



KONGU ARTS AND SCIENCE COLLEGE (Autonomous)



Affiliated to Bharathiar University, Coimbatore

Approved by UGC, AICTE, New Delhi & Re accredited by NAAC, DBT STAR College Scheme

(An ISO 9001: 2015 Certified Institution)

Nanjanapuram, Erode – 638 107

Minutes

Meeting of the Board of Studies held on 29.08.2022

For the Academic Year 2022 – 2023

(Phase II)



KONGU ARTS AND SCIENCE COLLEGE
(Autonomous)
NANJANAPURAM, ERODE – 638 107



DEPARTMENT OF BIOTECHNOLOGY

BOARD OF STUDIES MEETING

AGENDA

DATE: 29.08.2022

1. To consider and approve the curriculum and syllabi for the candidates admitted during the academic year 2022 – 2023 and onwards.
2. To consider and approve the pattern of question papers for the academic year 2022 – 2023 and onwards.
3. To consider and approve the implementation of NPTEL/SWAYAM or equivalent course offered by the Department for PG students admitted during the academic year 2022-2023 and onwards.
4. To consider and approve the Online Comprehensive Examination in Third Semester for PG students admitted during the academic year 2022–2023 and onwards.
5. To consider and approve the panel of examiners.
6. To consider and discuss any other subjects with the permission of the chair.



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The meeting of the Board of Studies in Biotechnology was conducted on 29.08.2022 at 02.30 p.m. through GoogleMeet.

The following members were present:

Chairman : **Dr.D.Saravanan**
Assistant Professor and Head
Department of Biotechnology
Kongu Arts and Science College (Autonomous)
Nanjanapuram, Erode – 638 107

Members :

S.No.	Name	Role in BoS
1.	Dr.P.RANI Professor Department of Biotechnology PSG College of Technology Peelamedu, Coimbatore – 641 004	Subject Expert
2.	Dr.VEENA GADICHERLA Associate Professor Department of Pharmacology Sri Indi Institute of Pharmacy Hyderabad, Telangana – 501 510	Subject Expert
3.	Dr.S.R.PRABAGARAN Associate Professor Department of Biotechnology Bharathiar University, Coimbatore – 641 046	University Nominee
4.	Ms. RAMYA GADICHERLA Genomics Lab Manager Genome Life Sciences Pvt. Ltd. 383, 1 st Cross Street, Nehru Nagar OMR, Kottivakkam, Chennai – 600 096	Industrial Expert
5.	Ms.M.MONISHA 7/11 B, Syed Ali Street Arisipalayam Salem – 636 009	Alumni Representative

6.	Dr.S.K.GANGAI ABIRAMI Assistant Professor Department of Biotechnology Kongu Arts and Science College (Autonomous) Nanjanapuram, Erode – 638 107	Faculty Member
7.	Ms.K.PREETHI Assistant Professor Department of Biotechnology Kongu Arts and Science College (Autonomous) Nanjanapuram, Erode – 638 107	Faculty Member
8.	Mr.K.VIVEKANANDHAN Assistant Professor Department of Biotechnology Kongu Arts and Science College (Autonomous) Nanjanapuram, Erode – 638 107	Faculty Member
9.	Dr.K.MANJUKARUNAMBIKA Assistant Professor Department of Biotechnology Kongu Arts and Science College (Autonomous) Nanjanapuram, Erode – 638 107	Faculty Member
10.	Ms.S.VIJAYA Assistant Professor Department of Biotechnology Kongu Arts and Science College (Autonomous) Nanjanapuram, Erode – 638 107	Faculty Member

Subjects related to CBCS, Outcome based Syllabus, Panel of Examiners, Credit Systems, Continuous Internal Assessment and End Semester Examinations, implementation of NPTEL/SWAYAM, Self Study Courses, etc. were discussed and the following are the resolutions:

1. It is resolved to approve the Curriculum and syllabi of I and II Semesters for the M.Sc., Biotechnology students admitted during the academic year 2022 – 2023 and onwards.
2. It is resolved to adopt the newly framed Scheme of Examination and distribution of credits as well as marks for various courses.
3. It is resolved to follow the Regulations of Bharathiar University for Attendance norms, Evaluation of answer scripts, Revaluation, Retotaling and Improvement.
4. It is resolved to follow the question paper pattern as given in Annexure – I & II
5. It is resolved to approve 5 marks for attendance in CIA for the students who have been admitted during the academic year 2022-2023 and onwards. (Annexure – III)
6. It is resolved to follow the Continuous Internal Assessment system with the break up marks specified in Annexure – III.
7. It is resolved to follow the scheme of passing minimum for the Continuous Internal Assessment and End Semester Examinations as given in Annexure – III
8. It is resolved to follow the Credit System in evaluating Cumulative Average Grade and Weighted Average of marks while issuing Consolidated Mark sheet.
9. It is resolved to have 50% internal and 50% external examiners for the evaluation of answer scripts of End Semester Examinations.
10. It is resolved to approve the implementation of SWAYAM /Equivalent Course offered in IV Semester for the M.Sc., Biotechnology students admitted during the academic year 2022-2023 and onwards.
14. It is resolved to approve the Online Comprehensive Examination in Third Semester for the M.Sc., Biotechnology students admitted during the academic year 2022–2023 and onwards.
15. It is resolved to approve the panel of Examiners as given in Annexure – V

Details of Modifications in the Courses offered under the Programme

The following modifications are done in the Syllabi of I and II Semesters for the M.Sc.Biotechnology students admitted during the academic year 2022 – 2023 and onwards.

The new topics has been introduced to the following core courses present in the Semester I of M.Sc. Biotechnology students admitted during the academic Year 2022-2023 and onwards

- 21PBLCT101 - Core Paper I:Biochemistry
- 21PBLCT104 - Core Paper IV:Genetics
- 21PBLCT105 - Core Paper V:Bioinstrumentation
- 21PBLCP106 - Core Practical I:Basic Biotechnology Laboratory





Modification in core courses in the syllabi of I and II semesters (M.Sc., Biotechnology) has been done and the same is provided in the table. **Annexure b.**

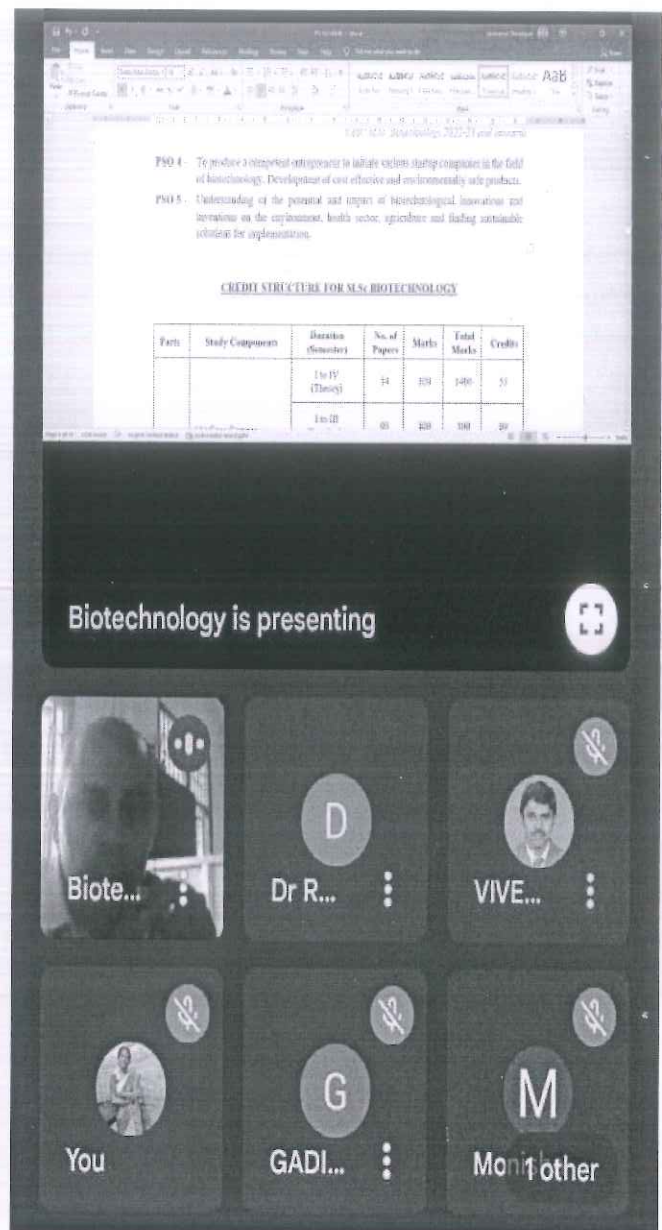
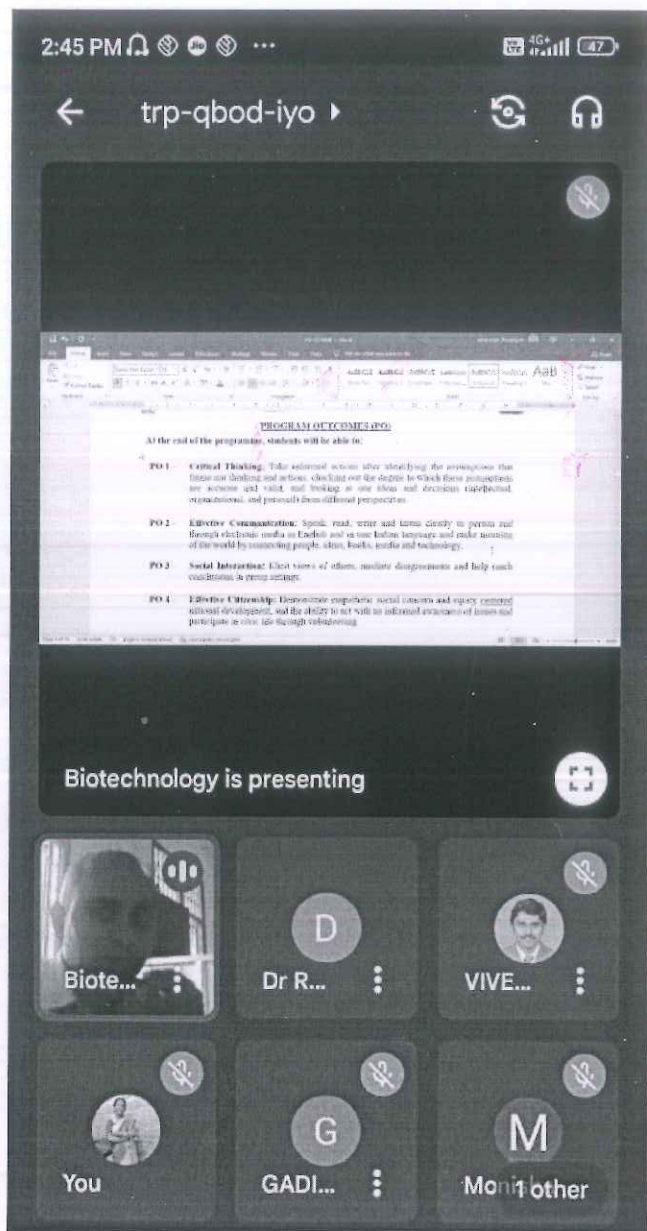
Details of Modifications with specific topics in the Syllabus with % Revision

S.No.	Course Name	Course Code	New Topics Added	Removed Topics	% of Revision
1.	Core Paper I: Biochemistry	21PBLCT101	SDA 1.: Variations in glycolysis pathway in different organisms for drug development	Nil	2%
2.	Core Paper IV: Genetics	21PBLCT104	Unit III: Principles of population genetics; Hardy-Weinberg law and its application for autosomal genes	Nil	2%
3	Core Paper V: Bioinstrumentation	21PBLCT105	Unit II: ELISA Unit III: Spectroscopy Basics: Basic principles, Laws of absorption, Absorption spectrum, Chromophore concept. Theory, Principles, Instrumentations and Applications of UV-Visible and IR spectrophotometry, Fluorescence, NMR, Atomic absorption, Mass, Raman	Nil	5%
4	Core Practical I: Basic Biotechnology Laboratory	21PBLCP106	Exp.1: Separation of PBMC and isolation of Monocytes. Exp.12: Purification of protein by gel filtration column chromatography	Separation of PBMC and Monocyte Culture	10%

- In overall, there had been a 3 % of revision in the syllabus of the M.Sc. Biotechnology programme.

All the above resolutions are approved.

1. Dr.D.SARAVANAN – Chairman 
2. Dr.P.RANI – Subject Expert
3. Dr.VEENA GADICHERLA – Subject Expert
4. Dr.S.R.PRABAGARAN – University Nominee
5. Ms. RAMYA GADICHERLA – Industrial Expert
6. Ms.M.MONISHA – Alumni Representative
7. Dr.S.K.GANGAI ABIRAMI – Faculty Member 
8. Ms.K.PREETHI – Faculty Member
9. Mr.K.VIVEKANANDHAN – Faculty Member 
10. Dr.K.MANJUKARUNAMBIKA – Faculty Member
11. Ms.S.VIJAYA – Faculty Member 



PC Scheme - Word

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Code	Course	Credits	Type	Hours	Theory	Practical	Total
2PBLCT305	Core XIII - Plant Biotechnology	4	T	3	50	50	100
2PBLCP306	Core XIV - Molecular Diagnostics and Clinical Testing	4	T	3	50	50	100
2PBLCT307 / 2PBLCT308 / 2PBLCT309	Core Practical - III Applied Biotechnology	5	P	3	50	50	100
2PBLCE310	Elective - III	3	T	3	50	50	100
2PBLCE310	Online Comprehensive Examination #	-	T	1 hour 40 Minutes	-	100	100
2PBLIT01	Institutional / Industrial Training*	-	-	-	-	-	-
Total		30				800	28

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Physical Techniques in Separation of Biomolecules

Basic principles of sedimentation, types of centrifuges and rotors. Preparative centrifuges, Differential and Density Gradient Centrifugation and ultra-centrifugation. Techniques: Theory and Application of Paper Chromatography, TLC, Gel Filtration, Ion Exchange Chromatography, Affinity Chromatography, GLC, HPLC, Nano.

Electrophoretic Techniques and Cell Analysis

Application of PAGE, SDS PAGE, Agarose Gel Electrophoresis 2DE, Iso-electric focusing, pulse field gel electrophoresis, Immuno diffusion, Immuno precipitation, ELISA. Cell analysis: Principles and Applications of Light, Phase Contrast Microscopy, Scanning Electron Microscopy, Transmission Electron Microscopy, Atomic force microscopy and Electron Cryo microscopy.

Structural Analysis of Biomolecules

IR, NMR, LASER Raman Spectroscopy, Mass Spectroscopy, Fluorescence Spectroscopy

