

श्री माता वैष्णो देवी विश्वविद्यालय

Shri Mata Vaishno Devi University
Sub Post Office, Kakryal (Katra) – 182 320

(SCHOOL OF BIOTECHNOLOGY)

SMVDU/SoBT/19/ 695 -701

03.08.2019

MINUTES OF THE 8TH MEETING OF BOARD OF STUDIES (BoS) OF DEPARTMENT OF BIOTECHNOLOGY (SoBT), SMVDU

The 8th Meeting of Board of Studies (BoS) of School of Biotechnology (SoBT), SMVDU was held on 22.05.2019 in the Conference Hall of SoBT, SMVDU at 10.30 AM in which various Academic matters related to UG and PG courses offered by School of Biotechnology were discussed. Following members attended the 8th Meeting of Board of Studies (BoS) of School of Biotechnology (SoBT):

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|---|--------------------------|--|
| 1 | Prof. V.K. Bhat | Professor, Dean, FoS Chairman (<i>Ex-Officio</i>), BoS of SoBT |
| 2 | Prof. V. Verma | Professor, Head, SoBT Vice-Chairman, BoS of SoBT |
| 3 | Prof. M.V. Deshpande | Emeritus Scientist & Professor, AcSIR, Biochemical Sciences Division, CSIR-National Chemical Laboratory, Pune, Maharashtra Member Expert, BoS of SoBT |
| 4 | Dr. Prashant Agrawal | CEO and Director, Ira Agrotech and Research Pvt. Ltd., Nagpur, Maharashtra Member Expert, BoS of SoBT |
| 5 | Dr. Sumeet Gupta | Dean, Academic Affairs, SMVDU Invited Member, BoS of SoBT |
| 6 | Dr. Sharada M. Potukuchi | Associate Prof., Academic Coordinator, SoBT & Member Secretary, BoS of SoBT |
| 7 | Dr. Ajay Koul | Associate Prof., SoCSE Invited Member, BoS of SoBT |
| 8 | Dr. Ratna Chandra | Assistant Professor, SoBT |
| 9 | Dr. Anil Kumar | Assistant Professor, SoBT |

Minutes of the 8th Meeting of Board of Studies, SoBT, SMVDU held on 22nd May, 2019

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| | | |
|----|------------------------|---------------------------|
| 10 | Dr. Preeti Sharma | Assistant Professor, SoBT |
| 11 | Dr. Shafaq Rasool | Assistant Professor, SoBT |
| 12 | Mr. Parvez S. Slathia | Assistant Professor, SoBT |
| 13 | Mr. Arvind Yadav | Assistant Professor, SoBT |
| 14 | Dr. Indu Bushan | Assistant Professor, SoBT |
| 15 | Dr. Vinod Singh | Assistant Professor, SoBT |
| 16 | Dr. Swarkar Sharma | Assistant Professor, SoBT |
| 17 | Dr. Ekta Rai | Assistant Professor, SoBT |
| 18 | Dr. Rakesh Kumar | Assistant Professor, SoBT |
| 19 | Dr. Raju Shankarayan | Assistant Professor, SoBT |
| 20 | Dr. Narendra K. Bairwa | Assistant Professor, SoBT |

Prof. Verma informed that the External Experts Members, Dr. G.S. Prasad, Chief Scientist & Head MTCC, CSIR-Institute of Microbial Technology, Chandigarh could not attend the meeting since he has shifted recently to CSIR-IICT, Hyderabad.

8.1 Welcome of new Members by the Chair

Prof. V. Verma, Head, SoBT, Vice Chairman of BoS welcomed Prof. V.K. Bhat, Dean, Faculty of Sciences, Chairman (*Ex-Officio*); Prof. M.V. Deshpande, Emeritus Scientist & Professor, AcSIR, Biochemical Sciences Division, CSIR-National Chemical Laboratory, Pune, Maharashtra; Dr. Prashant Agrawal, CEO and Director, Ira Agrotech and Research Pvt. Ltd., Nagpur, Maharashtra; Dr. Sumeet Gupta, Dean, Academic Affairs, SMVDU; Dr. Ajay Koul, Assistant Professor, SoCSE, SMVDU and all the faculty members of SoBT present in the meeting and thanked them for making it convenient to provide valuable inputs in person and by E-mail.

Following agenda items related to BoS of SoBT were discussed and deliberated and after detailed discussions/ deliberations, the recommendations of the Committee are given below. The agenda items which were discussed during this meeting and the changes suggested are detailed herewith.

8.2 To consider and ratify minutes of 7th BoS meeting held on September 12, 2017

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The minutes of the 7th meeting of Board of Studies (September 12, 2017) were circulated to all the BOS members. Since no comments had been received from any members, the same were unanimously approved (copy of Minutes of the Meeting are annexed at Annexure A). The Action Taken Report (ATR) from the ensuing discussions held are placed at Annexure B.

Agenda Item No. 1

8.3 To consider and approve the floating of new program in M. Sc. (Chemistry)

With reference to IOC Nos. SMVDU/AA/19/45 dated 12.04.2019 & SMVDU/AA/19/241 dated 21.05.2019 the proposal for floating a new Program - M. Sc. (Chemistry) was discussed and Dr. Anil Kumar, Asst. Prof., SoBT (Chemistry Faculty) was requested to prepare the detailed justification and Course Structure so that it may be circulated amongst the Members prior to its formal inclusion for further discussion. The same is placed as Annexure C for kind consideration.

Agenda Item No. 2

8.4 To consider and approve the floating of new program in M. Sc. (Biochemistry) by SoBT

The matter regarding proposal for initiation for floating a new Program in M. Sc. (Biochemistry) to be offered by SoBT was discussed. Dr. Sumeet Gupta, Dean, Academic Affairs; informed that uniform guidelines for Course Structure laid down by the University should be followed strictly while preparing the outline for floating M. Sc. (Biochemistry) and should be submitted well in time so that the program could be initiated in the Academic session 2020-22 for subsequent approval. The Proposed Course Structure is placed as Annexure D for kind consideration.

Agenda Item No. 3:

8.5 To consider and approve of Course Structure to be offered to students of M. Sc. (Biotechnology) (Option for specialization in Genetics) from Academic session 2018 onwards

A. The proposed Course structure to be floated for students of M. Sc. (Biotechnology) (Option for specialization in Genetics) from Academic session 2018-2020 was discussed

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Rakesh Kumar, dw., AP, H₂, vs, PSH, d. shir, etc.

and finalized. A copy is placed as Annexure E along with the approved Course structure to be offered.

- B. The proposed Course structure to be floated for students of M. Sc. (Biotechnology) (Option for specialization in Genetics) from Academic session 2018-2020 was discussed and finalized. A copy is placed as Annexure F along with the approved Course structure to be offered.
- C. The Revised Course structure to be offered to students of M. Sc. (Biotechnology) (Option for specialization in Genetics) from Academic session 2019-2021 ONWARDS along with Course contents for following Course was approved along with the course credits given alongside:
1. BTL7223 Advanced Bioinformatics (3-0-3)
 2. BTL7471 Medical Genetics and Genomics (3-0-3)
 3. BTL7473 Agricultural Genetics & Crop Improvement (3-0-0)
 4. BTL7472 Population: Phylogenetics and Forensics (3-0-0)
- D. The proposal for increase in Number of seats from 30 to 40 was taken up as recommended in the Academic Council and Academic Audit Committee and noted as approved by the Executive Council in its 27th Meeting; with reference to Notification No. SMVDU/AA/18/1467 dated 06.03.2018 from Academic session 2018-19 onwards, with introduction for option for Specialization in Genetics (10 seats).
- E. As per the decision taken in the 30th Meeting of the Academic Council; the procedure for selection of students for Genetics Specialization in M. Sc. (Biotechnology) program shall be implemented as notified vide Notification No. SMVDU/AA/18/1546 dated 26.03.2018.

Agenda Item No. 4

8.6 Shifting of the Common compulsory Elective Course "Discourse on Human Virtues" offered to students of M. Sc. (Biotechnology) in Semester IV to Semester III

With reference to the application submitted by the students of M. Sc. (Biotechnology) for shifting of the Common compulsory Elective Course "Discourse on Human Virtues" from Semester IV to Semester III was considered and discussed at length. After much deliberation, it was decided to shift the Elective to Semester III with an option for the students of taking it either in the III or IV Semester. The revised Course

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Structure for M. Sc. (Biotechnology) for Academic Session 2019-21 onwards is placed as Annexure G.

During the ensuing discussions, Dr. Prashant Agarwal, suggested for the inclusion of a three credit course to be offered spreading over Sem I, II and III titled "Technoprenurship". In case this is approved, then the total credits of the M. Sc. Program will remain to be 91. Therefore, the common compulsory Elective Course "Discourse on Human Virtues" can then be converted into a Non-Credit course as is being offered to students in the University for other PG Programs which can be offered in the Sem III itself.

The proposed Course structure and contents of the course "Technoprenurship" are placed as Annexure I for perusal.

Agenda Item No. 5 :

8.7 Modification in the existing Course Contents of Elective Course "Stem Cell Biology and Applications" offered to students of M. Sc. (Biotechnology) Semester III

The revised course contents as per the suggestions made by the experts are placed at Annexure J for approval.

Agenda Item No. 6 :

8.8 Modification in the existing Course Contents of Elective Course "Genome Stability Regulation and Drug Development" offered to students of M. Sc. (Biotechnology) Semester III

The revised course contents as per the suggestions made by the experts are placed at Annexure K for approval.

Agenda Item No. 7:

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8.9 Floating of Open Elective Course titled: "Novel Genome Editing Technologies and Applications" to be offered to students of M. Sc. (Biotechnology) Semester III

The revised course contents as per the suggestions made by the experts are placed at Annexure L for approval.

Agenda Item No. 8:

8.10 Floating of Open Elective Course titled: "Synthetic Biology and Biocomputing" along with School of Computer Science & Engineering

The revised course contents as per the suggestions made by the experts are placed at Annexure M for approval.

Agenda Item No. 9:

8.11 Floating of Open Elective Course titled: "Biology of Learning, Memory and Intelligence" to be offered to students of all streams in the University

The revised course contents as per the suggestions made by the experts are placed at Annexure N for approval.

Agenda Item No. 10:

8.12 Floating of Open Elective Course titled: "Stress, Psychological Disorders and Health Management" to be offered to students of all streams in the University

The revised course contents as per the suggestions made by the experts are placed at Annexure O for approval.

8.13 Any other item with the permission of the chair:

In view of the Faculty strength and available expertise in SoBT; the following suggestions were made by the Experts:

1. Prof. V.K. Bhat and Prof. V. Verma suggested that all the course contents in B. Tech and M. Sc Programs offered by SoBT should be divided into three or four units. All Faculty members & respective Course Coordinators proposing new courses, should divide the course contents as per syllabus for Minor and Major Exams.
2. Prof. Verma at the request of Dr. Preeti Sharma, Asst. Prof., SoBT and Course Coordinator for Common Compulsory Course - Environmental Studies (BTL 2304)

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floated to students of all branches of Engineering in the University; discussed the proposed changes in the Course Contents in order to make it more relevant to the Objectives of the Course. The revised course contents as per the suggestions made by the experts are placed at Annexure P for approval.

3. Prof. Deshpande & Dr. Agarwal suggested for starting a new Program in B. Tech. with subjects like Biomedical Engineering as is currently being offered by IITs. The proposed eligibility criteria for such Program can be students with both Biology/Biotechnology and Maths (optional) in their Class 12. A bridge course can be offered respectively for Maths or Biology in the first Semester for these students.
4. Prof. Deshpande & Dr. Agarwal also suggested for starting a new Program of B. Sc. M. Sc. Integrated course in Biotechnology to attract more students into Basic Sciences.

8.14 Vote of thanks

Meeting ended with Vote of Thanks to Experts and Faculty Members of the School of Biotechnology.

Based on the observations made by the experts and members of BoS of SoBT, the proposed revisions in the course curriculum are finally recommended for discussion and approval in the next scheduled Academic Council meeting of the University.

Dr. Narendra Bairwa
Asstt. Professor
Member (on leave)

Dr. Swarkar Sharma
Asstt. Professor
Member

Dr. Indu Bhushan
Asstt. Professor
Member

Dr. Rakesh Kumar
Asstt. Professor
Member


Dr. Vinod Singh
Asstt. Professor
Member

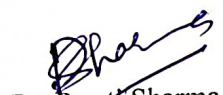
Er. Arvind Yadav
Asstt. Professor
Member

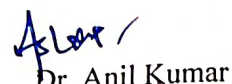
Dr. Ekta Rai
Asstt. Professor
Member

Dr. Raju Shankarayan
Asstt. Professor
Member

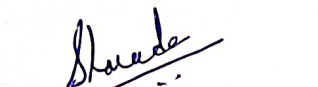
Dr. Shafaq Rasool
Asstt. Professor
Member



Mr. Parvez S. Slathia
Asstt. Professor
Member

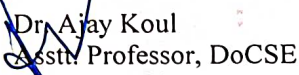

Dr. Preeti Sharma
Asstt. Professor
Member



Dr. Anil Kumar
Asstt. Professor
Member


Dr. Ratna Chandra
Asstt. Professor
Member
(on leave)


Dr. Sharada M. Potukuchi
Assoc. Professor
Member

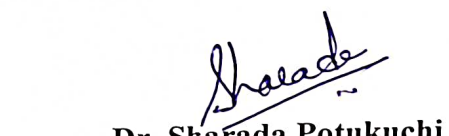

Prof. V. Verma
Head, SoBT
Vice-Chairman


Dr. Ajay Koul
Asstt. Professor, DoCSE
Expert Member


Dr. Sumeet Gupta
Dean (Academic Affairs)


Prof. V.K. Bhat
Dean, FoS
Chairman

Submitted for your kind consideration & approval of the same in the forthcoming Academic Council meeting.


Dr. Sharada Potukuchi
Member Secretary BoS, SoBT


Head, SoBT

Copy to:

1. Chairman, BoS of SoBT, SMVDU for kind information.
2. Registrar, SMVDU for kind information.
3. Dean (AA) for information.
4. PS to VC for kind information of Hon'ble Vice-Chancellor.
5. All members concerned for information by E-mail.
6. Record/Office file.