

# DAV UNIVERSITY, JALANDHAR

## Department of Microbiology

### Proceedings of the Board of Studies Meeting

An online meeting of the Board of Studies in the Department of Microbiology was held on 7<sup>th</sup> May, 2021 at 11:00 am.

Following members were present in the meeting:

1. Dr. Gurvinder Singh Kocher  
(External Expert)  
Principal Microbiologist-cum-Head  
Department of Microbiology, Punjab Agricultural University, Ludhiana
2. Dr. Yogesh Kumar  
Coordinator  
Department of Microbiology, DAV University, Jalandhar
3. Dr. Rashmi Sharma  
Assistant Professor  
Department of Microbiology, DAV University, Jalandhar
4. Dr. Deepak Kumar  
Assistant Professor  
Department of Microbiology, DAV University, Jalandhar
5. Dr. Anil Kumar  
Assistant Professor  
Department of Microbiology, DAV University, Jalandhar

It was discussed and unanimously resolved to approve the proposed course schemes and syllabi of the courses of reading for the following programmes of batch 2021:

- a) B.Sc. (Hons.) Microbiology
- b) M.Sc. (Hons.) Microbiology
- c) Ph.D. Microbiology

**It was discussed and unanimously agreed upon to make following changes in the B.Sc. (Hons.) Microbiology syllabus:**

- The courses 'Cell Biology' and 'Cell Biology Laboratory' (BTY121 and BTY122) have been shifted from the 6<sup>th</sup> semester core courses to 2<sup>nd</sup> semester core courses.
- ZOO154 and ZOO154 (Zoo Diversity and Zoo Diversity Laboratory) have been deleted from the generic elective courses.
- The courses BOT241 and BOT242 ('Plant Physiology and Metabolism' and 'Plant Physiology and Metabolism Laboratory') have been replaced with BTY397 and BTY398 ('Food Biotechnology' and 'Food Biotechnology Laboratory').
- The courses 'Food and Dairy Microbiology' and 'Food and Dairy Microbiology Laboratory'

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(MIC227 and MIC228) have been shifted from the 4<sup>th</sup> semester core courses to 6<sup>th</sup> semester core courses.

- The courses MIC331 and MIC332 ('Medical Microbiology' and 'Medical Microbiology Laboratory') have been replaced with MIC331A and MIC332A ('Fundamentals of Clinical Microbiology' and 'Fundamentals of Clinical Microbiology Laboratory').
- The courses 'Bioanalytical Tools' and 'Bioanalytical Tools Laboratory' (BTY361 and BTY362) have been shifted from the 2<sup>nd</sup> semester core courses to 4<sup>th</sup> semester core courses.
- The courses 'Fundamentals of Molecular Biology' and 'Fundamentals of Molecular Biology Laboratory' (BTY241A and BTY242A) have been shifted to from 4<sup>th</sup> semester core courses to 4<sup>th</sup> semester generic elective.
- The courses 'Microbial Biotechnology' and 'Microbial Biotechnology Laboratory' (MIC345 and MIC346) have been shifted to from 5<sup>th</sup> semester discipline specific course to 4<sup>th</sup> semester core course.
- The courses 'Plant Pathology' and 'Plant pathology Laboratory' (MIC347 and MIC348) have been shifted to from 6<sup>th</sup> semester discipline specific course to 5<sup>th</sup> semester discipline specific course.
- The courses 'Proteins and Enzymes' and 'Proteins and Enzymes Laboratory' (BCH218 and BCH219) have been shifted to from 4<sup>th</sup> semester generic elective to course to 6<sup>th</sup> semester elective course.
- A new practical i.e., "Biochemical characterization of bacteria" was added in the course MIC114.
- Addition of new topic "Coronavirus disease" in the UNIT-III in the course MIC331.
- Addition of new practical "Isolation of dye degrading bacteria" in the course MIC224.
- Addition of new topic in the UNIT-II "introduction to innovative food packaging techniques" in the course MIC227.
- Rearrangement of topics in the course MIC353.
- The syllabi of following courses have been updated in the course scheme and syllabi as per the BOS meetings of the respective departments: BTY361, BTY362, BTY393A, BTY394A, BTY241A, BTY242A, BTY243, BTY244, BTY395, BTY396, BTY121, BTY122, BCH101, BCH102, BCH216, BCH217, BCH218, and BCH219.
- The courses BTY393 and BTY394 ('Virology' and 'Virology Laboratory') have been replaced with BTY393A and BTY394A ('Basic Virology' and 'Basic Virology Laboratory').
- The course code BTY241 and BTY242 (Molecular Biology & Molecular Biology Laboratory) have been replaced with BTY241A and BTY242A (Fundamentals of Molecular Biology & Fundamentals of Molecular Biology Laboratory).
- Addition of new practical in BCH102 i.e., "Demonstration of Lamberts Beer law for paranitrophenol".

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It was discussed and unanimously agreed upon to make following changes in the M.Sc. (Hons.) Microbiology syllabus:

- The courses 'Soil and Environmental Microbiology' and 'Soil and Environmental Microbiology Laboratory' (MIC545 and MIC546) have been shifted from the 4<sup>th</sup> semester core courses to 1<sup>st</sup> semester core courses.
- The courses 'Biological Macromolecules' and 'Biological Macromolecules Laboratory' (BCH529 and BCH530) have been shifted from the 1<sup>st</sup> semester core courses to 1<sup>st</sup> semester open courses.
- The courses 'Molecular Biology' and 'Molecular Biology Laboratory' (BTY511 and BTY512) have been shifted from the 3<sup>rd</sup> semester open elective to 1<sup>st</sup> semester open elective courses.
- The courses 'Clinical Microbiology' and 'Clinical Microbiology Laboratory' (MIC543 and MIC544) have been shifted from the 1<sup>st</sup> semester open elective to 2<sup>nd</sup> semester core courses.
- The courses 'Recombinant Technology and Recombinant Technology Laboratory' (BTY521 and BTY522) have been shifted from the 4<sup>th</sup> semester to 2<sup>nd</sup> semester open elective courses.
- The course 'Bioanalytical Techniques' (BCH501) is added to 3<sup>rd</sup> semester open elective course.
- The courses 'Advances in Microbiology' and 'Advances in Microbiology Laboratory' (MIC547 and MIC548) have been shifted from the 2<sup>nd</sup> semester to 4<sup>th</sup> semester core courses.
- Deletion of following topics from the course code MIC531 because of repetition in the course code MIC550: "Diauxic growth, Maintenance of population in exponential phase, Catabolism vs. anabolism, Energy currency and reducing power of a living cell, Fermentation vs. aerobic and anaerobic respiration".
- Deletion of the following practical's from the course code MIC532 because of repetition: "Spread plate technique, Pour plate technique"
- Addition of practical in the course code MIC534: "Phylogenetic tree construction".
- Addition of practical in the course code BCH503:
  - Separation of restricted DNA fragments using Agarose gel electrophoresis.
  - Separation of mixture of proteins using SDS-PAGE.
  - Analysis of enzyme activity in a mixture of proteins using zymography.
- Addition of practical in the course code MIC546: "Isolation of dye degrading bacteria from environmental samples"
- Addition of new topic i.e., "Ethics in research" in the course code MIC540.
- Addition of new topic i.e., "Innovative food packaging techniques" in the course code MIC637.
- Syllabi of the following courses have been updated and added to the microbiology syllabus as per the BoS meetings of the respective departments: BTY641, BTY521, BTY522, BTY511, BTY631, BTY633, BTY681, BTY637, BCH529, BCH530, BCH501 and BCH503.

It was discussed and unanimously agreed upon to make following changes in the Ph.D. Microbiology syllabi:

- The course 'Advances in Genomics, Proteomics and Metabolomics' (BTY805) has been added as an elective course.
- The course 'Research and Publication ethics (MIC806)' has been introduced as a compulsory

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course.

Signatures of members present:



1. Dr. Gurvinder Singh Kocher



2. Dr. Yogesh Kumar



3. Dr. Rashmi Sharma



4. Dr. Deepak Kumar



5. Dr. Anil Kumar