

**Kongunadu Arts and Science College (Autonomous)**  
Coimbatore 641029

Department of Biochemistry (2024-25)

**Minutes of the Board of Studies:**

The Board of Studies meeting was held on 17.03.2025 The Chairman welcomed and outlined the changes to be made in the following for the board approval.

Item 1. To consider revision in the Curriculum, Scheme of Examination and Syllabi of UG/PG/Certificate / Diploma courses and approval.

Item 2. To suggest the panel of names for appointment of examiners.

Item 3. Other academic activities in the department.

As per the suggestions and recommendations given by the various Stakeholders on the above items discussed, the existing/revised the Scheme of Curriculum / Scheme of Examination / Syllabi and Panel of Examiners are to be followed is annexed herewith for the implementation from the commencement of the Academic year 2025 – 2026.

The members after careful scrutiny of the changes to be made unanimously accorded approval for the proposed changes/modifications. They also resolved to authorize the Chairman of Board of Studies to place the changes/modifications now approved by the BOS before the Standing Committee on Academic affairs and Academic Council.

**M.Sc., Biochemistry**

S.No	Subject code	Title of the paper	Changes made
1.	25PBC101	Core Paper 1 – Biomolecules and Biopolymers	Unit I-Interchange the words occurrence, properties to distribution. Unit II: Interchange of the topic Water from Unit II to Unit I
2.	25PBC102	Core Paper 2 – Bio analytical techniques	Unit I-Removed the word Electrophoresis technique. Included the word technique and application. Removed application of electrophoresis in analysing macromolecules. Unit II: Removed the word hydrophobic interaction
3.	25PBC103	Core Paper 3 – Enzymes and Enzyme technology	Unit I: Removed the heading classification, purification and active site , replaced the word enzymes Unit V- Included the specific enzymes like Lactase, amylase, protease and pectinase Papain, trypsin and alkaline protease
4.	25PBC104	Core Paper 4 – Cellular Biochemistry	Unit I -Included the term membrane carbohydrates and membrane lipids Added cell adhesion molecules Added gap junction and neurotransmitters
5.	25PBC1CL	Core Practical I: Lab in Biomolecules, Bioinstrumentation, Enzymology and cell biology	Replaced the Estimation of Ascorbic acid with Estimation of Lactose in milk
6.	25PBC205	Core Paper 5-Plant Biochemistry	Added new topic types of lenticular and vernacular transpiration. Added new topic plant toxins and their mechanisms Unit IV and V ha sbeen interchanged

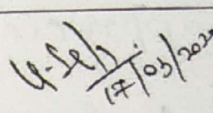
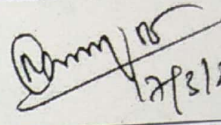
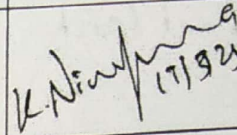
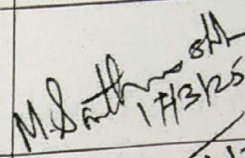
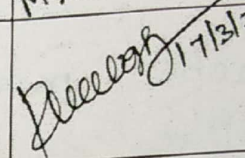
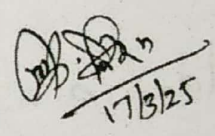
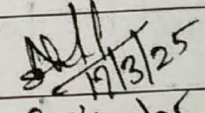
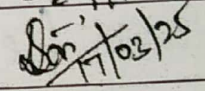
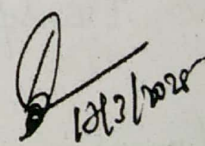


			Unit IV title has been changed as plant transformation techniques.
7.	25PBC206	Core Paper 6 – Metabolism and Metabolic Regulation	Unit II: Remove the term Aerobic and Fermentation Unit II: Replace the heading of Nucleotide to Nucleic acid
8.	25PBC207	Core Paper 7 – Molecular Biology	Added central dogma of life in unit III.
9.	25PBC208	Core Paper 8– Drug Biochemistry	Unit V: Remove the word hypersensitivity
10.	25PBC2CM	Core Practical 2 – Lab in Plant Biochemistry, Genetics and Molecular Biology	Change the title of the paper from Lab in Plant Biochemistry, Genetics and Molecular Biology to Lab in Plant Biochemistry, Microbiology and Molecular Biology Exp 10: Included the term separation using. Exp 12: remove the extraction of total RNA Exp 16: Replace the term blotting techniques to Western blotting (demo)
11.	25PBC309	Core Paper 9 – Advanced Immunology and immunological techniques	Change the title of the paper from Advanced Immunology and immunological techniques to immunology and immunological techniques Added mRNA vaccines, vector vaccines, and biomaterial-based vaccines in unit IV Added western blot, FCS in unit V
12.	25PBC310	Core Paper 10 – Biostatistics and research methodology	Interchange the title from Biostatistics and research methodology to research methodology and Biostatistics. Unit IV: Included chi-square test Unit V: included the topic funding agencies
13.	25PBC311	Core Paper 11– Advanced Clinical Biochemistry	Unit IV: Removed the topic Estimation of GFR and cystatin C in serum. Unit V: included the topic DPPH, ABTS, NO and ferric oxide

14.	25PBC412	Core Paper 12 – Hormonal Biochemistry	Unit III: Included Parathyroid hormone in the sub title
15.	25PBC413	Core Paper 13. Genetic Engineering	Unit IV: included the topic OMICS and Next Gen sequencing.
16.	25PBC1E1	Major Elective: Microbiology	Changed the Title from Microbiology to Microbial Technology
17.	25PBC3N1	Non Major Elective – Cancer Biology	Unit V: Changed the subtitle from Local treatment of cancer to causes of cancer
18.	25PBC1E1	Major Elective:	Introduced two new papers namely Environmental management and Biopharmaceuticals.
19.		Certificate Course	Introduced two new certificate course namely Certificate course on medical laboratory technology and Certificate course on Baking science and technology .

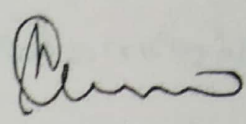
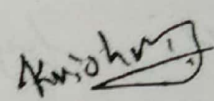
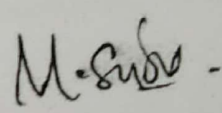


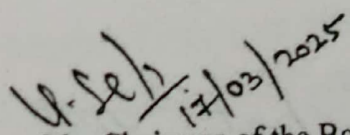
## Signature of the Board Members

Name	Name	Designation	Signature
	<b>Chair person</b> Dr.V.Selvi	Associate Professor & Head of the Department	 17/03/25
	<b>Members of the Faculty (UG)</b>		
	1. Dr.R.T.Narendhirakannan	Assistant Professor	 17/3/25
	2. Dr K.Nirubama	Assistant Professor	 17/3/25
	3. Dr. M.Santhoshkumar	Assistant Professor	 17/3/25
	4. Dr. R.Venkatesh	Assistant Professor	 17/3/25
	<b>Members of Faculty of the Department (PG)</b>		
	1. Dr. J. Anitha	Assistant Professor & Head (i/c), PG & Research Department of Biochemistry	 17/3/25
	2. Dr. S.Monisha	Assistant Professor	 17/3/25
	3. Dr. S. Kavitha	Assistant Professor	 17/03/25
	<b>University Nominee</b> Dr. S. Selvi	Associate Professor Department of Biochemistry Bharathidasan College of Arts and Science Elispettai, Erode 638 116	 17/3/25

		Mobile: 9944555090 Mail ID ramselvister@gmail.com	
	<b>Subject Experts</b> 1. Dr. <del>D</del> Kavitha <i>R.</i>	Professor & Head Department of Biotechnology Periyar University Salem 636011 Mobile 8610075860 Mail Id: drkavitha@periyaruniversity.ac.in	<i>[Signature]</i> 17/3/2025
	2.Dr. N.Vijayakumar	Assistant Professor Department of Biochemistry & Biotechnology Annamalai University Annamalai Nagar Chidambaram 608002 Mobile: 9842574258 Mail Id: <u>nvkbiochem@yahoo.co.in</u>	<i>N.V.</i> 17/3/2025
	<b>Alumni Member</b> Dr.K.Rajathi	Professor Department of Biochemistry Dr.N.G.P. Arts and Science College Dr.N.G.P. Nagar Kalapatti Road Coimbatore- 641 048 Mobile No : 8610960694 Email Id: rajathi@drngpasc.ac.in	<i>[Signature]</i> 17/3/2025



<b>Industrial Member</b> Dr. Saravanan Ganesan	Director Nanolab Diagnostic & biomedical Research centre, 1 <sup>st</sup> Floor, Kothai Plaza Opp, Murugan Kovil, Salem Main Raod, Namakkal 637 001. Mobile No : 9362510010 nanolab.nkl@gmail.com	
<b>Student Nominee (PG)</b> Mr.S. Krishnakumar (211BC017)	I MSc Biochemistry, Kongunadu Arts and Science College, Coimbatore 641029	
<b>Student Nominee (UG)</b> Ms. M.Saisree (221BC035)	III BSc Biochemistry, Kongunadu Arts and Science College, Coimbatore 641029	

  
Signature of the Chairman of the Board  
**Dr. V. SELVI, M.Sc., M.Phil., Ph.D.,**  
Associate Professor & Head  
Department of Biochemistry  
Kongunadu Arts & Science College  
Coimbatore - 641 029