


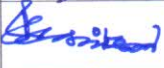

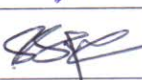
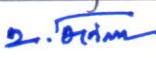



HINDUSTHAN COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)
COIMBATORE-641 028
CONTROLLER OF EXAMINATIONS

BOARD OF STUDIES MEETING IN BIOTECHNOLOGY
(for the Academic year 2020-2021)
Attendance Report

Date: 30.07.2021

Time: 10.00 AM – 01.00 PM

Venue: PG Biotechnology Lab

	Name	Designation	Signature
Chairman	Dr. G. RAJALAKSHMI	Professor and Head	
Members (Internal)	1. Dr. P. SENTHILKUMAR	Associate Professor	
	2. Dr. S. G. ANTONY GODSON.	Associate Professor	
	3. Dr. S. GANESH	Assistant Professor	
	4. Dr. U. SURIYAKALAA	Assistant Professor	
	5. Dr. P. KARTHIGA	Assistant Professor	
	6. Dr. D. BHARATHI	Assistant Professor	
	7. Dr. A. MANJU	Assistant Professor	
External (Subject Experts)	1. Dr. K. ABDHUL	Associate Professor and Head	Online
	2. Dr. P. ARUN	Associate Professor	Online
Industrial Expert	Dr. S. JEGAN	Scientist	Online
Alumni	Dr. D. JAYASHEELA	Associate Professor	Online
University Nominee	Dr. C. DEEPA	Assistant Professor and Head	Online



MINUTES OF BOARD OF STUDIES MEETING

The following points were discussed in the **BOARD OF STUDIES** meeting held on 30.07.2021 from 10.00 am to 02.00 pm in the Department of **BIOTECHNOLOGY** through online/offline mode.

1. Chairman of Biotechnology Department, Dr. G. Rajalakshmi welcomed and introduced the Internal Members, External Members - Subject Expert, Industrial Expert, Alumni and University Nominee.
2. Dr. G. Rajalakshmi, Chairman explained all the syllabus and revisions carried out from 2019-2020, 2020-2021 and 2021-2022 of UG, 2020-2021 and 2021-2022 of PG and 2021 – 2022 for Diploma in Microbial Biotechnology to the Board members.
3. Chairman explained about Program Educational Objectives (PEO), Program Outcomes (PO), Program Specific Outcomes(PSO) and Mapping of Outcomes to the Board members
4. Chairman explained about the following points to the Board Members
 - Changes made in the syllabus and explained about the Distribution of Marks (Internal and External) for UG, PG and Diploma and explained about the Introduction of Fast Track System for UG and PG students admitted from 2021 – 2022 and onwards.
 - Introduction of Open Electives, Institutional Training, Internship, Project, Student Development Report, Extension Activity and Self Study Course for UG Programme and Introduction of Open Electives, Institutional Training, Internship, Mini Project, Extension Activity and Student Development Report for PG programme
5. Principal of the College entered the Biotechnology Board Meeting at 11.00 am and welcomed the Board members. He threw a light on the New Scheme introduced for both UG and PG programme during 2021-2022 and also explained about the introduction of Fast track system and its benefits and Student Development Report for UG and PG programme.
6. **University Nominee Dr. C. Deepa** suggested confirming the TANSHE scheme for UG programme as the Language and English Courses were restricted to First Year Students in 2021 -2022 Scheme. She also suggested bringing about Common Elective papers for Biosciences Departments. She insisted on elaborating topics in the Unit V – Metabolism of Biochemistry (21BTU08), Analytical and Preparatory Centrifuge in Bioinstrumentation (21BTU05) and also to remove trp operon topic from Unit V of Molecular Biology (20BTU10) and Gene rearrangement technique in Immunology (20BTU14), Introduction of Aminoacids in Unit III of Biochemistry and Metabolism (21BTP03), to separate waste management as Toxic and Non toxic in Unit III of Environmental Biotechnology (20BTP23). Teaching methodology and hours allotment for Practicals has to be checked and updated.
7. **The Subject Experts Dr. K. Abdhul and Dr. P. Arun** suggested having a look into the Fast Track System because it has a direct impact on Staff Workload for the IV and VI semester of PG and UG respectively. Also they insisted allowing student to opt any NPTEL Course during their period of study. They informed to include Evidences for DNA as Genetic material instead of transduction, transformation and conjugation in Molecular Biology (20BTU10), Introduction of Upstream Process in Fermentation Technology in Unit II/III (19BTU26), Growth Curve, Preservation and Maintenance of Microbes in Unit II of Applied Microbiology (21BTP02), Recent Developments to be included in Unit III of Biotechniques (20BTP18B). **Dr. K. Abdhul** discussed about introducing Human Physiology (20BTU26C) prior to introduction Human Pathology (20BTU15B) in elective, Introduce Shuttle vectors in Unit II of Genetic Engineering (21BTP09). **Dr. P. Arun** suggested including a topic on Infringement in II Unit of IPR, Biosafety and Bioethics


HEAD OF THE DEPARTMENT
PG & Research Dept. of Biotechnology
Hindusthan College of Arts and Science
Coimbatore - 641 028



- (19BTU20). He also suggested on introducing a course on Clinical Research and Data Management as it may promote placement opportunities.
8. **The Industrial Expert Dr. S. Jegan** suggested including topics related to recent trends and providing knowledge on Molecular Tools and Introduction to Soil Microbiology. Along with subject experts he insisted on promoting Elective papers to be an Open Choice and not to restrict to two papers as the syllabus may outdate. He suggested to include HPLC/HPTLC in Bioinstrumentation (21BTU05), Buffer topic in Unit II of theory and Practical of Allied II/Biochemistry (21BTU08), Sterilization Techniques, segregate Unit V topics based on organism causing infection in Microbiology (20BTU09/21BTU06), Gene rearrangement technique in Immunology (20BTU14), Shuffling of Units and rearrangement in Molecular Biology (20BTU10), introduction of Drug Delivery methods and Gene Therapy, DNA based diagnostics in Unit IV and V of Clinical Biotechnology (20BTU15A). Addition of Green Nanotechnology in Bio-nanotechnology (19BTU23B) and climate change in Environmental Biotechnology (19BTU27); Example for Bio-pesticide in Unit III of Applied Microbiology (21BTP02), Introduce mRNA based vaccines in Unit V and shuffle the Units I to V of Genetic Engineering (21BTP09), Include Marker Assisted Breeding Techniques in Unit III of Plant Biotechnology (21BTP10), Include GUS assay in Practical V - Plant Biotechnology (21BTP12), Include RT PCR technique in Unit IV of Tools in Biotechnology (20BTP24B).
9. **The Alumni Dr. D. Jayasheela** suggested that based on major percentage of students choosing an elective, the course may be opted as an elective for the respective semester. Teaching methodology and hours allotment for Practicals has to be checked and updated.

Based on the discussions made above, the following resolutions were passed

10. The Syllabi of V & VI semesters of the B. Sc. Biotechnology Programme for the students admitted during the academic year 2019-2020 and onwards were approved.
- (i) It is resolved to modify the existing syllabus of Recombinant DNA Technology (19BTU18) in the units I to V from the academic year of 2019-2020 and onwards
 - (ii) It is resolved to modify the existing syllabus of Plant Biotechnology (19BTU19) units I to V from the academic year of 2019-2020 and onwards
 - (iii) It is resolved to modify the existing syllabus of IPR, Biosafety and Bioethics (19BTU20) units I and V from the academic year of 2019-2020 and onwards
 - (iv) It is decided to introduce the entire syllabus of Practical V- Recombinant DNA Technology (19BTU21) from the academic year of 2019-2020 and onwards
 - (v) It is decided to introduce the entire syllabus for Practical VI – Plant Biotechnology (19BTU22) from the academic year of 2019-2020 and onwards
 - (vi) It is resolved to modify the existing syllabus of Bioinformatics (19BTU23A) units I and V from the academic year of 2019-2020 and onwards
 - (vii) It is resolved to introduce the entire syllabus for Bio-nanotechnology (19BTU23B) from the academic year of 2019-2020 and onwards
 - (viii) It is resolved to modify the existing syllabus of Animal Biotechnology (19BTU25) units I and V from the academic year of 2019-2020 and onwards
 - (ix) It is resolved to modify the existing syllabus of Fermentation Technology (19BTU26) units I and III from the academic year of 2019-2020 and onwards
 - (x) It is resolved to modify the existing syllabus of Environmental Biotechnology (19BTU27) units I to V from the academic year of 2019-2020 and onwards
 - (xi) It is resolved to modify the existing syllabus of Diagnostic Tools (19BTU28A) units I to

HEAD OF THE DEPARTMENT
PG & Research Dept. of Biotechnology
Hindusthan College of Arts and Science
Coimbatore - 641 028

