



## Dr. N.G.P. ARTS AND SCIENCE COLLEGE

(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)  
Approved by Government of Tamil Nadu & Accredited by NAAC with 'A++' Grade (3<sup>rd</sup> Cycle-3.64 CGPA)  
Dr. N.G.P.- Kalapatti Road, Coimbatore-641 048, Tamil Nadu, India.  
Website: www.drngpasc.ac.in | Email: info@drngpasc.ac.in. | Phone: +91-422-2369100

BoS

21<sup>st</sup>

### Department of Biotechnology Board of Studies Meeting Academic Year: 2026-27 (Odd Semester)

The minutes of the 21<sup>st</sup> meeting of Board of Studies held on 02.04.2026 at 10.00 am at the B1 Block- Room No. 1213. (Department of Biotechnology - Instrumentation Room)

#### Members Present:

S. No.	Name	Category
1	Dr. P. Chidambara Rajan	Chairman
2	Dr. Senthil Kumar, Associate Professor, Department of Biotechnology, Hindusthan College of Arts and Science, Coimbatore	VC Nominee
3	Dr. G. Suresha, Senior Scientist, ICAR-Sugarcane Breeding Institute, Coimbatore	Subject Expert
4	Dr. D. Natarajan, Professor, Department of Biotechnology, Periyar University, Salem	Subject Expert
5	Dr. Ranjith Kumar Rajamani	Industrial Expert
6	Prof. Mrs. K. Ramya, Assistant Professor, Department of Biotechnology, CMS College of Science and Commerce, Coimbatore	Alumni Member
7	Dr. R. Suganthi	Member
8	Dr. K. Arungandhi	Member
9	Dr. Arun P	Member
10	Dr. M.N. Kathiravan	Member
11	Dr. M. Shanmugavadivu	Member
12	Dr. M. Poongothai	Member
13	Dr. Radha Palaniswamy	Member
14	Dr. S. Saranya	Member
15	Mrs. C.R. Aarthi	Member
16	Dr. N. Kuppuchami	Co-opted Member
17	Dr. A. Hazel Verbina	Co-opted Member
18	Dr. Ravi Kumar	Co-opted Member
19	Dr. Sowrirajan	Co-opted Member
20	Ms. T.K. Dharshini	Student Representative- PG
21	Ms. K. Dharanipriya	Student Representative- UG

The HoD and Chairman of the Department of Biotechnology welcomed and introduced all the members and appreciated them for their continuous support and contribution for the development of academic standard and enrichment of the syllabus.

After brief discussion the items of the agenda were taken one by one for discussion and the following resolutions were passed.

**Item 21.1:** To review and approve the minutes of the previous meeting held on 11-11-2025.

The chairman of the Board presented the minutes of the previous meeting held on 11-11-2025 and requested the members to approve. After brief discussion the following resolution was passed.

**Resolution:**

**Resolved to approve the minutes of the previous meeting held on 11-11-2025**

**Item 21.2:** To consider and approve the syllabi for I semester for UG and PG students admitted during the academic year 2026-2027.

The chairman presented the detailed scheme and Regulation for the students admitted from the academic year 2026-27 for the I semester. The members deliberated in detail about the modification required.

**Changes made:**

**I B.Sc.:**

Course Code	Course	Reason
26BTU1CP	Core Practical: Cell Biology and Microbiology	Mrs. Ramya suggested to remove <b>Buffer preparation experiments</b> in this current semester and include it in 2 <sup>nd</sup> semester Biochemistry and Microbiology practical.

**I M.Sc.:**

Course Code	Course	Reason
26BTP1CB	Biochemistry	Dr. Suresha and Dr. Ranjith Kumar suggested to include <b>H-DNA type and RNA types in Unit -IV</b> . For better understanding of Nucleic acids structure and gene expression.
26BTP1CC	Microbiology	Dr. Senthilkumar suggested to incorporate <b>NGS and WGS</b> in Unit - II. To understand the DNA sequencing methodologies in microbial diversity identification.
26BTP1CP	Core Practical: Molecular Biology, Genetics and Biochemistry	Dr. Suresha and Mrs. Ramya suggested to include <b>DNA amplification by Polymerase Chain Reaction</b> instead of RFLP which can be included in Genetic Engineering practical 2 <sup>nd</sup> semester.
26BTP1DA	DSE: Applied Biotechnology	Dr. Senthilkumar and Dr. Ranjith Kumar suggested to include <b>Introduction to Recombinant DNA technology in Unit I</b> and rearrange the Units accordingly for better understanding of the Biotechnology applications.

After discussion it is unanimously decided to adopt the following changes.

**Resolution:**

**Resolved to approve the above modification and adopt the revised syllabus for students admitted for the academic year 2026-27.**

**Item 21.3:** *To consider and approve the syllabi for III semester for the students admitted in UG and PG during the academic year 2025-2026.*

The chairman presented the detailed scheme for the students admitted in UG and PG from the academic year 2025-2026 and syllabi for the III semester. The members deliberated in detail about the modification required.

After brief discussion the following resolution was passed.

**Resolution:**

**Resolved to adopt and resolved to retain the existing syllabus for the courses for UG and PG students admitted for the academic year 2025-26.**

**Item 21.4:** *To consider and approve the syllabi for V semester for the students admitted in UG during the academic year 2024-2025.*

The chairman presented the detailed scheme for the students admitted in UG from the academic year 2024-2025 and syllabus for the V semester. The members deliberated in detail about the modification required.

After brief discussion the following resolution was passed.

**Resolution:**

**Resolved to adopt and resolved to retain the existing syllabus for the courses for UG students admitted for the academic year 2024-25.**

**Item 21.5:** *To consider and approve the syllabi for PG Diploma, Certificate, SADC course to be offered during the academic year 2026-27.*

The chairman presented the detailed scheme for PG Diploma, Certificate, SADC courses to be offered to the students admitted from the academic year 2026-27 onwards. The members deliberated in detail about the modification required. After discussion it is unanimously decided to adopt the following changes.

**Changes made:**

**I Semester:**

Course Code	Course	Reason
26PDBI1P	Practical: Computer Programming	Dr. Ranjith Kumar Suggested to replace the following as these practicals are fundamental for Bioinformatics: “1. Programme to check odd/even numbers. 2. Programme to check greatest of the three numbers. 3. Programme to check for leap years. 4. Program to Matrix Multiplication” with Perl Programme like 1. Programme to calculate the reverse complement Strand of DNA 2. Programme to get seq Data by Subroutine 3. Programme a Subroutine to translate DNA to Peptide 4. Programme to search for Motifs 5. Programme to generate Random Nucleotides

**SADC course: “Molecular Docking and Simulation”** for 2025-26 and 2026-27 batch onwards.

**Skills Course: NPTEL Courses** for 2026-27 batch onwards.

- Educational Technology and ICT,
- Basics Crop Breeding and Plant Biotechnology,
- Cell Biology- Cellular organization Division and Processes
- Modern Food Packing Technologies -Regulatory Aspects and Global Trends

**Resolution:**

**Resolved to approve the above modification and adopt the revised syllabus for students admitted for the academic year 2025-26 and 2026-27 onwards.**

**Item 21.6:** *To consider and approve the panel of examiners for conducting of End Semester Practical’s examination, Central Valuation and Question Paper Setting.*

The chairman presented the detailed the panel of examiners for conducting of End Semester Practical’s examination, Central Valuation and Question Paper Setting. The members deliberated in detail about the modification required. After discussion it is unanimously decided to adopt the following changes.

**Resolution:**

**Resolved to retain the existing panel of 2025-26 batch without any modification for the students admitted from the academic year 2026-27.**

**Resolved to retain the existing panel of 2025-26 batch without any modification for the students admitted from the academic year 2026-27.**

**Item 21.7:** *To consider and approve the syllabi of Self - study paper offered in III semester for the students admitted during 2026-27.*

The chairman presented the detailed Self - study syllabi for the students admitted in UG and PG from the academic year 2026-2027. The members deliberated in detail about the modification required.

After discussion the following resolution was passed.

**Resolution:**

**Resolved to change Mushroom Farming instead of Environmental Management for UG and Herbal Technology instead of Development Biology for PG students admitted from the academic year 2026-27.**

**Item 21.8:** *To consider and approve the syllabi of NPTEL course and get exemption for the courses offered in III semester for the PG students admitted during 2026-27 and V semester for the UG students admitted during 2025-26.*

The chairman presented the detailed syllabus of Environmental Biotechnology for V semester of UG students admitted during 2025-26 and Genomics and Proteomics for III semester of PG students admitted during 2026-27. The members deliberated in detail about the modification required.

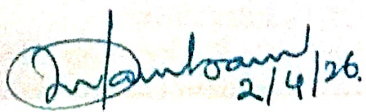
After discussion the following resolution was passed.

**Resolution:**

**Resolved to approve the syllabi of NPTEL course and get exemption for the courses offered in III semester for the PG students admitted during 2026-27 and V semester for the UG students admitted during 2025-26.**

Finally, the Chairman thanked all the members for their cooperation and contribution in enriching the syllabus with active participation in the meeting and sought the same spirit in the future also. The meeting was closed with formal vote of thanks proposed by Dr. M. Poongothai, Professor, Department of Biotechnology.

**Date: 02.04.2026**

  
**(Dr. P. Chidambara Rajan)**  
BoS Chairman/HoD  
Department of Biotechnology  
Dr. N. G. P Arts and Science College  
Coimbatore – 641 048

## ATTENDANCE OF THE EIGHTEENTH BOARD OF STUDIES MEETING

**Faculty: Biosciences**

**Board: Biotechnology**

Date : 02/04/2026

Time : 10.00 a.m.


Venue : Department of Biotechnology (Room. No: 1213)

**The following members were present for the Board of Studies meeting**

S. No	Name	Designation	Signature
1.	Dr. P. Chidambara Rajan Professor and Head	Chairman	PRESENT
2.	Dr. P. Senthil Kumar, Associate Professor, Department of Biotechnology, Hindusthan College of Arts and Science, Coimbatore	University Nominee	PRESENT
3.	Dr. D. Natarajan, Associate Professor, Department of Biotechnology, Periyar University, Salem.	Subject Expert	ABSENT
4.	Dr. G. S. Suresha, Senior Scientist, ICAR- Sugarcane Breeding Institute, Coimbatore	Subject Expert	PRESENT
5.	Dr. Ranjith Kumar Rajamani, Chief Scientific Officer, Fine Ants Innov Tekhouse, Thudiyalur, Coimbatore	Industrial expert	PRESENT
6.	Prof. Mrs. K. Ramya, Assistant Professor, Department of Biotechnology, CMS College of Science and Commerce, Coimbatore	Alumni	PRESENT
7.	Ms. T.K. Dharshini I M.Sc. Biotechnology	Student Representatives	PRESENT
	Ms. K. Dharanipriya II B.Sc. Biotechnology		PRESENT
8.	Part I (Language I) Dr. N. Kuppuchamy Associate Professor and Head Department of Tamil	Co-opted member	PRESENT
9.	Part II (Language II) Dr. A. Hazel Verbina Professor and Head Department of English	Co-opted member	PRESENT
10.	Allied - IDC- Chemistry Dr. R. Ravikumar Associate Professor and Head (i/c) Department of Chemistry	Co-opted member	PRESENT
11.	Allied -IDC- Mathematics	Co-opted member	PRESENT

	Dr. R. Sowrirajan Assistant Professor and Head Department of Mathematics		
12.	Dr. R. Suganthi Professor	Internal Member	PRESENT
13.	Dr. K. Arungandhi Professor	Internal Member	PRESENT
14.	Dr. Arun. P Professor	Internal Member	PRESENT
15.	Dr. M.N. Kathiravan Professor	Internal Member	PRESENT
16.	Dr. M. Shanmugavadivu Associate Professor	Internal Member	PRESENT
17.	Dr. M. Poongothai Associate Professor	Internal Member	PRESENT
18.	Dr. Radha Palaniswamy Assistant Professor	Internal Member	PRESENT
19.	Dr. S. Saranya Assistant Professor	Internal Member	PRESENT
20.	Mrs. C.R. Aarthi Assistant Professor	Internal Member	PRESENT

Date: 02.04.2026

  
 (Dr. P. Chidambara Rajan)  
 BoS Chairman/HoD  
 Department of Biotechnology  
 Dr. N. G. P. Arts and Science College  
 Coimbatore - 641 048

**Department of Biotechnology  
M.Sc. Biotechnology  
Syllabus Revision**

**Faculty: Biosciences**

**Board: Biotechnology**

**Semester: I**

**Core: Biochemistry**

**Course Code/Name: 26BTP1CB**

Unit	Existing	Revised
I	Classification and reactions: occurrence, properties and biological reactions. Structural features of carbohydrates and Conjugated carbohydrates (Glycoproteins and Glycolipids), Glycolysis and TCA cycle; Glycogen breakdown and synthesis; Gluconeogenesis; interconversion of hexoses and pentoses. Carbohydrate metabolic disorders. Glycogen storage diseases. Lectins – characteristics and functions in biological system.	--
II	Classification, Structure, functions and reactions of Lipids, Biosynthesis of fatty acids, Triglycerides, phospholipids and Sterols, Catabolism of Fatty acids - Oxidation ( $\alpha$ , $\beta$ and $\omega$ ), Catabolism of triglycerides and phospholipids, Essential fatty acids and their physiological functions. Disorders associated with lipid metabolism and its therapeutic intervention - ketone bodies and ketosis; fatty liver, atherosclerosis.	--
III	Classification and Biosynthesis. Peptides, Classification of Protein, Primary structure of proteins, structural comparison at secondary and tertiary levels (Ramachandran Plot), quaternary and domain structure and architecture. Motifs, functional relationship between domains and function of protein. Regulation of Protein metabolism. Protein metabolism in prolonged fasting. Disease related to protein folding – Alzheimer's and mad cow disease.	--
IV	IUBMB classification of enzymes, active site, Lock and key Model and induced fit hypothesis. Factors affecting enzyme activity, Mechanism of enzyme catalysis: Lysozyme, Enzyme kinetics- Michaelis – Menten (MM) equations, Transformations of MM equation and their significance, Enzyme inhibition: Reversible – Competitive, Noncompetitive, Uncompetitive, Irreversible inhibition, Kinetics of Enzyme inhibition. Isoenzymes, allosteric enzymes, ribozymes, abzymes and artificial enzymes. Diseases Caused By Deficiency of Digestive Enzymes- Obesity, Galactosemia, Maple Syrup Urine Disease.	--
V	Nucleic acids: Structural characteristics of A, B and Z - DNA. 3D structure of t-RNA, ribozymes and riboswitches. Biosynthesis of Nucleotides –De nova and Salvage pathway, Regulations of Purines and Pyrimidine, Metabolism of Purine and Pyrimidine. Disorders of nucleic acids metabolism- Gout, Lesch-Nyhan syndrome, oroticaciduria, and xanthinuria.	H-DNA type and RNA types

**PERCENTAGE OF SYLLABUS REVISION: 1.8%**  
**COURSE FOCUS ON:**

<input checked="" type="checkbox"/>	Skill Development	<input type="checkbox"/>	Entrepreneurial Development
<input checked="" type="checkbox"/>	Employability	<input checked="" type="checkbox"/>	Innovations
<input type="checkbox"/>	Intellectual Property Rights	<input type="checkbox"/>	Gender Sensitization
<input type="checkbox"/>	Social Awareness/ Environment	<input type="checkbox"/>	Constitutional Rights/ Human Values/ Ethics

**Department of Biotechnology  
M.Sc. Biotechnology  
Syllabus Revision**

**Faculty: Biosciences**

**Semester: I**

**Course Code/Name: 26BTP1CC**

**Board: Biotechnology**

**Core: Microbiology**

Unit	Existing	Revised
I	Concepts of species and hierarchical taxa – Bacterial nomenclature– Bergey’s system of Classification, Classification of Fungi and Viruses, Polyphasic taxonomy, Preservation and maintenance of microbes, Microbial Culture Collection centers – India and International organizations. <del>Modern methods to study microbial diversity: NGS</del>	--
II	Microbial Identification through physiological and biochemical methods (BIOLOG, Vitex). Techniques used in diversity analysis – Fatty Acid Methyl Ester (FAME), 16S rRNA & 18s rRNA gene sequencing. Mol % G+C analysis, DNA-DNA hybridization, Molecular methods to study complex microbial communities: DGGE, SSCP, T-RFLP and FISH.	Modern methods to study microbial diversity: NGS and WGS
III	Spoilage of food – Principles and types; Food preservation: physical and chemical- Food sanitation – Food poisoning – Food borne pathogens – Quality control and Food laws. Role of microorganisms in soil fertility – Role of nif gene in Biological nitrogen fixation, Plant microbe interaction: Biopesticides (B. thuringiensis and NPV) - Biofertilizers - PGPR – mycorrhiza.	--
IV	Bacterial Diseases: Host-parasite relationship, epidemiology, pathogenesis, prevention and treatment – Mycobacterium, Salmonella and Yersinia. Viral Diseases: Epidemiology, pathogenesis, prevention and Treatment - H1N1, HIV, SARS- COV-2. Fungal Diseases: Infections caused by yeast: Candida. Filamentous Fungi: Aspergillus sp. Protozoan Diseases: Malaria, Leishmaniasis.	--
V	Concept of sterilization and disinfection. Physical and chemical methods of microbial control. Chemotherapeutics, susceptibility test (broth procedures and diffusion methods), mode of action of antibiotics, narrow and broad spectrum (Penicillin, ampicillin, sulfonamide, vancomycin, tetracycline, chloramphenicol), antifungals (clotrimazole, fluconazole), antiretroviral (tenofovir, AZT).	--

**PERCENTAGE OF SYLLABUS REVISION: 4.03%**

**COURSE FOCUS ON:**

<input checked="" type="checkbox"/>	Skill Development	<input checked="" type="checkbox"/>	Entrepreneurial Development
<input checked="" type="checkbox"/>	Employability	<input checked="" type="checkbox"/>	Innovations
<input type="checkbox"/>	Intellectual Property Rights	<input type="checkbox"/>	Gender Sensitization
<input type="checkbox"/>	Social Awareness/ Environment	<input type="checkbox"/>	Constitutional Rights/ Human Values/ Ethics

**Department of Biotechnology**  
**M.Sc. Biotechnology**  
**Syllabus Revision**

**Faculty: Biosciences**

**Board: Biotechnology**

**Semester: I**

**Course Code/Name: 26BTP1CP**

**Core Practical: Molecular Biology, Genetics and**

**Biochemistry**

Existing	Revised
1. Isolation of genomic DNA from human blood sample. 2. Bacterial conjugation. 3. Bacterial Transformation. 4. Molecular analysis using RAPD. <del>5. RFLP analysis.</del> 6. Estimation of total Protein and albumin from serum. 7. Estimation of glucose from serum. 8. Estimation of Vitamin C from Citrus fruit 9. Estimation of total amino acids from serum. 10. Estimation of DNA & RNA. 11. Determination of blood cholesterol. 12. Separation of amino acids from serum by Paper Chromatography.	DNA Amplification by PCR

**PERCENTAGE OF SYLLABUS REVISION: 6.6%**

**COURSE FOCUS ON:**

<input checked="" type="checkbox"/>	Skill Development	<input checked="" type="checkbox"/>	Entrepreneurial Development
<input checked="" type="checkbox"/>	Employability	<input checked="" type="checkbox"/>	Innovations
<input type="checkbox"/>	Intellectual Property Rights	<input type="checkbox"/>	Gender Sensitization
<input type="checkbox"/>	Social Awareness/ Environment	<input checked="" type="checkbox"/>	Constitutional Rights/ Human Values/ Ethics

**Department of Biotechnology**  
**M.Sc. Biotechnology**  
**Syllabus Revision**

**Faculty: Biosciences**

**Board: Biotechnology**

**Semester: I**

**Course Code/Name: 26BTP1DA**

**DSE: Applied Biotechnology**

Unit	Existing	Revised
I	Agricultural, Plant Biotechnology and Animal Biotechnology: Applications of transgenic crop technology: Herbicide resistance (Glyphosate Resistance plants), Pest resistance (Bt Cotton) and Virus Resistance. Enhancement of micro-nutrients (Vitamin A). Delayed Fruit Ripening. Molecular pharming in plants. Transgenic animals (Transgenic mice and Transgenic cattle). Production and recovery of products from animal tissue cultures (Blood clotting factors, Growth hormones, insulin).	Introduction to Recombinant DNA Technology: Strategies of cloning. Cutting and Joining of DNA – Linker and Adapters, enzyme involved in cloning. Selectable markers and reporter genes. Cloning vectors: Bacterial vectors - pBR322 and pUC vectors. Animal Viral vectors - SV-40, retroviral vectors. Plant vectors -Ti and Ri Plasmids. Yeast Vectors - YAC. Shuttle vectors and expression vectors. Introduction of cloned genes into cell: transformation, particle bombardment, liposome mediation and Electroporation, microinjection.
II	<del>Environmental Biotechnology: Bioremediation (Bioaugmentation and Biostimulation). Biodegradation of Xenobiotic compounds. Bioleaching. Microbially Enhanced Oil Recovery. Biotechnological methods for hazardous waste management. Bioindicators Biomarkers Biosensors Management of effluent toxicity, heavy metal pollution, thermal and radioactive pollution</del>	Enzyme Biotechnology: Enzymes used for diagnostic purpose- (acid phosphatase, alanine aminotransferase and alkaline phosphatase). Cardiac Biomarkers. Enzymes used for screening liver and kidney diseases. Enzymes used in food industry, leather industry, wool industry, dairy industry and textile industry.
III	Health Care Biotechnology: Disease prevention – vaccines: conventional vaccines, purified antigen vaccines, recombinant vaccines, DNA vaccines, synthetic vaccines. Disease Diagnosis – Probes, monoclonal antibodies and detection of genetic diseases. Disease treatment – interferons, monoclonal antibodies. Gene Gene therapy, enzyme therapy and replacement. Forensic Medicine.	Fermentation Biotechnology: Production, harvest, recovery and uses – enzymes, antibiotics (Tetracycline), vitamins (B2), aminoacids (glutamic acid), organic solvents (ethanol): organic acids (lactic acid). Single cell protein (algae), beverages (Wine). Formulation of Biofertilizer (Rhizobium), Biopesticides.
IV	Enzyme Biotechnology: Enzymes used for diagnostic purpose- (acid phosphatase, alanine aminotransferase and alkaline phosphatase). Cardiac Biomarkers. Enzymes used for screening liver and kidney diseases. Enzymes used in food industry, leather industry, wool industry, dairy industry and textile industry.	Health Care Biotechnology: Disease prevention – vaccines: conventional vaccines, purified antigen vaccines, recombinant vaccines, DNA vaccines, synthetic vaccines. Disease Diagnosis – Probes, monoclonal antibodies and detection of genetic diseases. Disease treatment – interferons, monoclonal antibodies. Gene Gene therapy, enzyme therapy and replacement. Forensic Medicine.
V	Fermentation Biotechnology: Production, harvest, recovery and uses – enzymes, antibiotics (Tetracycline), vitamins (B2), aminoacids (glutamic acid), organic solvents (ethanol); organic acids (lactic acid). Single cell protein (algae), beverages (Wine). Formulation of Biofertilizer (Rhizobium), Biopesticides.	Agricultural, Plant Biotechnology and Animal Biotechnology: Applications of transgenic crop technology: Herbicide resistance (Glyphosate Resistance plants), Pest resistance (Bt Cotton) and Virus Resistance. Enhancement of micro-nutrients (Vitamin A). Delayed Fruit Ripening. Molecular pharming in plants. Transgenic animals (Transgenic mice and Transgenic cattle). Production and recovery of products from animal tissue cultures (Blood clotting factors, Growth hormones, insulin).

**PERCENTAGE OF SYLLABUS REVISION: 33.5%**

**COURSE FOCUS ON :**

<input checked="" type="checkbox"/>	Skill Development	<input checked="" type="checkbox"/>	Entrepreneurial Development
<input checked="" type="checkbox"/>	Employability	<input checked="" type="checkbox"/>	Innovations
<input type="checkbox"/>	Intellectual Property Rights	<input type="checkbox"/>	Gender Sensitization
<input checked="" type="checkbox"/>	Social Awareness/ Environment	<input type="checkbox"/>	Constitutional Rights/ Human Values/ Ethics

**Department of Biotechnology  
B.Sc. Biotechnology  
Syllabus Revision**

**Faculty: Biosciences**

**Board: Biotechnology**

**Semester: I**

**Course Code/Name: 26BTU1CP Core Practical: Cell Biology and Microbiology**

Existing	Revised
<ol style="list-style-type: none"> <li>1. <del>Calculations of Molarity, Normality and Percentage Solution and Preparation of buffer in different pH Phosphate, Acetate, Tris buffer.</del></li> <li>2. Microscopic observation of Monocot and Dicot Leaf, Root and Stem section.</li> <li>3. Staining of plant cells - Onion epidermal cells.</li> <li>4. Staining of starch granules.</li> <li>5. Mitotic preparation from onion root tip.</li> <li>6. Enumeration of microorganism from soil by serial dilution method and Pure Culture Techniques.</li> <li>7. Staining of Bacteria- Simple, Negative and Gram staining.</li> <li>8. Staining of Fungi.</li> <li>9. Observation of fungi under stereomicroscope*.</li> <li>10. Bacterial growth curve by turbidimetry method.</li> <li>11. Antibiotic sensitivity test - Kirby Bauer Method.</li> <li>12. Methylene Blue Reduction test.</li> </ol>	--

**PERCENTAGE OF SYLLABUS REVISION: 12.7%**

**COURSE FOCUS ON:**

<input checked="" type="checkbox"/>	Skill Development	<input type="checkbox"/>	Entrepreneurial Development
<input checked="" type="checkbox"/>	Employability	<input type="checkbox"/>	Innovations
<input type="checkbox"/>	Intellectual Property Rights	<input type="checkbox"/>	Gender Sensitization
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BoS

21<sup>st</sup>

### ATTENDANCE OF THE TWENTY FIRST BOARD OF STUDIES MEETING

Faculty: Biosciences

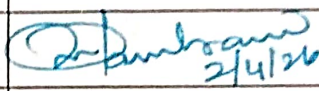
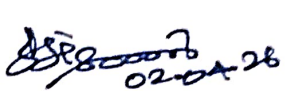
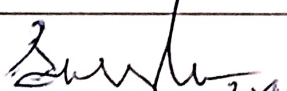
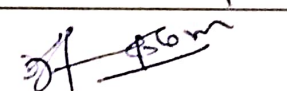
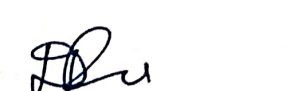
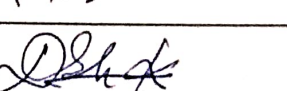
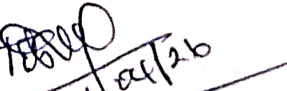
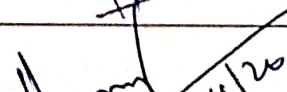
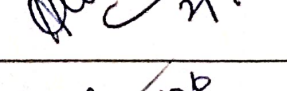
Board: Biotechnology


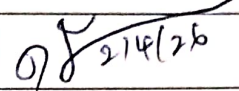
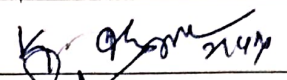
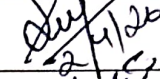
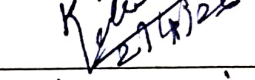

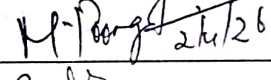
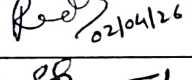
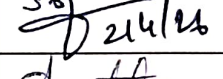
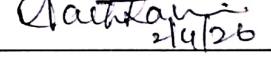
Date : 02/04/2026

Time : 10.00 a.m.


Venue : Department of Biotechnology (Room. No: 1213)

The following members were present for the Board of Studies meeting

S. No	Name	Designation	Signature
1.	Dr. P. Chidambara Rajan Professor and Head	Chairman	 2/4/26
2.	Dr. P. Senthil Kumar, Associate Professor, Department of Biotechnology, Hindusthan College of Arts and Science, Coimbatore	University Nominee	 02-04-26
3.	Dr. D. Natarajan, Associate Professor, Department of Biotechnology, Periyar University, Salem.	Subject Expert	ABSENT
4.	Dr. G. S. Suresha, Senior Scientist, ICAR- Sugarcane Breeding Institute, Coimbatore	Subject Expert	 2.4.26
5.	Dr. Ranjith Kumar Rajamani, Chief Scientific Officer, Fine Ants Innov Tekhouse, Thudiyalur, Coimbatore	Industrial expert	
6.	Prof. Mrs.K. Ramya, Assistant Professor, Department of Biotechnology, CMS College of Science and Commerce, Coimbatore	Alumni	
7.	Ms. T.K. Dharsini (I M.Sc. Biotechnology)	Student Representatives	T.K. Dharsini
	Ms. K. Dharanipriya (II B.Sc. Biotechnology)		
8.	Part I (Language I) Dr. N. Kuppuchamy Associate Professor and Head Department of Tamil	Co-opted member	 02/04/26
9.	Part II (Language II) Dr. A. Hazel Verbina Professor and Head Department of English	Co-opted member	 2/4/26
10.	Allied - IDC- Chemistry Dr. R. Ravikumar Associate Professor and Head Department of Chemistry	Co-opted member	 02/04/26

11	Allied -IDC- Mathematics Dr. R. Sowrirajan Assistant Professor and Head Department of Mathematics	Co-opted member	
12.	Dr. R. Suganthi Professor	Internal Member	
13.	Dr. K. Arungandhi Professor	Internal Member	
14.	Dr. Arun. P Professor	Internal Member	
15.	Dr. M.N. Kathiravan Professor	Internal Member	
16.	Dr. M. Shanmugavadivu Professor	Internal Member	
17.	Dr. M. Poongothai Professor	Internal Member	
18.	Dr. Radha Palaniswamy Associate Professor	Internal Member	
19.	Dr. S. Saranya Assistant Professor	Internal Member	
20.	Mrs. C.R. Aarthi Assistant Professor	Internal Member	

Date: 02.04.2026

  
 (Dr. P. Chidambara Rajan)  
 BoS Chairman/HoD  
 Department of Biotechnology  
 Dr. N. G. P. Arts and Science College  
 Coimbatore - 641 048