

Central University of Punjab

Ref no:

Dated: 24-05-2021

Subject: Minutes of the Meeting of Board of Studies of Department of Biochemistry for Academic Session 2021-2022

A meeting of Board of Studies of Department of Biochemistry was held on May 24, 2021 at 9:00 am through online mode.

The agenda of the meeting is given below:

1. To review and approve the proposed changes, course structure and syllabus of M.Sc. in Biochemistry for academic session 2021-22.
2. To review and approve the proposed changes, course structure and syllabus of Ph.D. Biochemistry for academic session 2021-22.
3. To discuss curriculum feedback from stakeholders.
4. To nominate external experts for evaluation of Masters' dissertation.
5. To nominate visiting faculty.

The agenda items were placed before the BoS.

Item no. I. Changes in course structure and syllabus of M.Sc. Biochemistry in line with NEP-2020 and confer to university guidelines.

Graduate attributes for the program were added. Learning outcomes were added to new courses and revised for existing courses. Web resources were added.

Courses Added/Revised	Courses Removed/ Moved
Semester I 1. Biochemistry Practical-I: Credit hours reduced to 3. Practicals related to Microbial Biochemistry removed. 2. Research Methodology (3 Cr.): Research Methodology and Biostatistics in semester II was divided into two courses. 3. Four options for Discipline Elective courses added: Genetics and Animal Cell Culture were added. Genetics was moved from third semester. Two other options, Evolutionary Biology and Nanobiology from other departments were added. 4. Principles of Biotechnology (2 Cr. Interdisciplinary course) moved from second semester to first semester.	1. Microbial Biochemistry (Removed) – The content was moved to Plant and Microbial Biochemistry in third semester 2. Metabolism-I removed.
Semester II 1. Biochemistry Practical-II: Credit hours reduced to 4. Clinical Biochemistry practicals were moved to semester III. 2. Metabolism: Metabolism-I and II combined into Metabolism. Unit on coenzymes is part of Enzymology and membranes is part of Cell Biology. Xenobiotics metabolism is now part of the course, Secondary Metabolites and Xenobiotics Metabolism. 3. Discipline Elective Courses: Developmental Biology and Secondary Metabolites and Xenobiotics Metabolism were added. Five options from other	1. Research Methodology and Biostatistics was removed from semester II. It was divided into two courses. Research Methodology was moved to semester I and Biostatistics was moved to semester III. 2. Principles of Biotechnology (2 Cr. Interdisciplinary course) moved to first semester.

<p>departments were added: Cancer Biology, Environmental Microbiology, Microbial Pathogenicity, Molecular and Cellular Oncology, and Stem Cell and Regenerative Medicine.</p> <p>4. Entrepreneurship course: New course added.</p> <p>5. A new Value Added Course, Forensic and Molecular Diagnostics was added.</p>	
<p>Semester III</p> <p>1. Biostatistics was added.</p> <p>2. Plant and Microbial Biochemistry: Content from Plant Biochemistry and Microbial Biochemistry was combined.</p> <p>3. Clinical Biochemistry moved from semester IV.</p> <p>4. Genetic Engineering moved from semester IV Discipline Elective to semester III core.</p> <p>5. Discipline Elective Courses: Human Physiology moved from core to discipline elective. Clinical Diagnostics added as Discipline Elective. Three options from other departments were added: Pharmaceutical Microbiology and Molecular Stress Physiology.</p> <p>6. Recent Advances in Life Sciences (Discipline Enrichment courses) was added. Previously, two parts of this course was part of semester IV.</p> <p>7. Research proposal was added.</p>	<p>1. Essentials of Genetics moved to semester I as discipline elective</p> <p>2. Science and Society (Value added course) removed.</p> <p>3. Principles of Ecology, Evolution and Developmental Biology removed.</p> <p>4. Secondary Metabolites and Metabolic Engineering removed.</p>
<p>Semester IV</p> <p>1. Dissertation replaces Project.</p>	<p>1. Seminar-II removed.</p> <p>2. Science and Society (Value added course) removed.</p> <p>3. Clinical Biochemistry moved to semester III.</p> <p>4. Genetic Engineering moved to semester III.</p> <p>5. Recent Advances in Life Sciences I and II combined into one course and moved to semester III.</p> <p>6. Nutritional Biochemistry was removed from Discipline Elective</p>

Item no. II. Changes in Ph.D. Biochemistry program for academic session 2021-22.

- The total number of courses were reduced from four to three and the number of credits were reduced from 14 to 10 by removing "Any Other Life Sciences Ph.D. Course". This will enable students to focus on research. The course content of Research Methodology and Computer Applications was revised.

Item no. III. Discuss curriculum feedback from stakeholders.

- Curriculum feedback from different stakeholders was discussed.

Item no. IV. To nominate external experts for evaluation of Masters' dissertation.

- The names of external experts were proposed for evaluation of Masters' dissertation.

Item no. V. To nominate visiting faculty.

The names of visiting faculty were proposed for nomination by BoS.

The following changes/comments were proposed:

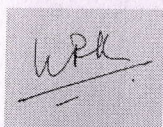
Item no. I: The external experts were of the opinion that the proposed changes are in line with evolving the programs in progressive way as per NEP-2020 which will benefit students. The external experts suggested some changes in the courses and their content. Minor changes in the content of Biochemistry Practicals (Enzymology) and Research Methodology courses were suggested.

Item no. II: The external experts suggested that the course content of Research Methodology and Computer Applications be revised to include handling of animals and experiments with animals. Minor changes in computer applications part were also suggested. The external experts suggested that the course content of Advanced Biochemistry be revised with reference to units 2 and 3.

Item no. III, IV and V: Feedback from alumni and parents of current students was discussed. Suggestions regarding curriculum were already incorporated in the proposed changes for 2021-22 session. The names of external experts for evaluation of Masters' dissertation and visiting faculty were discussed. The names of fifteen external experts were nominated for evaluation of Masters' dissertation: Prof. Sunil Arora, Prof. Geetanjali Goyal, Prof. Suneel Kateriya, Dr. Hridayesh Prakash, Prof. Umesh Chand Singh Yadav, Dr. Manoj Kumar Tripathi, Prof. Gyanendra Kumar Sonkar, Prof. Pramila Tiwari, Prof. B.K. Bajaj, Prof. Pramod Ramteke, Dr. Vidya Shrikant Gupta, Dr. Milind Ratnaparkhe, Prof. Pratap Kumar Pati, Prof. M. S. Reddy and Dr. Rahul Shrivastava. The names of five eminent academicians/researchers were nominated for Visiting Faculty: Prof. Prashant Mishra, Prof. R. S. Verma, Dr. Vidya Shrikant Gupta, Prof. Greg Matlashewski and Prof. Satyajit Rath.

All revised files for the above agenda items were sent to BoS members and were approved.

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



Prof. Ramakrishna Wusirika
Chairperson and HoD
Dept. of Biochemistry

Dr. Shashank Kumar
Assistant Professor
Dept. of Biochemistry

Dr. Manju Jain
Assistant Professor
Dept. of Biochemistry

Prof. Monisha Dhiman
HoD
Dept. of Microbiology

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

Prof. Rajat Sandhir
Dept. of Biochemistry
Panjab University, Chandigarh
(External expert)

Dr. Harmesh Sahay
Assistant Research Scientist
ITC Analytical Services
Agribusiness Division, ITC Limited
(Co-opted External Member)

Abhishek Kumar Verma
Assistant Professor
Department of Life Sciences
Mewar University, Gangrar
(Co-opted Alumni)

Dr. Vinay Kumar
Assistant Professor
Dept. of Biochemistry
Special Invitee

Dr. Ravindresh Chabra
Assistant Professor
Dept. of Biochemistry
Special Invitee