

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

(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)  
Approved by Government of Tamil Nadu and Accredited by NAAC A++ Grade (3<sup>rd</sup> Cycle- 3.64 CGPA)  
Dr. N.G.P.-Kalapatti Road, Coimbatore-641048, Tamil Nadu, India  
Web: [www.drngpasc.ac.in](http://www.drngpasc.ac.in) | Email: [info@drngpasc.ac.in](mailto:info@drngpasc.ac.in) | Phone: +91-422-2369100

BoS

16<sup>th</sup>

## Board of Studies Meeting

### Department of Biotechnology

The minutes of the 16<sup>th</sup> meeting of Board of Studies held on 17.10.2023 at 10.00 am at the B1- 1213- Instrumentation Room.

#### Members Present:

S.No.	Name	Category
1	Dr. P. Chidambararajan	Chairman
2	Dr. P.T. Prathima	Subject Expert
3	Dr. M. Prasad	Industrial Expert
4	Dr. R. Suganthi	Member
5	Dr. K. Kalimuthu	Member
6	Dr. K. Arungandhi	Member
7	Dr. Arun P	Member
8	Dr. M.N. Kathiravan	Member
9	Dr. M. Shanmugavadivu	Member
10	Dr. S. Saranaya	Member
11	Mrs. C.R. Aarathi	Member
12	Dr. N. Kuppuchami	Co-opted Member
13	Dr. R. Vithya Prabha	Co-opted Member
14	Dr. K. Girija	Co-opted Member
15	Dr. B. Rosiline Jeetha	Co-opted Member
16	Mr. Deepesh Vasnani	Student Representative- UG
17	Ms. Dharani M	Student Representative- PG

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

Further, Chairman informed the inability of the following members to attend the meeting and requested to grant leave of absence.

1. Dr. V. Vijaya Padma- University Nominee
2. Dr. S. Nakkeeran- Subject Expert
3. Dr. M. Poongothai- Member
4. Dr. Radha Palaniswamy- Member



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

**Item 16.1**

To review and approve the minutes of the previous meeting held on **10.06.2023**.

The chairman of the Board presented the minutes of the previous meeting held on **10.06.2023** 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 10.06.2023.**

**Item 16.1(a):** To consider and approve the syllabi for II semester for the students admitted during the academic year 2023-24.

The chairman presented the detailed scheme and syllabus for the II semester for the students admitted from the academic year 2023-24 onwards. The details of changes made also presented as follows.

**Changes Made: No changes required**

<b>B.Sc. Biotechnology</b>		
<b>Course</b>	<b>Code</b>	<b>Reason</b>
<b>M.Sc. Biotechnology</b>		
<b>Course</b>	<b>Code</b>	<b>Reason</b>

**New Courses Introduced:**

<b>Course</b>	<b>Code</b>	<b>Reason</b>
-	-	-

**Courses Removed: NIL**

<b>Course</b>	<b>Code</b>	<b>Reason</b>
-	-	-

**IDC Offered**

<b>Course</b>	<b>Code</b>	<b>Department</b>
-	-	-

After discussion the following resolution was passed with the above changes and modifications.



**Resolution:**

Resolved to approve the syllabus for the II semester for the students admitted from the academic year 2023-24 onwards.

**Item 16.1(b) :** To consider and approve the changes, if any, in the syllabi for IV semester for the students admitted during the academic year 2022-23.

The Chairman presented the detailed syllabus for the IV semester for the students admitted from the academic year 2022-23 onwards. The details of changes made also presented as follows:

**Changes Made:**

<b>B.Sc. Biotechnology</b>		
<b>Course</b>	<b>Code</b>	<b>Reason</b>
Core: Immunology	223BT1A4CA	Unit 1: To include the topics like <b>“Infections and Immunity, Hematopoiesis, Cells of the immune system”</b> for better understanding about the immune system Unit 3: <b>“Treatment to Auto immune disorder”</b> to be include for gaining knowledge about immune disorders. Unit 5: To incorporate topics like <b>“Subunit Vaccines, RNA Vaccines and Protein Vaccines.”</b> To familiar with recent vaccine development.
Core Practical IV: Immunology and Bioinformatics.	223BT1A4CP	To expose and prepare students for a lucrative employment opportunity with demands on drug designing with <b>“Molecular Docking”</b>
<b>M.Sc. Biotechnology</b>		
<b>Course</b>	<b>Code</b>	<b>Reason</b>
Core : Pharmaceutical Biotechnology	223BT2A4CA	Unit 1: <b>“Limitations in the enzyme production”</b> for better understanding in enzyme production. Unit 3: <b>“Bioavailability for all the pharmaceutical compounds and mention specifically the names of Phyto constituents”</b> under herbal medicine. <b>“Biosimilar drug and AI in drug development”</b> . Unit - IV: To include the <b>“mRNA vaccines”</b> .



Core Practical VI- Pharmaceutical Biotechnology	223BT2A4CP	To include following experiment for students to get exposure in pharmacokinetics <b>“1. Extraction of Omega -3 Fatty acids from algae 2. Determination of Enzyme activity.”</b>
Stem Cell Technology	223BT2A4DA	Unit 2: <b>“Isolation and harvesting of Plant stem cells and their limitations”</b> . Unit 4: <b>“Haematopoietic Stem Cells harvesting and limitations, Applications of haematopoietic Stem cells.”</b> For better understanding of the type of stem cells.

**New Courses Introduced:**

<b>B. Sc. Biotechnology</b>		
<b>Course</b>	<b>Code</b>	<b>Reason</b>
Core: Bioinformatics	223BT1A4CB	Unit 1: <b>“Introduction to Bioinformatics and AI, and to specify the Commercial software with examples”</b> . To gain basics of bioinformatics. Unit 2: <b>“Phylogenetic tree analysis”</b> , relocate to Unit 4 where the detailed topics are. <b>“PIR (Protein Information Resource) and TrEMBL (Translated EMBL)”</b> . To hone the knowledge created in the field protein structure prediction. Unit 3: <b>“Protein Structure prediction”</b> . Include for knowledge on structural information of protein. Unit 4: <b>“MEGA tool and retrieval of sequence information from data base”</b> . To better understanding of gene evolutionary analysis. Unit 5: <b>“Docking techniques”</b> to essence the young minds and to stimulate the creativity on drug designing.
Skill Enhancement Course- II- Recombinant DNA Technology	223BT1A4SP	To expose and prepare students for employment opportunity in Molecular biology with hands on training on <b>“Type of ELISA and Isolation of RNA”</b> .
<b>M. Sc. Biotechnology</b>		
<b>Course</b>	<b>Code</b>	<b>Reason</b>



**Courses Removed: NIL**

Course	Code	Reason
-	-	-

**IDC Offered**

Course	Code	Department
Bioinformatics	223BT1A4IC	Microbiology

After discussion the following resolution was passed with the above changes and modifications.

**Resolution:**

**Resolved to approve the syllabus for the IV semester for the students admitted from the academic year 2022-23 onwards.**

**Item 16.2:** To approve the panel of examiners for question paper setting and evaluation of answer scripts for the even semester of the academic year 2023-24.

The Chairman presented the panel of examiners for question paper setting and evaluation of answer scripts for the even semester of the academic year 2023-24.

**Resolution:**

**Resolved to approve the panel of examiners for question paper setting and evaluation of answer scripts for the even semester of the academic year 2023-2024.**

**Item 16.3:** To consider and approve the syllabi for VACC for the students admitted during the academic year 2023-24.

The chairman presented the detailed syllabus for VACC- Protein Purification and Characterization for the students admitted from the academic year 2023-24 onwards.

**Resolution:**

**Resolved to approve the syllabus for the students admitted from the academic year 2023-24 onwards.**

**Item 16.4:** To consider and approve any other item brought forward by the Chairman and the members of the board.

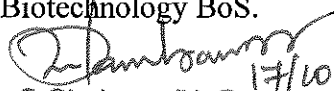
No other item was brought forward.

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. P. Chidambararajan, Head and Chairman- Biotechnology BoS.



Dr. NGPASC  
COIMBATORE | INDIA

Date: 17.10.2023

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

**B.Sc. Biotechnology  
Syllabus Revision**

**Faculty: Biosciences**

**Board: Biotechnology**

**Semester: IV**

**Course Code/Name: 223BT1A4CA/ IMMUNOLOGY**

Unit	Existing	Revised
I	History and scope of immunology - types of immunity - primary and secondary lymphoid organs - immunoglobulin structure - function and synthesis; memory cells, <del>idiotype</del> network, lymphocyte differentiation.	Infections and Immunity, Hematopoiesis , Cells of the immune system
II	Complement systems - structure and function of MHC class I and II molecules -antigen recognition and presentation - Humoral and Cell mediated immuneresponses - immune suppression and immune tolerance – Transplantation immunology- Graft rejection.	-
III	Antigen- antibody reaction, Hypersensitivity - IgE mediated, antibody mediated,immune complex mediated and delayed type hypersensitivity. Tumor immunology-tumor associated antigens, Immune response to tumor. Auto immune disorders.	Treatment to Auto immune disorder
IV	Hybridoma and monoclonal antibody production, immune diagnosis and applications - human monoclonal antibodies, catalytical antibodies – complementfixation - assessment of immune complexes in tissues.	-
V	Vaccines- Immunization types- Vaccine types- live attenuated vaccines, killed vaccines and purified polysaccharide vaccines- toxoid vaccines – recombinant vaccines and DNA vaccines.	Subunit Vaccines,RNA Vaccines and Protein Vaccines

**PERCENTAGE OF SYLLABUS REVISION - 18 %**

**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
<input type="checkbox"/>	Social Awareness/ Environment	<input type="checkbox"/>	Constitutional Rights/ Human Values/ Ethics



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**B.Sc. Biotechnology  
Syllabus Revision**

**Faculty: Biosciences**

**Board: Biotechnology**

**Semester: IV**

**Course Code/Name: 223BT1A4CB/ BIOINFORMATICS**

Unit	Existing	Revised
I	Big Data – Biological data. Retrieval of information. Evolution of Bioinformatics – history, scope and applications. Internet-World wide web - search engines, Entrez, PubMed. Commercial softwares used for biological information	Introduction to Bioinformatics and AI, Commercial software (Geneious, CLC genomics workbench, InsightII, GROMACS, AMBER)
II	Types. Nucleic acid databases (NCBI, EMBL, DDBJ), protein databases (PDB, Expasy, Swiss Prot, Prosite), specialized databases, model organism databases. Phylogenetic trees – evolutionary relationship using PHYLIP	Specialized databases (Gene Ontology (GO), DrugBank, ChEMBL & KEGG) Model organism databases (FlyBase, Saccharomyces Genome Database (SGD), Mouse Genome Database (MGD) & ZFIN)
III	Physical properties – structural and sequence database for proteins – CATH, SCOP, FSSP – fold classification based on structure. Primary, secondary, tertiary, super secondary structures of proteins. Structure and functional relationship of proteins	Protein Structure prediction (I-TASSER, Phyre2 and RaptorX).
IV	Introduction to sequence alignments and dynamic programming: Local alignment, global alignment, pairwise and multiple alignment. FASTA – characteristics, BLAST and its types. Gene expression analysis – cDNA microarray. EST databases (DBEST, UNIGENE).	Retrieval of sequence information from data base. Phylogenetic trees - evolutionary relationship using PHYLIP and MEGA tool-
V	Docking – Principle, steps. Lead compound, protein target. Computer Aided Drug Designing– applications. High throughput screening- working and applications. Molecular modelling and visualization. QSAR. Human Genome project.	Lead Compound (Celecoxib as a lead COX-2 inhibitor) Protein target (HIV protease for antivirals) CADD (SBDD & LBDD) Molecular Modelling and visualization (PyMol)

**PERCENTAGE OF SYLLABUS REVISION : 35 %**

**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
<input type="checkbox"/>	Social Awareness/ Environment	<input type="checkbox"/>	Constitutional Rights/ Human Values/ Ethics



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**B.Sc. Biotechnology**  
**Core Practical Syllabus Revision-New Course**  
**Board: Biotechnology**

**Faculty: Bioscience**

**Semester: IV**

**Course Code/ Name:223BT1A4CP – Core Practical - IV: IMMUNOLOGY & BIOINFORMATICS**

Exp. No.	Existing	Revised
1.	Blood grouping and Rh typing *	Molecular Docking
2.	Preparation of Serum	
3.	Precipitin ring test	
4.	Single Radial Immunodiffusion	
5.	Double Radial Immunodiffusion	
6.	Immuno-electrophoresis	
7.	Rocket Immuno-electrophoresis	
8.	Retrieving data from Biological Databases*	
9.	Retrieving articles with filter criteria (PubMed)	
10.	Pairwise alignment using BLAST	
11.	Construction of phylogenetic trees	
12.	Visualization of protein structures and interpretation	

**PERCENTAGE OF SYLLABUS REVISION : 8 %**

**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
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**B.Sc. Biotechnology**  
**Syllabus Revision (Embedded SEC)-New Course**  
**Faculty: Bioscience** **Board: Biotechnology**  
**Semester: IV**  
**Course Code/ Name: 223BT1A4EP – SEC-II: RECOMBINANT DNA TECHNOLOGY**

Exp. No.	Content
1.	Isolation of plasmid DNA
2.	Isolation of Genomic DNA from Animal, Plant and Bacteria
3.	Isolation of RNA
4.	Restriction Mapping
5.	Ligation
6.	Polymerase Chain Reaction
7.	Restriction Fragment Length Polymorphism (RFLP)
8.	Random Amplified Polymorphic DNA (RAPD)
9.	Western Blotting
10.	ELISA

**PERCENTAGE OF SYLLABUS REVISION : 100 %**

**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
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**B.Sc. Biotechnology  
Syllabus Revision - New Course**

**Faculty: Biosciences**

**Board: Biotechnology**

**Semester: IV**

**Course Code/ Name: 223BT1A4IC/ IDC-Bioinformatics**

Unit	Content
I	Basics of Cell-Chromosome-Genome-Genes and DNA-Central Dogma. Introduction to DNA sequencing - Illumina, Pyro 454 and Ion torrent. Biological Databases: DNA sequence Database-Protein Database and Sequence analysis tools.
II	Genome Mapping-Assembly and Comparison. Structural and Functional Genomics. RNA sequencing and Transcriptomics. Gene Prediction: Computational Methods of Gene Prediction, difficulties and application of gene prediction.
III	Introduction to protein structure, visualization, comparison and classification. Secondary and tertiary protein structure prediction using bioinformatics tools and methods of protein modeling.
IV	Introduction to CADD and drug discovery process. Structural Bioinformatics in drug discovery-SAR and QSAR techniques in drug design. Molecular docking and AutoDock tools.
V	Introduction to Bioinformatics search tools-Entrez and ExPASy. Sequence alignment: DNA Sequence analysis-Protein sequence analysis-Pairwise and Multiple sequences Alignment. Database search-Motif Search (Protein Motifs and Domain Prediction)-Molecular Modeling and Phylogenetic tree construction and analysis.

**PERCENTAGE OF SYLLABUS REVISION : 100 %**

**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 checked="" type="checkbox"/>	Intellectual Property Rights	<input type="checkbox"/>	Gender Sensitization
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**M.Sc. Biotechnology  
Syllabus Revision**

**Faculty: Biosciences  
Semester: IV**

**Board: Biotechnology**

**Course Code/ Name: 223BT2A4CA/ Pharmaceutical Biotechnology**

Unit	Existing	Revised
<b>I</b>	Properties – dynamics of enzymatic activity, sources, extraction and purification: Applications pharmaceutical, therapeutic and clinical. Production of amyloglucosidase, glucose isomerase, amylase and trypsin. Immobilization – applications – perspective of enzyme engineering.	Limitations in the enzyme production
<b>II</b>	Introduction to active constituents - isolation, classification, properties. Systematic pharmacognostic study of a) Carbohydrates and derived products: agar, guar gumm acacia, Honey, Isabgol, pectin, Starch and sterculia b) Lipids: Bees wax, Castor oil, Cocoa butter, Cod-liver oil, Kokum butter, Lard, RiceBran oil, Sharkliver oil and Wool fat.	-
<b>III</b>	Herbal Medicines – Characteristics, Efficacy, importance, allergic reactions. Principles - Ayurveda, Unani, Siddha, Homeopathy. Drugs derived from Animal –Gelatin, Glycerin, Heparin, Lanolin, Premarin, Animal vaccines. Pharmaceutics from Marine source – Cytarabine, Zicomotide, Omega – 3- acid ethyl ester, Trabectodin, Brentuximab vadotin.	Allergic reactions of alkaloids, flavonoids, Terpenoids and Phenolics. Bioavailability of pharmaceutical compounds. Biosimilar Drugs and AI in drug Development
<b>IV</b>	DNA Vaccine construction and immunology, DNA vaccine expression, plasmid delivery of DNA vaccines. Bacterial vaccines and preparation. Peptide vaccine. Antitoxins. Serum-immune blood derivatives and immunity related products. Gene Pharming.	mRNA vaccines
<b>V</b>	Estimation of toxicity LD 50 and ED 50. Immunogenicity of biopharmaceuticals: Factors contributing to immunogenicity (product-related factors, host-related factors), Measurement of immunogenicity. Consequence of immunogenicity to biopharmaceuticals. Neutraceuticals. Economics of drug development.	-

**PERCENTAGE OF SYLLABUS REVISED: 17%**

**COURSE FOCUS ON**

<input checked="" type="checkbox"/>	Skill Development	<input checked="" 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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**M.Sc. Biotechnology  
Syllabus Revision**

**Faculty: Biosciences**

**Board: Biotechnology**

**Semester: IV**

**Course Code/ Name: 223BT2A4DA/ Stem Cell Technology**

Unit	Existing	Revised
I	Scope of stem cells – definition of stem cells – concepts of stem cells – differentiation , maturation , proliferation , pluripotency, self – maintenance and self – renewal – problems in measuring stem cells – preservation protocols.	
II	Stem cell and founder zones in plants – particularly their roots – stem cells of shoot meristems of higher plants.	Isolation and harvesting of Plant stem cells and their limitations.
III	Skeletal muscle stem cell – Mammary stem cells – intestinal stem cells – keratinocyte stem cells of cornea – skin and hair follicles – Tumour stem cells, Embryonic stem cell biology - factors influencing proliferation and differentiation of stem cells – hormone role in differentiation.	
IV	Biology – growth factors and the regulation of haematopoietic stem cells.	Haematopoietic Stem Cells harvesting and limitations, Applications of haematopoietic Stem cells. For better understanding of the type of stem cells.
V	Cellular therapies – vaccines – gene therapy – immunotherapy – tissue engineering – blood and bone marrow – Fc cells.	

**PERCENTAGE OF SYLLABUS REVISED: 15%**

**COURSE FOCUS ON**

<input checked="" type="checkbox"/>	Skill Development	<input checked="" 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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**M.Sc. Biotechnology**  
**Core Practical Syllabus Revision**

**Faculty: Bioscience**

**Board: Biotechnology**

**Semester: IV**

**Course Code/ Name: 223BT2A4CP – Core Practical - VII: PHARMACEUTICAL BIOTECHNOLOGY**

Exp. No.	Existing	Changed
1.	Isolation of Animal Tissues: Intestinal Muscle Preparations	Extraction of Omega 3 fatty acids from algae
2.	Isolation of Animal Tissues: Skeletal Muscle Preparations, Cardiac Muscle Preparations	Determination of Enzyme Activity
3.	In-Vitro Evaluation of Hepatoprotective Drugs	
4.	Evaluation of Antioxidant Activity Using Cell Based Assay Method	
5.	Sterility Testing of Pharmaceutical Drugs	
6.	In-Vitro Genotoxicity Assay	
7.	Mouse Lymphoma Assay (L5178Y TK+/- mouse lymphoma cells)	
8.	Evaluation the extent of DNA damage by In-Vitro Comet assay	
9.	In-Vitro Teratogenicity Testing of the drug	
10.	Pathological Condition Analysis of Animal Tissues by Histopathology	

**PERCENTAGE OF SYLLABUS REVISED: 20%**


**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
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COIMBATORE | INDIA



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		16 <sup>th</sup>

### ATTENDANCE OF THE ~~SIX~~TEENTH BOARD OF STUDIES MEETING

**Faculty: Biosciences**

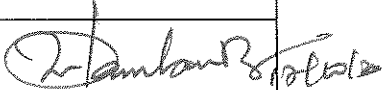
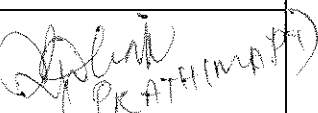
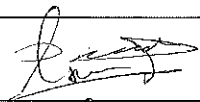


**Board: Biotechnology**

Date : 17/10/2023

Time : 10.00 a.m.

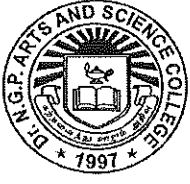
Venue : Department of Biotechnology (Room. No: 1213)

**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.	Dr. V. Vijaya Padma Professor, Department of Biotechnology Bharathiar University, Coimbatore	University Nominee	ABSENT
3.	Dr. S. Nakkeeran Dean i/c, Agricultural College and Research Institute, Kudumiyannalai, Pudukkottai	Subject Expert	ABSENT
4.	Dr. P.T. Prathima, Senior Scientist, Crop Improvement Division, ICAR-Sugarcane Breeding Institute, Coimbatore	Subject Expert	 PRATHIMA P.T.
5.	Dr. M. Prasad R&D Executive – Industrial Enzymes Marisym Biologicals Private Limited, Coimbatore	Industrial expert	M. Prasad 17/10/23
6.	Dr. N. Karthikeyan Project Coordinator, Regional Sericulture & Research Center, Salem	Alumni	ABSENT
7.	Mr. Deepesh Vasnani III B.Sc. Biotechnology	Student Representatives	
	Ms. Dharani M II M.Sc. Biotechnology		 Dharani
8.	Part I (Language I) Dr. N. Kuppuswamy Professor and Head Department of Tamil	Co-opted member	







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

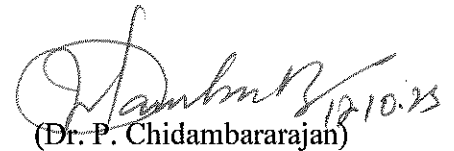
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BoS

16<sup>th</sup>

9.	Part II (Language II) Dr. R. Vithya Prabha Professor and Head Department of English	Co-opted member	R V - P 17/10/23
10.	Allied - IDC- Chemistry Dr. K. Girija Assistant Professor and Head i/c Department of Physics	Co-opted member	K Girija 17/10/2023
11.	Allied - IDC- Python for Biologists Dr. B. Rosiline Jeetha Professor and Head Department of Computer Science	Co-opted member	B Rosiline 17/10/23
12.	Dr. K. Kalimuthu Professor	Internal Member	K Kalimuthu 17/10/23
13.	Dr. R. Suganthi Professor	Internal Member	R Suganthi 17/10/23
14.	Dr. K. Arungandhi Professor	Internal Member	K Arungandhi
15.	Dr. Arun. P Professor	Internal Member	Arun P
16.	Dr. M.N. Kathiravan Professor	Internal Member	M N Kathiravan 17/10/23
17.	Dr. M. Shanmugavadivu Associate Professor	Internal Member	M Shanmugavadivu 17/10/23
18.	Dr. M. Poongothai Associate Professor	Internal Member	ABSENT
19.	Dr. Radha Palaniswamy Assistant Professor	Internal Member	ABSENT
20.	Dr. S. Saranya Assistant Professor	Internal Member	S Saranya 17/10/23
21.	Mrs. C.R. Aarthi Assistant Professor	Internal Member	C R Aarthi 17/10/23

Date: 17/10/2023

  
(Dr. P. Chidambararajan)

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



