

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

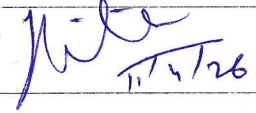
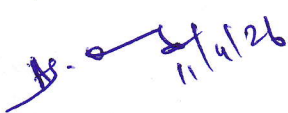
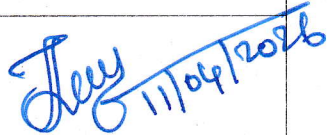
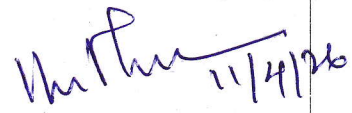
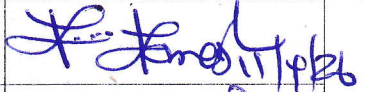
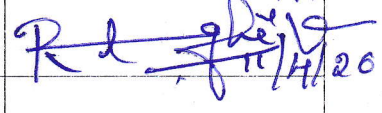
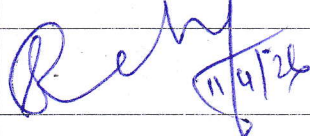
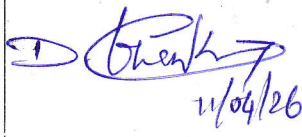
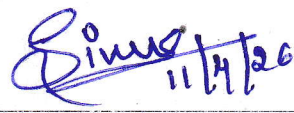
Meeting No:10

Date: 11.04.2026

Time: 11.00 a.m.

The meeting of the Board of Studies in Biochemistry (U.G. and P.G.) for the 10th revision of the curricula to be implemented from 2026-2027, was conducted at 11.00 a.m. on Saturday, 11.04.2026.

Members Present:

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

The Chairperson Dr. S. Kanitha chaired the meeting and welcomed all the members to the 10th BoS meeting. As part of our Autonomy, the Curricula for all the Programmes offered in the College have to be revised once in every three years.

Hence, this meeting is called for.

Resolutions of the BOS in Biochemistry

The 10th **Board of Studies Meeting** of the Department of **BIOCHEMISTRY** was held on **11.04.2026 at 11.00 a.m.** in the Department.

The following resolutions were proposed, discussed, finalized and passed in the Board of studies meeting of Biochemistry for the **B.Sc Biochemistry Programme and M.Sc Biochemistry Programme** which is to be implemented from the ensuing Academic year 2026 – 2027 onwards, pertaining to the approval from the Academic Council of the college.

General Resolutions passed in the Meeting

It was resolved

1. To approve the revised UG and PG curriculum, in accordance with the guidelines of UGC-LOCF, NAAC, TANSCH and the Parent University.
2. To approve the Curriculum, Course Structure (Syllabi) and Textbooks recommended for implementation from the academic year 2026-2027 onwards.
3. To approve the General Course Structure for the B.Sc Biochemistry and M.Sc Biochemistry Programmes, along with the syllabi for the first two semesters, were discussed and scrutinized for implementation from the academic year 2026-27 onwards.
4. To approve the following course structure for UG and PG Programmes respectively.

Distribution of Courses – UG

Part	Semester	Course	No. of Courses	Credit	Marks
I	1 - 4	Language – (Tamil/Hindi/French/Sanskrit)	04	12	400
II	1 - 4	Language – English	04	12	400
III	1 - 6	Core Course (Theory)	15	96 (CC – 69, AC – 18, DSE – 09)	2400
	1 - 4	Allied Course (Theory)	06		
	5 & 6	Discipline Specific Elective	03		
IV	5	Internship	01	02	1200
	3, 4 & 5	Skill Enhancement Course (SEC)	03	06	
	1 & 2	Generic Elective Course (IDC)	02	04	
	3, 4, 5 & 6	Ability Enhancement Compulsory Course (AECC) (EVS, VE, DM, GS)	04	08	
	4 & 5	Self – Learning Course	02	04	
	6	Value Added Course	01	02	

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V	3	Health and Wellness	01	01	100
	6	Extension Activity	-	01	-
Grand Total			46	148	4600

Distribution of Courses –PG

S.No.	Semester	Course	No. of Courses	Credit	Marks
1.	1 - 4	Core Courses (Theory & Practical)	12	60	1200
2.	1 & 2	Discipline Specific Elective Course	03	12	300
3.	1 - 3	Skill Enhancement Course	03	09	300
4.	3	Generic Elective Course	01	03	100
5.	4	Project Work	01	07	100
6.	3	Internship	01	02	100
7.	2	Self – Learning Course	01	02	100
Grand Total			22	95	2200
8.	4	Value Added Course (Extra Credit Course)	01	02	100

5. To approve the changes made in the curriculum based on the special feedback received from all stake holders on the existing curricula, courses and Syllabi.
6. To adopt the revised Bloom's Taxonomy in framing the Course Outcomes.
7. To approve the newly incorporated guidelines on Curriculum Design prescribed by NAAC.
 - a. The curriculum framework has been aligned with OBE by defining POs, COs & PEOs/PSOs.
 - b. Generic Open Elective Courses for UG and PG Programmes have been designed in alignment with the CBCS to ensure curriculum flexibility.
 - c. Practical and Industry focused field work/project and Internship Training have been incorporated into the curriculum.
 - d. Skill oriented courses offered by the Departments are aligned with NCrF, NSQF, and NHEQF.
 - e. Greater focus has been given to incorporate components of Indian Knowledge Systems into the curriculum.
 - f. Online courses for UG and PG through SWAYAM / SWAYAM PLUS have been incorporated into the curriculum.

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- g. A relationship matrix mapping for COs, POs and PSOs has been implemented for all courses.
 - h. The Curriculum addresses local, regional, national and global needs.
 - i. Courses focus on Employability, Entrepreneurship and Skill Development.
 - j. Courses also emphasize Gender, Environment and Sustainability, Human Values and Professional Ethics.
8. To approve the inclusion of a self-learning course from SWAYAM / SWAYAM PLUS for the UG programme in the 4th semester, carrying two credits and 100 marks, and a subject related self-learning course offered by the department in the 5th Semester also carrying two credits and 100 marks.
 9. To approve that, in the fourth semester, if a student is unable to complete the SWAYAM course, the student shall be permitted to take an optional course offered by the Department under the self-learning category only in the final semester.
 10. To approve the inclusion of self-learning course from SWAYAM / SWAYAM PLUS for PG programme in the 2nd Semester carrying two credits and 100 marks.
 11. To approve the inclusion of Value Added Course in the sixth semester for the UG Programme under Part – IV.
 12. To approve the Value Added Course to be treated an extra credit course for all PG Programmes. The credit will not be included in CGPA.
 13. To approve the new evaluation pattern of CIA – 30, ESE –70 for both UG and PG programmes as per the guidelines given by UGC and TANSCHÉ on Examination and Evaluation reforms.
 14. To approve the following pattern for the calculation of CIA

UG		PG	
Category	Marks	Category	Marks
Mid-Semester	7.5	Mid-Semester	7.5
Model Exam	7.5	Model Exam	7.5
Assignment 1	05	Assignment 1	05
Assignment 2	05	Assignment 2	05
Attendance	05	Quiz / Seminar	05
Total	30	Total	30

15. To approve the following question paper pattern for the ESE – 70 marks:

S. No	Section	Marks
1	Part - A	10 x1 = 10 (5 MCQ & 5 Fill in the blanks)
2	Part - B	5 x 2 = 10 Marks
3	Part - C	5x4 = 20 marks (either... or choice/)
4	Part - D	3x10 = 30 marks (Open choice)
Total		70 marks

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16. To approve the following evaluation pattern for the UG & PG project:

S. No	Description	Marks
1	Plan of the Project	20
2	Logical Execution of the Plan	40
3	Innovation	
4	Usage of Modern Tools / Technology	
5	Individual Contribution / Group Activity	
6	Project Report	20
7	Viva-Voce	20
Total		100

17. To approve the internship training shall be undertaken by UG students during their IV semester summer vacation and by PG students during their II semester summer vacation with a duration of 15 to 21 working days.

18. To approve the continuance of awarding credits for the internship course to be reflected in the 5th Semester mark statement for UG programmes and in the III semester mark statement for PG programmes. The scheme for awarding marks for UG and PG programmes are as follows:

S. No	Description	Marks
1	Report	50
2	Viva Voce	50
Total		100

19. To continue to follow the existing evaluation system for the Health and Wellness Course

Scheme of Evaluation:

Part	Description	Marks
A	Report	40
B	Attendance	20
C	Activities (Observation During Practice)	40
Total		100

20. To approve the inclusion of Introduction to Disaster Management as Ability Enhancement Course in the 5th Semester for all UG Programmes.

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21. To approve the following system for students who have not studied Tamil under Part – I (Languages).

INTERDISCIPLINARY COURSE (IDC) # FOR WHO HAVE NOT STUDIED TAMIL UNDER PART - I		
Those who have studied Tamil upto 10 th +2 but opt for other languages in degree	1 st Semester	Special Tamil - I
	2 nd Semester	Special Tamil - II
Those who have not studied Tamil in school level	1 st Semester	Basic Tamil - I
	2 nd Semester	Basic Tamil - II

22. It is resolved to have the following 15 core courses for UG semester-wise

Semester-I

- **Biomolecules(U1R4BCCC1)** : It is the Core Course of the previous curriculum with slight modification in the content.
- **Major Practical-I(U1R4BCCC2P)** : It is the Core Course of the previous curriculum with slight modification in the content.

Semester-II

- **Cell Biology(U2R4BCCC3)**: It is the Core Course of the previous curriculum which is retained as such.
- **Major Practical-II(U2R4BCCC4P)**: It is the Core Course of the previous curriculum which is retained as such.

Semester-III

- **Enzymology(U3R4BCCC5)**
- **Major Practical-III(U3R4BCCC6P)**

Semester-IV

- **Biotechnology(U4R4BCCC7)**
- **Major Practical-IV(U4R4BCCC8P)**

Semester-V

- **Clinical Biochemistry (U5R4BCCC9)**
- **Intermediary Metabolism(U5R4BCCC10)**
- **Immunology (U5R4BCCC11)**
- **Major Practical-V(U5R4BCCC12P)**

Semester-VI

- **Molecular Biology(U6R4BCCC13)**

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11/04/2026

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➤ **Major Practical-VI(U6R4BCCC14P)**

➤ **Project Work (U6R4BCCC15PW)**

23. It is resolved to have the following 08 Allied Courses for UG semester-wise

Semester-I

➤ **Chemistry-I(U1R4BCAC1)** : It is the Allied Course of the previous curriculum with slight modification in the content.

➤ **Allied Practical-I(U1R4BCAC2P)** : It is the Allied Course newly introduced.

Semester-II

➤ **Fundamentals of Microbiology(U2R4BCAC3)** : It is the Allied Course newly introduced.

➤ **Allied Practical-II(U2R4BCAC4P)**: It is the Allied Course newly introduced.

Semester-III

➤ **Fundamentals of Biology(U3R4BCAC5)**

Semester-IV

➤ **Biostatistics(U4R4BCAC6)** : It is the Allied Course newly introduced.

24. It is resolved to offer the following Generic Elective Courses

➤ **Life style diseases: It is the Generic Elective Course newly introduced Health and Nutrition**
It is the Non-major Elective Course newly introduced.

➤ **Lifestyle diseases: It is the Generic Elective Course newly introduced Health and Nutrition**

25. It is resolved to offer the following Discipline Specific Elective courses

➤ **Human Anatomy & Physiology/ Cell culture (U5R4BCDSE1:1 / 1:2)**

➤ **Endocrinology/Medical coding (U6R4BCDSE2:1/ 2:2)**

➤ **Plant & Animal Biochemistry/ Biophysical Studies (U6R4BCDSE3:1/ 3:2)**

26. It is resolved to offer the following Ability Enhancement Compulsory Courses

➤ Value Education (U3R4AECC1)

➤ Environmental Studies (U4R4AECC2)

➤ Introduction to Disaster Management(U5R4AECC3)

➤ Gender Studies(U6R4AECC4)

27. It is resolved to offer Health and Wellness(U3R4HW) in the 3rd semester.

28. It is resolved to offer the following Self Learning Courses

➤ **Online Courses (MOOC's / NPTEL) / Bioinstrumentation(U4R4BCSLC1:1/1:2)**

➤ **Clinical Lab Management/Indian traditional medicine (U5R4BCSLC2:1 / 2:2)**

29. It is resolved to offer Value Added course- Mushroom Cultivation
Technology(U6R4BCVAC) in the 6th semester.

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30. It is resolved to offer the following Skill Enhancement Courses

- Nutrition & Dietetics/First-aid management (U3R4BCSEC1:1 /1:2)
- Formulation of therapeutic and cosmetic products/Medicinal diet (U4R4BCSEC2:1P / 2:2)

31. Bioinformatics/Sports Nutrition(U5R4BCSEC3:1 / 3:2)

32. It is resolved to offer "Internship Programme" for the undergraduate students in their 5th semester for the undergraduate students.

33. It is resolved to have the following 12 Core Courses for PG programme semester-wise

Semester-I

- **Advanced Biomolecules (P1R4BCCC1)** :It is a newly introduced course
- **Enzyme Technology (P1R4BCCC2)**: It is the core course of the previous curriculum which is modified slightly.
- **Major Practical-I (P1R4BCCC3P)** : It is the Core Course newly introduced.

Semester-II

- **Intermediary Metabolism & Regulation (P2R4BCCC4)** : It is the core course of the previous curriculum which is modified slightly.
- **Analytical Biochemistry(P2R4BCCC5)** : It is the Core Course newly introduced.
- **Major Practical-II(P2R4BCCC6P)** : It is the Core Course newly introduced

Semester-III

- **Clinical Biochemistry & Diagnostic Biochemistry (P3R4BCCC7)**
- **Immunotechnology (P3R4BCCC8)**
- **Molecular Biology (P3R4BCCC9)**
- **Major Practical-III (P3R4BCCC10P)**

Semester-IV

- **Pharmaceutical Bioinformatics & Biochemistry (P4R4BCCC11)**
- **Scientific research (AI) and Career Development (P4R4BCCC12)**
- **Project Work (P4R4BCCC13PW)**

34. It is resolved to offer the following Discipline Specific Elective courses for the PG programme

- **Advanced Microbiology/ Industrial Microbiology(P1R4BCDSE1:1/1:2)** : It is the Discipline Specific Elective course introduced newly.
- **Food Biochemistry & Quality Control / IPR (P1R4BCDSE2:1/2:2)** : It is the Discipline Specific Elective course introduced newly.
- **Phytochemical analysis & Techniques/Plant secondary metabolites(P2R4BCDSE3:1/3:2)** :

35. It is resolved to offer the following Skill Enhancement Courses for the PG programme

- **Industrial & Environmental Biochemistry/Dairy Biochemistry (P1R4SEC1:1/1:2)** : It is the Skill Enhancement Course newly introduced.

- **Bioindustrial management/Food Adulteration (P2R4SEC2:1/2:2)** : It is the Skill Enhancement Course newly introduced.
- **Entrepreneurship (P3R4BCSEC3)**: It is the Skill Enhancement Course newly introduced.

36. It is resolved to offer the following Self Learning Courses

- **Online Courses (MOOC's / NPTEL) / AYUSH (P2R4BCSLC1:1 / 1:2)**
- **Clinical Lab Management/Indian traditional medicine(U5R4BCSLC2:1 / 2:2)**

37. It is resolved to offer Value Added course- Organic manuring and fertilizer technology (P4R4BCVAC) in the 6th semester.

38. It is resolved to offer Generic Elective Course- Medicinal Diet (P3R4BCGEC) to other departments in the 3rd semester.

39. It is resolved to retain the Internship programme at the end of 2nd semester for PG programme.

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