

J.J College of Arts and Science(Autonomous)
Sivapuram post, Pudukkottai-622 422
(Re-Accredited by NAAC-4th cycle)
Affiliated to Bharathidasan University, Tiruchirappalli
PG and Research Department of Biochemistry
Minutes of the Board of Studies Meeting

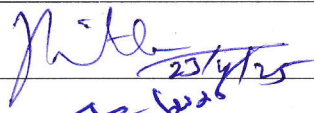
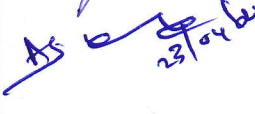
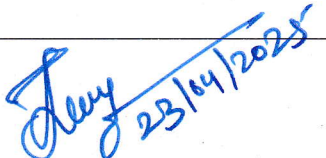
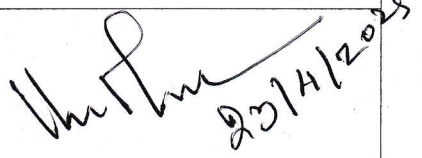
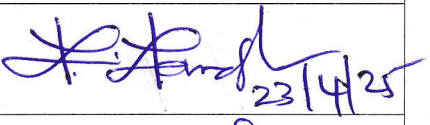
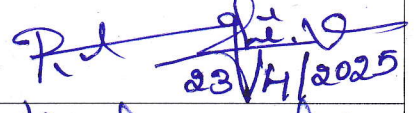
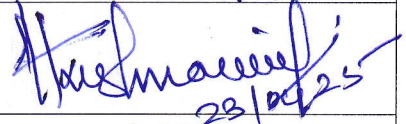
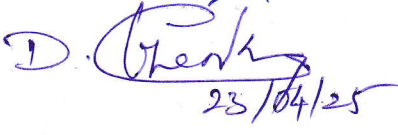
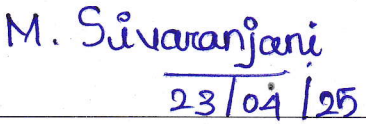
Meeting No:9

Date: 23.04.2025

Time: 11.00 a.m.

The meeting of the Board of Studies in Biochemistry (U.G. and P.G.) for the ninth revision of the curricula to be implemented from 2025-2026, was conducted at 11.00 a.m. on Wednesday, 23.04.2025.

Members Present:

S.No.	Name	Designation	Signature
1.	Dr. S. Kanitha Associate Professor & Head	Chairperson	 23/4/25
2.	Dr. A. Antony Joseph Velanganni, Associate Professor Department of Biochemistry Bharathidasan University Tiruchirappalli	University Nominee	 23/04/2025
3.	Dr. Joseph Sahayarayan, Assistant Professor, Department of Bioinformatics, Alagappa University, Karaikudi.	Subject Expert	 23/04/2025
4.	Dr. K. Karthikeyan, Assistant Professor, Department of Food Science and Nutrition, Periyar University, Salem.	Subject Expert	 23/4/2025
5.	Dr. R. Ramesh	Faculty member	 23/4/25
6.	Ms. V. Raghavi	Faculty member	 23/4/2025
7.	Ms. R. Krishnaveni	Faculty member	 23/04/25
8.	Dr. D. Praveen Kumar, Research Scientist, KIRND Institute of Research and Development Pvt. Ltd., Tiruchirppalli.	Representative from Industry	 23/04/25
9.	Ms. M. Sivaranjani, Medical Code Trainee, Vee Health Tek, Tiruchirappalli.	Alumnus	 23/04/25

The Chairperson Dr. S. Kanitha chaired the meeting and welcomed all the members to the eighth BOS meeting.

Resolutions of the BOS in Biochemistry

1.It is resolved to introduce a course titled **“Health and Wellness ”- U3R3HW** (under Part- V) in the third semester of the U.G Programme for students admitted from the Academic Year 2024-2025 in keeping with the instructions from the Parent University. (Vide . Letter from Registrar i/c No.692/CCCD/BDU/ C-1/2024, dated 30.12.2024). The syllabus will be as indicated by TANSCH and the evaluation would be as follows, with no formal examination.

Activities (Observation during Practice) : 40 Marks

Attendance : 20 Marks

Report : 40 Marks

The weightage for this course will be 01 credit – 02 teaching hours per week.

Distribution of Courses - U.G.

Sl. No.	Part	Courses	No. of Courses	No. of Credits	Marks
1.	I	Language Courses	4	12	400
2.	II	English Courses	4	12	400
3.	III	Core Courses	8	37	800
4.		Core Practical	6	28	600
5.		Project Work	1	04	100
6.		Discipline Specific Elective Courses	8	24	800
7.	IV	Internship	1	02	100
8.		Skill Enhancement Courses	7	14	700
9.		Value Education	1	02	100
10.		Environmental Studies	1	02	100
11.		Foundation Course	1	02	100
12.	V	Health and Wellness	1	01	100
13.		Gender Studies	1	01	100
14.		Extension Activity	-	01	-
Total			44	142	4400

Distribution of Courses - P.G.

Sl. No.	Types of the Courses	No. of Courses	No. of Credits	Marks
1.	Core Courses	12	58	1200
2.	Project Work	01	10	100
3.	Discipline Specific Elective Courses	05	15	500
4.	Internship	01	03	100
5.	Skill Enhancement Courses	02	04	200
Total		21	90	2100

2. To review the existing curricula and courses and make changes wherever necessary in the light of stake holder's feedback.
3. It is resolved to motivate the Students to do concurrent Courses under SWAYAM / MOOCS.
4. It is resolved to continue with the Value Added Courses offered by the Department with modifications, wherever necessary.
5. It is resolved to follow a total of 44 courses with 4400 marks and 142 credits for the U.G programme and 21 courses with 2100 marks with 90 credits for the P.G programme.
6. It has been resolved to include **Indian Traditional Medicinal and Aromatic Plants (U6R3BCSEC7:3)** in the 6th Semester of U.G programme.
6. It has been resolved to maintain the existing curricula, as their implementation has proven to be effective.

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J.J. COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS), PUDUKKOTTAI.
DEPARTMENT OF BIOCHEMISTRY

B.Sc Biochemistry

Proposed Course Structure under Autonomous
Status Under Choice Based Credit System

(Applicable for the candidates admitted from academic year 2025-2026 onwards)

S.No.	Course Category	Course Code	Course	Credits	Hours/ Week	Marks		
						CIA	ESE	Total
Semester I								
1	Part - I	U1R3RTL1/HL1/FL1	Language - I (Tamil/Hindi/French)	3	6	25	75	100
2	Part - II	U1R3REL1	Language - II (English)	3	6	25	75	100
3	Part - III	U1R3BCCC1	Biomolecules	5	5	25	75	100
4		U1R3BCCC2P	Practical I – Covering CC1	5	5	40	60	100
5		U1R3BCDSE1	Chemistry-I	3	4	25	75	100
6	Part - IV	U1R3CSSEC1	NME - 1	2	2	25	75	100
7		U1R3BCFC	Foundation Course	2	2	25	75	100
Total				23	30	-	-	700
S.No.	Course Category	Course Code	Course	Credits	Hours/ Week	Marks		
						CIA	ESE	Total
Semester II								
1	Part - I	U2R3RTL2/HL2/FL2	Language - I (Tamil/Hindi/French)	3	6	25	75	100
2	Part - II	U2R3REL2	Language - II (English)	3	6	25	75	100
3	Part - III	U2R3BCCC3	Cell Biology	5	5	25	75	100
4		U2R3BCCC4P	Practical II - (Covering CC3)	5	5	40	60	100
5		U2R3BCDSE2	Chemistry-II	3	4	25	75	100
6	Part - IV	-	NME - 2	2	2	25	75	100
7		U2R3BCSEC 3:1 / 3:2	Biomedical Instrumentation/First Aid	2	2	25	75	100
4/22/2025 Total				23	30	-	Biochem	700
S.No.	Course Category	Course Code	Course	Credits	Hours/ Week	Marks		
						CIA	ESE	Total
Semester III								
1	Part - I	U3R3RTL3/HL3/FL3	Tamil	3	5	25	75	100
2	Part - II	U3R3REL3	English	3	5	25	75	100
3	Part - III	U3R3BCCC5	Biochemical Techniques	5	5	25	75	100
4		U3R3BCCC6P	Practical - III (Covering CC5)	5	5	40	60	100
5		U3R3BCDSE3:1/ U3R3BCDSE3:2	Fundamentals of Biology/ Genetics	3	4	25	75	100
6	Part - IV	U3R3VE	Value Education	2	2	25	75	100
7		U3R3BCSEC4:1/ U3R3BCSEC4:2	Medical Laboratory technology/ Microbiology	2	2	25	75	100
8	Part - V	U3R3HW	Health and Wellness	1	2	-	-	100
Total				24	30	-	-	800

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Deep
23/04/2025

W. P.
23/04/2025

D. Ganesan
23/04/25

g. l. h.
23/4/25

S.No.	Course Category	Course Code	Course	Credits	Hours /Week	Marks		
						CIA	ESE	Total
Semester IV								
1	Part - I	U4R3RTL4/HL4/FL4	Tamil	3	5	25	75	100
2	Part - II	U4R3REL4	English	3	5	25	75	100
3	Part - III	U4R3BCCC7	Clinical Biochemistry	5	5	25	75	100
4		U4R3BCCC8P	Practical – IV (Covering CC7)	5	5	40	60	100
5		U4R3BCDSE4: 1 / 4:2	Immunology/ Life Style Disorders	3	4	25	75	100
6	Part - IV	U4R3BCSEC5:1 / 5:2	Biostatistics/Nutrition	2	2	25	75	100
7		U4R3BCSEC6:1 / 6:2	Medical Coding/Biophysical chemistry	2	2	25	75	100
8		U4R3ES	Environmental Studies	2	2	25	75	100
Total				25	30			800

S.No	Course Category	Course Code	Course	Credits	Hours/ Week	Marks		
						CIA	ESE	Total
Semester V								
1	Part - III	U5R3BCCC9	Enzymology	5	5	25	75	100
2		U5R3BCCC10	Intermediary Metabolism	4	5	25	75	100
3		U5R3BCCC11	Human Physiology	4	5	25	75	100
4		U5R3BCCC12P	Practical – V (Covering CC9, CC9 & CC10)	4	5	40	60	100
5		U5R3BCDSE 5:1 / 5:2	Biochemical Pharmacology/ Bioethics and patenting	3	5	25	75	100
6		U5R3BCDSE 6:1 /6:2P	Bio-entrepreneurship/ Pain relief formulation and cosmetics	3	5	25	75	100
7	Part -IV	U5R3BCINT	Internship	2	-	-	-	100
Total				25	30			700

* Internship during Semester – IV Summer Vacation. The Credits shall be awarded in Semester – V Statement of Marks.

S.No	Course Category	Course Code	Course	Credits	Hrs/ Week	Marks		
						CIA	ESE	Total
Semester VI								
1	Part - III	U6R3BCCC13	Molecular Biology	4	6	25	75	100
2		U6R3BCCC14	Plant Biochemistry and Plant Therapeutics	4	5	25	75	100
3		U6R3BCCC15 PW	Project Work	4	6	-	-	100
4		U6R3BCDSE 7:1/7:2	Bioinformatics/ Tissue culture	3	5	25	75	100
5		U6R3BCDSE 8:1 /8:2	Biotechnology/Research Methodology	3	5	25	75	100
6	Part - IV	U6R3BCSEC 7:1 / 7:2/7:3	Basics of forensic science/Microbial Techniques/Indian Traditional Medicinal and Aromatic Plants	2	2	25	75	100
7	Part - V	U6R3GS	Gender Studies	1	1	25	75	100
		-	Extension Activity	1	-	-	-	-
Total				22	30	-	-	700
Grand Total				142	-	-	-	4400

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J.J. COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS), PUDUKKOTTAI.

DEPARTMENT OF BIOCHEMISTRY

M.Sc. BIOCHEMISTRY

Proposed Course Structure under Autonomous Status Under Choice Based Credit System

(Applicable for the candidates admitted from academic year 2025-2026 onwards)

S.No.	Course Code	Course	Credits	Hours/ Week	Marks		
					CIA	ESE	Total
Semester I							
1	PIR3BCCC1	Basics of Biochemistry	5	7	25	75	100
2	PIR3BCCC2	Biochemical and Molecular Biology Techniques	5	7	25	75	100
3	PIR3BCCC3P	Practical-I(Covering CC1 & CC2)	4	6	40	60	100
4	PIR3BCDSE1	Microbiology and Immunology	3	5	25	75	100
5	PIR3BCDSE2	Scientific Writing and Communications	3	5	25	75	100
Total			20	30			500
S.No	Course Code	Course	Credits	Hours/ Week	Marks		
					CIA	ESE	Total
Semester II							
1	P2R3BCCC4	Enzymology	5	6	25	75	100
2	P2R3BCCC5	Cellular Metabolism	5	6	25	75	100
3	P2R3BCCC6P	Practical II - (Covering CC4 & CC5)	4	6	40	60	100
4	P2R3BCDSE3	Biostatistics and Data Science	3	4	25	75	100
5	P2R3BCDSE4	Biosafety, Lab Safety and IPR	3	4	25	75	100
6	P2R3BCSEC1	Bioinformatics	2	4	25	75	100
Total			22	30			600
Sl.No.	Course Code	Course	Credits	Hours/ Week	Marks		
					CIA	ESE	Total
Semester III							
1	P3R3BCCC7	Clinical Biochemistry	5	6	25	75	100
2	P3R3BCCC8	Molecular Biology	5	6	25	75	100
3	P3R3BCCC9	Immunology	5	6	25	75	100
4	P3R3BCCC10P	Practical III (Covering CC7, CC8 & CC9)	5	6	40	60	100
5	P3R3BCDSE 5:1/5:2	Nutritional Biochemistry/ Biochemical Toxicology	3	3	25	75	100
6	P3R3BCSEC2: 1/2:2	Molecular basis of diseases & therapeutic Strategies/ Developmental Biology	2	3	25	75	100
7	P3R3BCINT	Internship	3	-	-	-	100
Total			28	30			700

***Internship during Semester II - Summer Vacation**

* Internship during Semester II - Summer vacation							
Sl.No.	Course Code	Course	Credits	Hours/ Week	Marks		
					CIA	ESE	Total
Semester IV							
1	P4R3BCCC11	Industrial Microbiology	5	6	25	75	100
2	P4R3BCCC12	Pharmaceutical Biochemistry	5	6	25	75	100
3	P4R3BCCC13PW	Project Work	10	18	-	-	100
Total			20	30			300
Grand Total			90	120			2100

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