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SHRI MATA VAISHNO DEVI UNIVERSITY
Sub Post Office, Pin-182320, Jammu and Kashmir, India
SCHOOL OF BIOTECHNOLOGY

SMVDU/SBT/2013/137/

Dated: 25th April, 2013

MINUTES OF THE FOURTH MEETING OF BOARD OF STUDIES
OF SCHOOL OF BIOTECHNOLOGY HELD ON APRIL 12, 2013 IN
CONFERENCE HALL, SBT, SMVD UNIVERSITY, KATRA

1. The following members attended the Meeting:

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| 1. Prof. V. Verma
Director, School of Biotechnology
Dean, College of Engineering, SMVDU | Chairman |
| 2. Prof. Saroj Mishra,
Deptt. of Biotechnology & Biochemical
Engineering, IIT Delhi | Expert Member |
| 3. Prof. Renu Sachar
Head Deptt. of Chemistry,
University of Jammu, Jammu | Expert Member |
| 4. Prof. M. K. Dhar, Professor and Head,
School of Biotechnology,
University of Jammu, Jammu | Expert Member |
| 5. Prof. V. K. Bhat
Director, School of Mathematics
Dean College of Sciences, SMVDU | Expert Member |
| 6. Dr. Ajay Koul
Director, School of Computer
Science and Engineering, SMVDU | Expert Member |
| 7. Dr. S. Potukuchi
Assistant Professor, SBT | Member & Secretary |
| 8. Dr. R. Chandra
Assistant Professor, SBT | Member |
| 9. Mr. P. S. Slathia,
Lecturer, SBT | Member |
| 10. Dr. P. Sharma,
Lecturer, SBT | Member |
| 11. Mr. Arvind Yadav
Lecturer, SBT | Member |
| 12. Dr. Shafaq Rasool
Lecturer, SBT | Member |
| 13. Dr. I. B. Sharma
Assistant Professor, SBT | Member |
| 14. Dr. R. Shankarayan
Assistant Professor, SBT | Member |
| 15. Dr. Rakesh
Assistant Professor, SBT | Member |

Dr. S. Vaishnavi, Lecturer, SBT (member), could not attend the meeting as she was on leave.

The Chairman of the Board welcomed all the members to the fourth meeting of Board of Studies and introduced new members of Board of Studies Prof. Renu Sachar, HoD Chemistry Deptt., Jammu University and Dr. Ajay Koul, Director, School of Computer Science and Engineering, SMVDU. He specially thanked the external members of the board Prof. Saroj Mishra, Prof. Manoj Dhar and Prof. V.K. Bhat for attending the meeting inspite of their busy schedule. He then requested the Board Secretary, Dr. Sharada Potukuchi Asstt. Professor SBT, to start the proceedings of the meeting as per the agenda circulated to the members.

- **Item No. 4.2 Consider and confirm of minutes of 3rd BOS meeting held on March 16, 2012**

The minutes of the 3rd Board of Studies meeting (March 16, 2012) were placed before the Board. Since no comments had been received from any member, the same were unanimously passed. (Copy of minutes attached as Annexure-1).

- **Item No. 4.3 Modification in contents and Title of M. Sc. (Biotechnology) Semester I course: Principles of Enzymology and its Lab course**

Dr. Preeti Sharma, Lecturer SBT, presented to the Board the revised contents of the Course 'Principles of Enzymology' and its lab course and changing the title from Principles of Enzymology to 'Applied Enzyme Catalysis' being more appropriate based on the contents of the course. All the members were in consensus of the proposal, as the topics offered in the course content were more pertaining to mechanism of enzyme catalysis. Prof Saroj Mishra suggested inclusion of the Text Book: Biochemical Engineering Fundamentals which has a Chapter on Applied Enzyme Catalysis edited by James Bailey and David Ollis (detailed revised course structure and contents are attached at Annexure-II).

- **Item No. 4.4 To consider and approve shifting of the course Principles of Enzymology and its Lab course (if renamed as Applied Enzyme Catalysis) offered in M. Sc. (Biotechnology) Semester I to Semester III**

Dr. Sharma further deliberated on the shifting of the course 'Applied Enzyme Catalysis' and its Lab course (renamed from Principles of Enzymology) from Semester I to Semester III, since it requires prerequisite knowledge of Biochemistry which is being taught in Semester I. All the members were in consensus of the proposal.

- **Item No. 4.5 To consider and approve the introduction of Lab course for Principles of Immunology course offered in M. Sc. (Biotechnology) Semester II**

Dr. Shafaq Rasool, Lecturer SBT, presented to the Board that the course contents of 'Principles of Immunology' are designed to deal with introduction to immunological techniques and their applications. Presently there is no laboratory course where students can perform experiments pertaining to the field of Immunology and therefore advocated inclusion of a laboratory course in the same. This course is designed to help students

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integrate the information they have acquired from their lecture based course in Principles of Immunology SBTL 106P and help the students to experience and address immunological questions through experimentation. All the members were in consensus of the proposal, however, they expressed the view that this may considerably increase the credit load of the students. The members were informed by the secretary that this matter has been considered and the revised semester wise course contents is also being put up for consideration (detailed course structure and contents are attached at Annexure-III). As regards conduct of the practical classes and non-availability of the specialized equipment for the laboratory course on Immunology in SBT, Prof. Verma informed the members that under the MoU with IIM, Jammu some of the experiments involving specialized equipment can be held there till such facilities are put in place in SBT.

- **Item No. 4.6 To consider and approve the change in title and content, and increase in credit of the course Bioprocess Engineering being offered in M. Sc. (Biotechnology) Semester III**

Mr. Arvind Yadav, Lecturer SBT, put forth before the Board that since the course 'Bioprocess Engineering' has no contents from the technology side and therefore its course contents have been redrafted including the technology part and renamed as 'Bioprocess Engineering and Technology'. The members agreed to his proposal, and approved both the change in name of the course to as well as the revised course contents (detailed course structure and contents are attached at Annexure-IV).

- **Item No. 4.7 To consider the introduction of the course Bioprocess Engineering and Technology Lab in M. Sc. (Biotechnology) Semester III curriculum and to approve its course content**

Mr. Arvind Yadav presented to the Board the introduction of a lab course in Bioprocess Engineering and Technology since without a lab course the students cannot understand the theoretical aspects of Bioprocess Technology. The members were in consensus of the proposal, and approved the same (detailed course structure and contents are attached at Annexure-V).

- **Item No. 4.8 To consider and approve shifting of the course 'IPR and Entrepreneurship' offered in M. Sc. (Biotechnology) from Semester III to Semester I**

Dr. S. Potukuchi, Asstt. professor SBT, placed before the Board that in view of the changes suggested above in shifting and addition of new courses in M. Sc. (Biotechnology) Semester III the credit value would exceed the permissible limit. She therefore, proposed shifting of the course 'IPR and Entrepreneurship' from Semester III to Semester I to balance the credit limit and also proposed course code: SBTL 109P and with no alteration in the course contents and credits. The members agreed to her proposal and shifting of the course was approved.

- **Item No. 4.9 To consider and approve shifting of the course Biostatistics and Research Methodology offered in M. Sc. (Biotechnology) Semester III to Semester I**

Dr. Potukuchi based on the same argument as in 4.8, also proposed shifting of the course 'Biostatistics and Research Methodology' from Semester III to Semester I with the proposed course code: SBTL 111P and with no alteration in the course contents and credits. The members agreed to her proposal and shifting of the course was approved.

- **Item No. 4.10 To consider and approve reducing the Credits of the Elective course offered in M. Sc. (Biotechnology) Semester III**

Mr. P.S. Slathia, Lecturer SBT, placed before the Board that in view of the changes suggested in shifting and addition of new courses in M. Sc. (Biotechnology) Semester III the credit value shall exceed the permissible limit. He proposed reducing the credit value of the Elective course from 3-2-0 to 3-0-0 = 3 with no alteration in the course contents. The members however, suggested that suitable assignments could be given to the students instead of seminars and the choice should be left to the discretion of the concerned Course Coordinator. The members agreed to her proposal and shifting of the course was approved (detailed course structure and contents are attached at Annexure-VI).

- **Item No. 4.12 Inclusion of some courses as electives in the B. Tech. (IBT) Program:**

Dr. R. Shankarayan Asstt. professor SBT, placed before the Board the proposal for introduction of two additional Elective courses in the B.Tech. program with reference to latest developments in Biotechnology and the upcoming new subjects e.g., Biopharmaceutical Engineering; Nanoscience & Nanotechnology. Prof. Mishra was of the opinion that the teaching load of the concerned faculty be taken into consideration before floating the additional elective courses. Prof. Bhat enquired to know if the courses would also have a lab requirement. Dr. Shankarayan clarified that since the course is an elective course it would not have the lab requirement. The members agreed to his proposal and approved the inclusion of the additional Elective courses in the B.Tech. program (detailed course structure and contents are attached at Annexure-VII).

- **Item No. 4.13 To consider and approve proposed syllabus and curriculum for the proposed M. Sc. (Industrial Biotechnology) program**

Prof. Verma informed the board that in 2011 Department of Biotechnology, New Delhi had been approached for inclusion of M.Sc. (Biotechnology) course of SMVDU in DBT's All India Programme and to be approved as a centre for its financial assistance. However, in discussion with the then Vice Chancellor SMVDU, Prof. RNK, Bamezai, DBT informed him that no new centres for the M.Sc (Biotechnology) programme were being approved by the department and the university should instead participate in its M.Sc. (Industrial Biotechnology) program for financial assistance. Prof. Bamezai had agreed to the suggestion and asked Prof. Verma to send such a proposal to DBT for its financial assistance. Prof. Verma presented the proposal to the DBT Task Force at New Delhi in Feb., 2012. Now the program has been approved for Financial Assistance of 1.61 crores for a period of 3 years by DBT, GoI with the condition that the current course on M.Sc (Biotechnol.) be merged with the new programme on M. Sc. (Industrial Biotechnology). The letter from DBT categorically states that the undertaking to that effect should come from the VC of the university and only after that the financial assistance would be released. Prof. Verma informed

the members that the matter had earlier been discussed in the school faculty meetings and sought the opinion of the external members on the issue. Prof. Mishra from IITD was of the opinion that a student who would pursue M. Sc. (IBT) might have restricted choice as a prospective candidate for Ph. D. registration by other Universities/Institutions, etc. in India. She suggested that since we are already running a B. Tech. (IBT) Program it would be better to start M.Tech. (IBT) course where in the students presently pursuing B.Tech. (IBT) would be eligible to continue further studies at SMVDU itself rather than look for other institutions. Prof. Dhar from Jammu university informed the members that presently there are 6 Universities/Institutions in India who are running DBT funded M.Tech. (Biotechnology) program and the possibility of requesting DBT to fund the M.Tech. (IBT) might be considered favorably by DBT. However, Prof. Verma informed the board that the present school faculty might not be qualified enough to start the M.Tech (IBT) course immediately. He further referred to the school faculty meetings wherein the matter had been debated earlier thoroughly and intimated the external members that the faculty was of the opinion that it would not be very advisable to merge the two courses, as desired by DBT, at this stage without knowing the response of M.Sc (IBT) programme to be funded by DBT. He instead proposed that we may request DBT to permit the school to initially evaluate the response of the M.Sc (IBT) programme and if the response is satisfactory the school might start tapering the M.Sc(Biotechnol) programme in due course of time. The members agreed to the above suggestion and felt that the existing M. Sc. (Biotechnology) was running successfully and should not be discontinued without evaluating the response of the proposed M.Sc (IBT) programme.

- **Item No. 4.14 To consider and approve extension of registration period for two research scholars of SBT**

Prof. Verma put forth before the Board the applications received from two research scholars presently pursuing PhD. (Biotechnology): Ms. Reena Singh (Entry No. 07PHDSBT01) and Mr. Munish Sharma (Entry No. 07PHDSBT02) who have completed tenure of 5 years as on 23.11.2012 and 27.11.2012 respectively as is permissible in the guidelines of the university. Prof. Mishra and Prof. Sachar asked the respective supervisors Dr. Shafaq Rasool, Lecturer and Dr. Sharada Potukuchi, Asst. Prof., SBT, the reasons for the extension. The members were informed that the students are presently compiling their results and have requested for extra time in view of the delay in establishing the Lab facility and necessary equipments for their research work. The members approved for the extension of their registration tenure by two years.

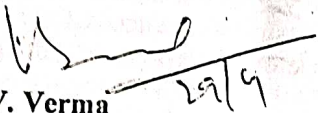
- **Item No. 4.15 To consider and include the name of Dr. Riyaz Ul- Hassan S., Scientist from Indian Institute of Integrative Medicine (IIM), Jammu as a registered Ph. D. supervisor for jointly guiding students**

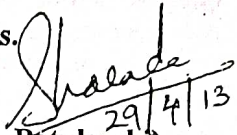
Prof. Verma put forth before the Board the application along with his resume from Dr. Rlyan Ul- Hassan S., Scientist, Indian Institute of Integrative Medicine (IIM), Jammu (copy enclosed as Annexure VIII) for his registration as a Ph. D. supervisor/co-supervisor as per the MoU with the institute. already for jointly guiding students for Ph. D. in Biotechnology as per SMVDU rules. The members approved his request for registration as a Ph. D. supervisor/co-supervisor in SMVDU.

- Item No. 4.16 Any other item with the permission of the chair

Prof. Verma informed the members that a proposal is being prepared for initiating an Integrated B. Sc. + M. Sc. course in Sciences in collaboration with Schools of Mathematics, Biology & Chemistry and Physics. Prof. Bhat described the overview of the course structure. Dr. Ajay Koul suggested the need for introduction of an elective course in "Open Source Technology" in the Integrated Program which could include invited lectures from School of Computer Science and Engineering. This course could be designed on elementary basis including basics of Hardware, Software, Tools and Techniques which would benefit the students since the entry level of the course is 10 + 2 students. The details of the programme are being developed & will be presented in the next meeting of the board. The members appreciated the initiative and suggested that the students who would opt out of the programme at the B.Sc level should be given the Honours Degree and the programme should also be named as B.Sc (Hons)/ M.Sc (Hons).

The Meeting ended with a vote of thanks to the chair and external experts.


Prof. V. Verma
Chairman BoS SBT


(S. Potukuchi)
Secretary, BoS SBT

Copy to:

- Registrar, for information & needful please.
- PS to VC for kind information of the Hon'ble Vice Chancellor.
- All members concerned for information.....
- Concerned File.