) Course BSB 505 is merged with course BSB 504 to maintain balance in credits in all the semesters.
- (m) Due to shifting of various courses in B.Sc.(H) Biotechnology (BSB 101, BSB 102, BSB 202, BSB 203, BSB 401, BSB 402) the lab courses (BSB 120, BSB 220, BSB 320, BSB 420 & BSB 520) have been rearranged.
- (n) Course BTB 207 shifted to Vth semester to maintain balance in credits in all the semesters.



- (o) Due to the shifting of BTB 207 in Vth Semester remaining course codes have been changed (Details are enclosed in summary)
- (p) Course BTB 603 shifted to Vth semester to maintain balance in credits in all the semesters.
- (q) Course BTB 622 shifted to Vth semester to maintain balance in credits in all the semesters.
- (r) Course BTB 604 credit has been changed to 04 from 03 credits to give appropriate time for teaching.
- (s) Due to the of BTB 603 to Vth Semester remaining course codes have been changed (Details are enclosed in summary)
- (t) Module IV of MSB 104 is modified to include Phosphatidylinositol signal transduction pathway, primary signals, secondary signals is added as per the need of academia/Industries.
- (u) Module I of MSB 202 is modified to include PAC and Bacullo virus based vectors. Special purpose vectors: Expression vector to make single stranded DNA for sequencing, Vector for preparing RNA probe, vector for maximizing protein synthesis is added as per the need of academia/Industries.
- (v) Module III of MSB 203 is modified to remove Control and monitoring, online and off-line control, Computers in bioprocess control systems as it is already covered in Module II
- (w) Module I, II & IV of MSB 204 are modified. (Details are enclosed in summary)
- (x) Module III & IV of MSB 223 are modified. (Details are enclosed in summary).
- (y) Module I & IV of MSB 304 are modified. (Details are enclosed in summary).
- (z) Module IV & V of MSB 305 are reorganized. (Details are enclosed in summary)

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.Sc. Biotechnology | | | | | | | |
| 1 | Introductory Biochemistry & Biophysics | | BSB 101 | 3. | This paper is shifted to IInd Semester | BSB 201 | 3 |

| | | | | | | | |
|----|-------------------------------------|-------------------------|---------|---|--|---------|---|
| 2 | Bioanalytical Techniques | - | BSB-102 | 3 | This paper is shifted to IInd Semester | BSB-202 | 3 |
| 3 | Cell Biology | - | BSB-103 | 3 | | BSB-101 | 3 |
| 4 | Maths & Biostatistics | - | BSB-104 | 3 | | BSB-102 | 3 |
| 5 | Plant Sciences - I | - | BSB-105 | 3 | | BSB-103 | 3 |
| 6 | Animal Sciences-I | IV | BSB-106 | 3 | Pheretima (Earth worm) & Vermicomposting is added in place of Nereis. | BSB-104 | 3 |
| 7 | Chemistry - I | - | BSB-107 | 3 | | BSB-105 | 3 |
| 8 | Environment Studies - I | - | BSB-108 | 2 | | BSB-106 | 2 |
| 9 | Biochemistry & Metabolic Regulation | - | BSB-201 | 3 | | BSB-303 | 3 |
| 10 | Bioinformatics | | BSB-202 | 3 | | BSB-401 | 3 |
| 11 | Molecular Cell Biology - I | | BSB-303 | 3 | This paper is clubbed with BSB-403 in IVth Semester. | BSB-403 | 3 |
| 12 | Recombinant DNA Technology | | BSB-401 | 3 | This paper is shifted to Vth Semester | BSB-505 | 3 |
| 13 | Microbial Technology | | BSB-402 | 3 | This paper is shifted to Vth Semester | BSB-506 | 3 |
| 14 | Immunotechnology | Module III Module IV | BSB-503 | 2 | Module III & Module VI is merged together as Module III Hypersensitivity and Immunodeficiency is added as Module IV | BSB-503 | 3 |
| 14 | Proteomics | | BSB-505 | 2 | This paper is clubbed with BSB-504 in Vth Semester. | BSB-504 | 3 |
| 15 | Biotechnology Lab I | Module I | BSB-120 | 1 | Module I is shifted to BSB-220 due to the shifting of BSB 101 & BSB 102 in IInd Semester | BSB-120 | 3 |
| 16 | Biotechnology Lab | Module I | BSB- | 1 | Module I & IVth are shifted | BSB- | 1 |

| | | | | | | | |
|-----------------------------|---|-----------|-----------|---|---|-----------|---|
| | II | & IV | 220 | | to BSB 320 due to the shifting of BSB 201 in IIIrd Semester Module II and III are shifted to BSB 420 due to the shifting of BSB 202 in IVth Semester | 220 | |
| 17 | Biotechnology Lab III | | BSB-320 | 2 | Modules are rearranged | BSB-320 | 2 |
| 18 | Biotechnology Lab IV | | BSB-420 | 2 | Module I is shifted to BSB 520 due to the shifting of BSB 402 in Vth semester | BSB-420 | 2 |
| B.Tech Biotechnology | | | | | | | |
| 1 | Basic Bioanalytical Techniques | | BTB - 207 | 3 | This paper is shifted to Vth Semester | BTB-505 | 3 |
| 2 | Environmental studies II | | BTB - 208 | 2 | | BTB-207 | 2 |
| 3 | Structural Biology | | BTB - 603 | 3 | This paper is shifted to Vth Semester | BTB - 506 | 3 |
| 4 | Structural Biology Lab | | BTB - 622 | 1 | This paper is shifted to Vth Semester | BTB - 523 | 1 |
| 5 | Immunology & Immunotechnology | | BTB-604 | 3 | Credit has been increased | BTB - 603 | 4 |
| 6 | Computational Biology | | BTB-605 | 3 | | BTB - 604 | 3 |
| 7 | Fundamentals of Biochemical Engineering | | BTB-606 | 3 | | BTB - 605 | 3 |
| M.Sc. Biotechnology | | | | | | | |
| 1 | Advanced Cell Biology & Genetics | Module IV | MSB-104 | 3 | Phosphatidylinositol signal transduction pathway, primary signals, secondary signals is added | MSB-104 | 3 |
| 2 | Advances in Genetic Engineering | Module I | MSB-202 | 4 | PAC and Baculovirus based vectors. Special purpose vectors : Expression vector to make single stranded DNA for sequencing, Vector for | MSB-202 | 4 |

| | | | | | | | |
|---|-----------------------------------|--|---------|---|---|---------|---|
| | | | | | preparing RNA probe, vector for maximizing protein synthesis is to be added | | |
| 3 | Bioprocess Technology | Module III | MSB-203 | 4 | Control and monitoring, online and off-line control, Computers in bioprocess control systems is removed as it is already covered in Module II | MSB-203 | 4 |
| 4 | Advance Genomics & Proteomics | Module I Module II: Module IV: | MSB-204 | 4 | RNA content is added. Transcriptomics and metatranscriptomics: Introduction , methods and uses. (rearranged with new title of module). Transcriptomes and Random primer is deleted as it is covered in Module II. | MSB-204 | 4 |
| 5 | Advance Genomics & Proteomics Lab | Module IV | MSB-223 | 1 | 2D data analysis using PDquest software is shifted to module III | MSB-223 | 1 |
| 6 | Advanced Animal Biotechnology | Module I Module IV | MSB-304 | 3 | Stem cell Therapy: Methods and applications to be added Possible gene therapies for cancer to be added | MSB-304 | 3 |
| 7 | Advanced Plant Biotechnology | Module IV | MSB-305 | 3 | Methods and strategies of Gene silencing, RNAi. (siRNA and mi RNA), Antisense RNA technology, etc. is added. | MSB-305 | 3 |

V. Jaisankar

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Signature of Members

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10/01/2017
Signature of Chairman-BoS

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19/11/17
APPROVED BY

Hon'ble Vice Chancellor
AUMP, Gwalior



AMITY UNIVERSITY

MADHYA PRADESH

(Established by Ritand Balved Education Foundation)

Date: 30/01/2017

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 30th January 2017 at 1100 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. Sushil Sharma, AP-I, EVS

iii) Dr. (Prof.) Rajeev Jain, SOS in Chemistry, JU Gwalior

iv) 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 for UG Courses

(b) Approval of the syllabus of the 'Master of Environmental Science and Technology' (PG course)

(c) Approval of the syllabus of Ph.D. course work in Environmental Science

(d) Any other point with due permission of the Chairperson.

3. Recommendations:

(i) The BOS recommends that:-

(a) 'Trophic dynamics' should be added in Unit-IV of MEST-101 (Environment, Ecology and Ecosystem) for the course Master of Environmental Science and Technology (PG Course)

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Head

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

→ (PANs: Pesticides/Insecticides) as a pollutant

(b) 'PAN' should be added in Unit-III of MEST-104 (Current Environmental Aspects) for the course Master of Environmental Science and Technology (PG Course)

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 | Environment, Ecology and Ecosystem | IV | MEST-101 | 4 | Addition of Trophic dynamics' in Unit-IV of MEST-101 | NA | 4 |
| 2 | Current Environmental Aspects | III | MEST-104 | 4 | Addition of PAN' in Unit-III of MEST-104 | NA | 4 |

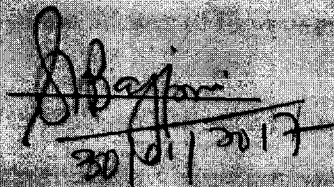
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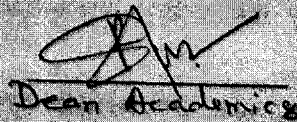

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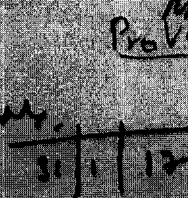

Dean Academics

Signature of Chairman-BOS



Pro VC

APPROVED BY
Hon'ble Vice Chancellor
AUMP, Gwalior


31/01/17


Head
Department of Environmental Science
Amity School of Life Sciences
Amity University, Noida, Pradesh, Greater