

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

SMVDU/SoBT/2020/386

17.03.2020

**MINUTES OF THE 11<sup>TH</sup> MEETING OF BOARD OF STUDIES (BoS) OF SCHOOL OF BIOTECHNOLOGY (SoBT), SMVDU**

The 11<sup>th</sup> Meeting of Board of Studies (BoS) of School of Biotechnology (SoBT), SMVDU was held on 12<sup>th</sup> and 13<sup>th</sup> of March, 2020 in the Conference Hall of Block-A of SoBT in which various Academic matters related to UG , PG and Ph.D courses to be offered by School of Biotechnology were discussed. Following members attended the 11<sup>th</sup> Meeting of Board of Studies (BoS) of School of Biotechnology (SoBT):

S. No.	Name of The Member	Designation
1.	Dr. S.B. Babbar	Professor, Department of Botany, University of Delhi, New Delhi Expert External Member Interim BoS of Botany
2.	Dr. Renu Bharadwaj	Professor & Head, Department of Botany Guru Nanak Dev University, Amritsar-Punjab Expert External Member Interim BoS of Botany
3.	Prof. Namrata Sharma	Professor & Head, Department of Botany, University of Jammu, Jammu, J&K Expert External Member Interim BoS of Botany
4.	Dr. B.S. Bhau	Professor & Head, Department of Botany Central University of Jammu, Jammu & Kashmir Expert External Member Interim BoS of Botany
5.	Prof. V. Verma	Professor, SoBT
6.	Dr. Sharada M. Potukuchi	Associate Professor & Head, SoBT Chairperson, BoS of SoBT
7.	Dr. Anil Kumar	Assistant Professor, SoBT
8.	Dr. Preeti Sharma	Assistant Professor, SoBT
9.	Dr. Shafaq Rasool	Assistant Professor, SoBT & Member Secretary BoS of SoBT
10.	Mr. Parvez S. Slathia	Assistant Professor, SoBT
11.	Dr. Indu Bushan	Assistant Professor, SoBT
12.	Dr. Vinod Singh	Assistant Professor, SoBT
13.	Dr. Swarkar Sharma	Assistant Professor, SoBT

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14.	Dr. Ekta Rai	Assistant Professor, SoBT
15.	Dr. Rakesh Kumar	Assistant Professor, SoBT
16.	Dr. Raju Shankarayan	Assistant Professor, SoBT
17.	Dr. Narendra Bairwa	Assistant Professor, SoBT

Dr. Sharada M. Potukuchi Associate Professor & Head SoBT informed the Board that interim BoS of Botany has been constituted for seeking deliberations on the Introduction of new Academic Programs in the university by School of Biotechnology pertaining to the subject of Botany. Accordingly the External Expert Members, Dr. G.S. Prasad, Chief Scientist & Head, MTCC, CSIR-Institute of Microbial Technology, Chandigarh, Prof. M.V. Deshpande Emeritus Scientist & Professor, AcSIR, Biochemical Sciences Division, CSIR-National Chemical Laboratory, Pune and Dr. Prashant Agrawal CEO and Director, Ira Agrotech and Research Pvt. Ltd., Nagpur, Maharashtra; were not invited for the meeting since the major Agenda of the meeting was to discuss and deliberate about the new programs Integrated B. Sc. Honours (Botany) and M. Sc. (Botany) being initiated from next Academic session. It was also informed that Prof. Ab. Hamid Wani, Head, Department of Botany, University of Kashmir, Kashmir; External Expert Member Interim BoS of Botany could not attend the meeting due to some prior academic commitments.

Dr. Ratna Chandra, Associate Prof., SoBT could not attend the meeting being on Child care Leave and Mr. Arvind Kumar Yadav, Assistant Professor, SoBT could not attend the meeting being on leave.

### **11.1 Welcome of new Members by the Chair**

Dr. Sharada M. Potukuchi, Head, SoBT and Chairperson of BoS welcomed Prof. S.B. Babbar, Professor Department of Botany University of Delhi, Delhi; Prof. Renu Bharadwaj Head, Department of Botany Guru Nanak Dev University, Amritsar, Punjab; Prof. Namrata Sharma, Head Department of Botany, University of Jammu, Jammu and Prof. B.S. Bhau Head, Department of Botany Central University of Jammu, Jammu as Expert External Members Interim BoS of Botany and thanked them for making it convenient to attend the meeting at a very short notice.

Following agenda items 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.

### **11.1 To consider and ratify minutes of 10<sup>th</sup> BoS meeting held on 14<sup>th</sup> September, 2020.**

**Agenda of 13<sup>th</sup> BoS Meeting of SoBT to be held on 17<sup>th</sup> September, 2020**



The minutes of the 10<sup>th</sup> meeting of Board of Studies held on 14<sup>th</sup> September, 2019 were circulated to all the BOS members. Since no comments had been received from any members, the same were unanimously approved. The Action Taken Report (ATR) from the ensuing discussions and the copy of the MoM are placed at Annexure I-A and I-B.

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

#### **11.2 To consider and approve the Course structure and detailed Course Curriculum of Integrated B. Sc. (Honours) Botany - M. Sc. (Botany)**

The detailed Course Structure and Course Curriculum of Integrated B. Sc. (Honours) Botany- M.Sc. (Botany) Program to be offered by School of Biotechnology from the next Academic Session (2020) prepared by faculty members of SoBT as per UGC CBCS guidelines was discussed and deliberated in detail. External experts after detailed deliberations suggested some valuable modifications in the syllabus as follows:

1. The subject external experts emphasized that course structure of B. Sc. Honours Botany may be prepared strictly as per UGC-CBCS guidelines and model syllabus of B. Sc. (Botany) may be referred for preparing the detailed course curriculum.
2. Subject External Experts suggested to include 14 core courses of 6 credits each in B. Sc. Honours (Botany)
3. Experts suggested to incorporate a course on evolutionary Biology.
4. Experts also suggested to avoid overlap of course contents in course curriculum.
5. It was also suggested to consult recent books on different courses for framing the detailed course curriculum.
6. Experts also suggested to incorporate latest text books with new editions as recommended readings.

After taking into consideration the inputs received from all the members and after in-depth deliberations on the matter, modification was done in the syllabus as per above recommendations and accordingly the revised course structure and course contents is placed as Annexure-II .

Since the course structure has been revised in view of the suggestions of the external experts so the course structure placed at Annexure-II was approved by the Board.

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The expert members emphasized on the initiation of Integrated B. Sc. (Honours) Botany - M. Sc. (Botany) Program in SMVDU at the earliest for the benefit of students as basic sciences is in huge demand in the state. They recommended to recruit faculty members with specialization in Botany for teaching the courses in B. Sc. (Honours) Botany - M. Sc. (Botany).

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

### **11.3 To consider and approve the Course structure and detailed Course**

#### **Curriculum of M. Sc. (Botany)**

Dr. Sharada M. Potukuchi, Head SoBT, apprised the members of the Board that the University Authorities intend to offer M. Sc. (Botany) Program from next academic session 2020 onwards.

The course structure and detailed course curriculum of M. Sc. (Botany) prepared by faculty members of SoBT was placed before the expert members of the board for necessary discussion and deliberations. After detailed deliberations on the matter following was recommended by the external experts for preparation of detailed course curriculum of M. Sc. (Botany) program to be offered by SoBT from next Academic session.

- i. External Experts suggested modification in certain course titles.
- ii. It was also suggested to prepare the detailed course curriculum as per UGC guidelines and expertise of the faculty members
- iii. Expert members strongly recommended to check for overlap of course curriculum of B. Sc. and M. Sc. syllabi to avoid repetitions for the benefit of students.
- iv. Experts suggested to prepare the detailed course contents after consulting recent text books so that the course becomes descriptive and exciting
- v. Experts suggested lot of modifications in the course structure to balance out the work load of students for each semester.
- vi. Experts also suggested to offer Major project in IV semester as optional in lieu of two school electives of 3 credit each. It was suggested to keep it reserved for 25% of class strength on the basis of merit so that quality aspects of research are maintained

After taking into consideration the above recommendations and inputs received from all the members and after in-depth deliberations on the matter, extensive modification was done in the M. Sc. (Botany)

Course curriculum and accordingly the revised Course Structure and course contents is placed as Annexure-III.

Since the course structure has been revised in view of the suggestions of the external experts so the course structure placed at Annexure-III was approved by the board.

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

#### **11.4 To consider and approve the Course contents for Subsidiary Courses to be floated to students opting for Integrated B. Sc.-M. Sc. Courses in Mathematics/Physics/Chemistry**

The Agenda item was discussed and deliberated in the meeting and it was informed by Head SoBT, Dr. Sharada M. Potukuchi that the University Authorities intend to offer Integrated B. Sc. - M. Sc. Courses in Mathematics/Physics/Chemistry from Academic Session 2020. These courses will be interdisciplinary in nature and shall give a flavor of research to the students during their Undergraduate period of study.

In this context School of Biotechnology intends to offer subsidiary courses for students opting for Integrated B. Sc. - M. Sc. Courses in Mathematics/Physics/Chemistry as elective courses to be offered in first year of the degree program.

Details of the courses to be offered as subsidiary courses for students opting for Integrated B. Sc. - M. Sc. Courses in Mathematics/Physics/Chemistry prepared by Faculty Members of SoBT were placed before the board members for necessary and detailed deliberations.

The expert members after detailed deliberations on the matter recommended following points for the preparation of these courses.

- i. Courses offered as subsidiary courses should be of general awareness so that it attracts students from other disciplines.
- ii. Subsidiary Course II titled "Biomolecules" to be replaced with title "Molecules and Basic Processes of Life"
- iii. Course contents of Subsidiary Course IV titled "Applications of Biology" to be reframed so that the students of other disciplines are able to comprehend.



After taking into consideration the above recommendations and inputs received from all the members, subsidiary courses to be offered by SoBT to students opting for Integrated B. Sc.-M. Sc. Courses in Mathematics/Physics/Chemistry have been revised and the same is placed as Annexure-IV. Since the courses to be offered as subsidiary courses have been revised in view of the suggestions of the external experts so the course contents placed at Annexure-IV was approved by the board.

#### **Agenda Item No. 4:**

##### **11.5 To consider and approve the Course contents of Course “Research Publication and Ethics” (RPE) offered to Pre - Ph. D. Students as part of course work**

Dr. Shafaq Rasool, (Asstt. Prof., SoBT) presented the agenda item before the board members for seeking necessary deliberations on the matter. The board members were apprised that the university authorities intend to introduce a two-credit course on “Research Publication and ethics” as part of course work to Ph. D. students of SoBT as per UGC guidelines. The course is aimed to provide an awareness about publication ethics and research misconduct. In this School of Biotechnology has already started the teaching of course On Research Publication and ethics to Ph. D. students admitted in SoBT from the academic session Jan- May 2020.

The contents of the course have been prepared by Dr. Shafaq Rasool as per UGC model syllabus on Research Publication and ethics and was discussed in the meeting. After due deliberations the Board unanimously approved the course “Research Publication and ethics” as two credit courses offered to Ph. D. students as part of course work. The course contents are placed as Annexure V.

#### **Agenda Item No. 5:**

##### **11.6 To consider and approve the Panel of Experts for Conduct of Viva-Voce Examination of B. Tech. and M. Sc. Biotech students of SoBT**

Dr. Indu Bhushan Sharma, Asstt. Prof., SoBT presented the agenda item before the board members for seeking necessary deliberations on the matter. The board members were apprised that as per university guidelines external experts are invited for the evaluation of Project work of final year students of M. Sc. and B. Tech. students. In this a directive has been received from the higher authorities for providing a

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panel of experts approved by Board of studies for the evaluation of project work of M. Sc. and B. Tech. students. The experts should be from Academic Institutes working at the level of Professor/Associate Professor. In view of this the panel of experts prepared after receiving inputs from all the Faculty Members of SoBT was prepared and placed before the board for seeking suggestions and necessary approval.

The experts after discussion on the matter suggested to incorporate two more members in the Panel of experts as per below details :

- i. Prof. Pratap K. Pati, Head, Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab.
- ii. Prof. Mushtaq Bhat, Director Centre For Molecular Biology School of Life Sciences, Central University of Jammu, Rahya-Suchani (Bagla), District Samba, Jammu, (J&K).

Accordingly the revised panel of experts for the evaluation of project work of M. Sc. and B. Tech. students incorporating above two names has been prepared and approved by the Board and is placed as Annexure-VI.

#### **11.7 Any other item with the permission of the chair**

**To consider and approve the revised course contents and credits of Course “Research Methodology in Biotechnology”(BTL8013 ) offered to Ph. D. students of SoBT as a part of their Course work.**

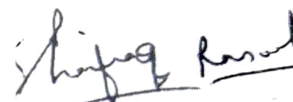
The Agenda item was placed before the Board Members by Dr. Sharada M. Potukuchi Assoc. Prof. and Head SoBT. The Board Members were apprised by Head SoBT that the course is already approved by Board of Studies of SoBT. However some minor modifications have been suggested in the course contents and as per the detailed syllabus the credits have been changed from 3-0-0=3 to 4-0-0=4 in view of the course contents being more elaborate and descriptive. The previous course contents of the course Research Methodology (BTL8011) are placed as Annexure-VII-A

The experts after due deliberations on the agenda item approved the revised course contents of Pre-Ph. D. coursework core course Research Methodology in Biotechnology (BTL8013) and is placed at Annexure- VII-B.

### **11.8 Vote of thanks**

Meeting ended with Vote of Thanks to External Experts and all the attendees of the meeting.

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



**Dr. Shafaq Rasool**  
**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.