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Central University of Punjab

Ref no: CUPB/DB/2020/MV/58

Dated: 17-02-2020

Subject: Minutes of the Meeting of Board of Studies of Department of Biochemistry for Academic Session 2020-2021

A meeting of Board of Studies of Department of Biochemistry was held on 17 February, 2020 at 11:00 am in the committee room (Administration Block), CUPB.

The agenda of the meeting is as given below:

1. To approve the name change of M.Sc. program from M.Sc. Life Sciences (specialization Biochemistry) to M.Sc. Biochemistry from academic session 2020-21.
2. To change Project in semester III and IV to Dissertation/ Project.
3. To review and approve the proposed changes, course structure and syllabus for M.Sc. in Biochemistry for academic session 2020-21.
4. To review and approve the proposed changes, course structure and syllabus for Ph.D. Biochemistry for academic session 2020-21.
5. To discuss curriculum feedback from students, alumni, stakeholders, faculty members, students and parents.

The agenda items were placed before the BoS. The agenda items I and II were approved as proposed. The following changes were proposed to be incorporated as part of agenda item III:

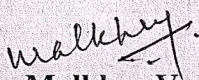
Courses Added/Revised	Courses Removed/ Moved
<u>Semester I</u> 1. Bioenergetics and Intermediary Metabolism (3 Cr.): Previously Metabolism-I 2. Microbial Biochemistry (3 Cr.) 3. Biomolecules and Bioanalytical Techniques (4 Cr.) 4. Biochemistry Practical-I (6 Cr.) 5. Cell Biology: Content was revised	1. Biochemistry (Removed) – The content was moved to three courses: Bioenergetics and Intermediary Metabolism, Biomolecules and Bioanalytical Techniques, and Metabolism 2. LS practical-I: Most of the content was moved to Biochemistry Practical-I. 3. Essentials of Genetics: Moved to third semester 4. Value Added Course: Moved to fourth semester.
<u>Semester II</u> 1. Principles of Biotechnology IDC (2 Cr.) 2. Biochemistry Practical-II (6 Cr.) 3. Metabolism: Previously Metabolism-II 4. Immunology: Content was revised	1. LS practical-II (Removed): The content was moved to Biochemistry Practical-II. 2. Biochemistry Practical-I: The content was moved to Biochemistry Practical-II. 3. Metabolism-I: The content was moved to two courses: Bioenergetics and Intermediary Metabolism, and Metabolism
<u>Semester III</u> 1. Plant Biochemistry (3 Cr.) 2. Biochemistry Practical-III (3 Cr.) 3. Science and Society (Value added course, 1 Cr.) 4. Secondary Metabolism and Metabolic Engineering (3 Cr.): Moved from Semester IV 5. Essentials of Genetics (3 Cr.): Moved from first semester	1. Metabolism-II (Removed): Content moved to Metabolism 2. Animal Physiology moved from core course to discipline elective (4 Cr.) 3. Cell culture techniques (Removed) 4. Biochemistry Practical-II content was moved to Biochemistry Practical III and syllabus was revised 5. Clinical and Nutritional Biochemistry divided into two courses and moved to semester IV
<u>Semester IV</u> 1. Clinical Biochemistry (4 Cr.) 2. Nutritional Biochemistry (Discipline Elective, 4 Cr.) 3. Science and Society (Value added course, 1 Cr.)	1. Plant Physiology (Removed): Part of the content moved to Plant Biochemistry 2. Clinical Diagnostics (Removed)

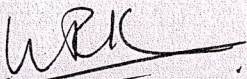
The external experts were of the opinion that the proposed changes are in line with evolving the programs in progressive way which will benefit students. The external experts suggested some changes in the courses and their content.

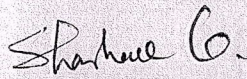
1. Semester I: Bioenergetics and Biomolecules combined into one course; Bioanalytical techniques will be one course; Parts of intermediary metabolism and metabolism to be shifted to Metabolism-I; Contents of Microbial Biochemistry, Cell Biology, Biochemistry Practical-I and Principles of Biochemistry (ID course) to be revised.
2. Semester II: Course content of Immunology, Molecular Biology, Enzymology and Enzyme Technology and Biochemistry Practical-II to be revised. Metabolism to be changed to Metabolism-II with revised course content.
3. Semester III: Secondary Metabolism and Metabolic Engineering to be changed to Secondary Metabolism and moved to Discipline Elective. Animal Physiology to be changed to Human Physiology and moved to core. Biochemistry Practical-III content to be revised.
4. Semester II: Course content of Clinical Biochemistry to be revised.

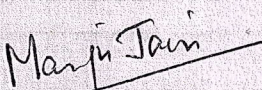
Addition of Research and Publication Ethics (2 Cr.) course to Ph.D. course work as mandated by UGC, was approved as part of agenda item IV. The course content of Research Methodology and Computer Applications will be revised to avoid overlap with Research and Publication Ethics. The suggestions of students/alumni and parents based on feedback which is part of agenda item V are already incorporated in the revised curriculum. The curriculum files will be revised and sent to all BoS members including external members for approval.

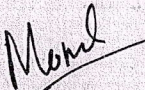
The above agenda items placed before the BoS were approved and recommended to be placed in the School Board for further approval.

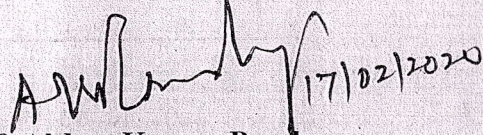

Dr. Malkhey Verma
 Chairperson and HoD
 Associate Professor
 Dept. of Biochemistry

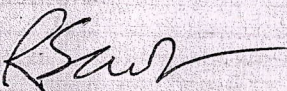

Prof. Ramakrishna Wusirika
 Professor
 Dept. of Biochemistry

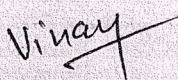

Dr. Shashank Kumar
 Assistant Professor
 Dept. of Biochemistry

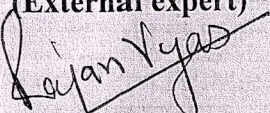

Dr. Manju Jain
 Assistant Professor
 Dept. of Biochemistry

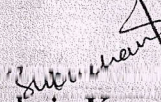

Dr. Monisha Dhiman
 Professor and HoD
 Dept. of Microbiology

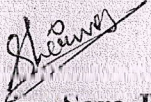

Prof. Abhay Kumar Pandey
 Professor
 Dept. of Biochemistry
 University of Allahabad
 (External expert)

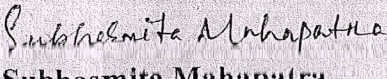

Prof. Rajat Sandhir
 Professor
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 Panjab University, Chandigarh
 (External expert)


Dr. Vinay Kumar
 Assistant Professor
 Special Invitee


Dr. Rajan Vyas
 Ramalingaswami Fellow
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 PhD Student
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