

J.J. College of Arts and Science (Autonomous)
J.J. Nagar, Sivapuram Post, Pudukkottai – 622 422
(Re-Accredited by NAAC – 4th Cycle)
Affiliated to Bharathidasan University, Tiruchirappalli

PG and Research Department of Microbiology

Minutes of the Board of Studies Meeting

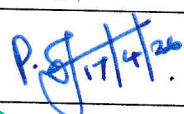
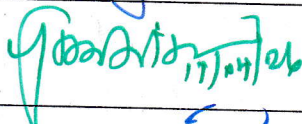
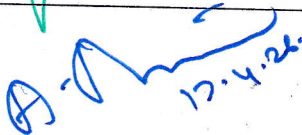
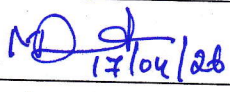
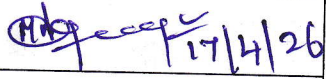
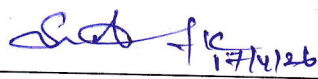
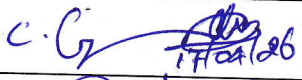
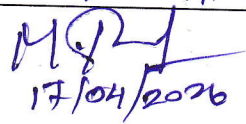
Meeting No: 10

Date : 17.04.2026

Time : 10.30 a.m.

The Meeting of the Board of Studies in Microbiology (U.G. and P.G.) was held at 10.30 a.m. on 17.04.2026 (Friday) for the Eight revision of the Curricula for I & II Semesters for the students admitted in 2026 – 2027 onwards.

Members Present:

S.No.	Name	Designation	Signature
1.	Dr.P.Jeevan Head, Department of Microbiology	Chairperson	
2.	Dr.G.Muralitharan Professor, Department of Microbiology, Bharathidasan University, Tiruchirappalli	University Nominee	
3.	Dr.A.Arun Professor and Head Department of Microbiology Alagappa University, Karaikudi	Subject Expert	
4.	Dr.P.U.Mahalingam Professor, Department of Biology The Gandhigram Rural Institute (Deemed to be University), Dindigul	Subject Expert	Attended online
5.	Dr.M.Poornima Assistant Professor	Member	
6.	Dr.M.Anjugam Assistant Professor	Member	
7.	Dr.K.Surendirakumar Assistant Professor	Member	
8.	Mr.C.Ganapathy Assistant Professor	Member	
9.	Mr.M.Ramesh Assistant Manager, Quality Control E.I.D – Parry (India) Limited Oonaiyur Village, Pudukkottai	Representative from Industry	
10.	Ms.T.Pavithra Lab Technician Dr.Adityan Skin and Hair Laser Center, Asoke Nagar, Chennai	Alumni	Absent

The Chairman, Dr.P.Jeevan chaired the meeting and welcomed all the members to the Tenth BoS Meeting. After the brief introduction, the following resolutions were discussed and passed.

Resolutions

It was resolved

1. To approve the revised UG and PG curriculum, in accordance with the guidelines of UGC-LOCF, NAAC, TANSCHÉ 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. and M.Sc. Microbiology, 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	100
	3, 4 & 5	Skill Enhancement Course (SEC)	03	06	1200
	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	
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.
 - 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 – 3 out of 5)
Total		70 Marks

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.

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

Generic Elective 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. Resolved to have the following **15 Core Courses in the 6 semesters** of UG

Sl. No.	Course Code	Course Name	Revised / Renamed / Newly Introduced
Semester I			
1.	U1R4MBCC1	Fundamentals of Microbiology	Revised & Renamed
2.	U1R4MBCC2P	Major Practical I – Covering CC1	Revised
Semester II			
3.	U2R4MBCC3	Microbial Physiology and Metabolism	Revised
4.	U2R4MBCC4P	Major Practical II - (Covering CC3)	Revised
Semester III			
5.	U3R4MBCC5	Immunology	-
6.	U3R4MBCC6P	Major Practical - III (Covering CC5)	-
Semester IV			
7.	U4R4MBCC7	Medical Microbiology	-
8.	U4R4MBCC8P	Major Practical – IV (Covering CC7)	-
Semester V			
9.	U5R4MBCC9	Food and Dairy Microbiology	-
10.	U5R4MBCC10	Environmental and Agriculture Microbiology	-
11.	U5R4MBCC11	Microbial Genetics and Molecular Biology	-
12.	U5R4MBCC12P	Major Practical - V (Covering CC9 & CC10)	-
Semester VI			
13.	U6R4MBCC13	Industrial Microbiology	-
14.	U6R4MBCC14P	Practical – VI (Covering CC11 & CC13)	-
15.	U6R4MBCC15PW	Project Work	-

23. Resolved to have the following **06 Allied Courses in the 1st to 4th Semesters** for UG

Sl. No.	Course Code	Course Name	Revised / Renamed / Newly Introduced
Semester I			
1.	U1R4MBAC1	Biochemistry	Newly Introduced
2.	U1R4MBAC2P	Allied Practical – I (Covering AC1)	Newly Introduced
Semester II			
3.	U2R4MBAC3	Biostatistics	Revised
4.	U2R4MBAC4P	Allied Practical – II (Covering AC3)	Revised
Semester III			
5.	U3R4MBAC5	Biotechnology	Newly Introduced
Semester IV			
6.	U4R4MBAC6	Bioinformatics	-

24. Resolved to have the following **03 Discipline Specific Elective Courses in the 5th & 6th Semesters** for UG.

Sl. No.	Course Code	Course Name	Revised / Renamed / Newly Introduced
Semester V			
1.	U5R4MBDSE1:1	Bioinstrumentation	-
	U5R4MBDSE1:2	Virology	-
Semester VI			
2.	U6R4MBDSE2:1	Microbial Biotechnology	-
	U6R4MBDSE2:2	Pharmaceutical Microbiology	Newly Introduced
3.	U6R4MBDSE3:1	Genetic Engineering	Newly Introduced
	U6R4MBDSE3:2	Biosafety and Bioethics	-

25. Resolved to have the following **03 Skill Enhancement Courses in the 3rd, 4th and 5th Semesters** for UG

Sl. No.	Course Code	Course Name	Revised / Renamed / Newly Introduced
Semester III			
1.	U3R4MBSEC1:1	Vermitechnology	-
	U3R4MBSEC1:2	Microbial Inoculants	-
Semester IV			
2.	U4R4MBSEC2:1	Medical Lab Technology	-
	U4R4MBSEC2:2	Vaccinology	-
Semester V			
3.	U5R4MBSEC3:1	Mushroom Technology	-
	U5R4MBSEC3:2	Good Laboratory Practices	-

26. Resolved to offer the following **Generic Elective Courses to other Departments** in the 1st & 2nd Semester.

Sl. No.	Course Code	Course Name	Revised / Renamed / Newly Introduced
Semester I			
1.	U1R4MBGEC1	Basics of Microbiology	Newly Introduced
Semester II			
2.	U2R4MBGEC2	Health and Hygiene	Newly Introduced

27. Resolved to have the following **12 Core Courses in the 4 Semesters of PG.**

Sl. No.	Course Code	Course Name	Revised / Renamed / Newly Introduced
Semester I			
1.	P1R4MBCC1	General Microbiology	Revised & Renamed
2.	P1R4MBCC2	Microbial Physiology	Revised
3.	P1R4MBCC3P	Practical I (Covering CC1 & CC2)	Revised
Semester II			
4.	P2R4MBCC4	Clinical Microbiology	Revised & Renamed
5.	P2R4MBCC5	Immunology & Immunotechnology	Revised & Renamed
6.	P2R4MBCC6P	Practical II (Covering CC4 & CC5)	Revised
Semester III			
7.	P3R4MBCC7	Bioprocess Technology	-
8.	P3R4MBCC8	Microbial Genetics and Molecular Biology	-
9.	P3R4MBCC9	Environment and Agricultural Microbiology	-
10.	P3R4MBCC10P	Practical III (Covering CC7, CC8 & CC9)	-
Semester IV			
11.	P4R4MBCC11	Recombinant DNA Technology	-
12.	P4R4MBCC12	Research Methodology	-
13.	P4R4MBCC13PW	Project Work	-

28. Resolved to have the following **03 Discipline Specific Elective Courses in the 1st and 2nd Semesters for PG**

Sl. No.	Course Code	Course Name	Revised / Renamed / Newly Introduced
Semester I			
1.	P1R4MBDSE1:1	Advanced Biochemistry	Revised
	P1R4MBDSE1:2	Microalgal Technology	Revised
2.	P1R4MBDSE2:1	Analytical Techniques in Biology	Revised & Renamed
	P1R4MBDSE2:2	Microbial Nanobiotechnology	Revised
Semester II			
3.	P2R4MBDSE3:1	Food and Dairy Microbiology	-
	P2R4MBDSE3:2	Biosafety, Bioethics & IPR	-

29. Resolved to have the following **03 Skill Enhancement Courses (listed)** in the **1st, 2nd** and **3rd** Semesters for PG

Sl. No.	Course Code	Course Name	Revised / Renamed / Newly Introduced
Semester I			
1.	P1R4MBSEC1:1	AI in Healthcare	Newly Introduced
	P1R4MBSEC1:2	AI in Drug Discovery and Development	Newly Introduced
Semester II			
2.	P2R4MBSEC2:1	Diagnostic Microbiology	Newly Introduced
	P2R4MBSEC2:2	Quality Control in Industries	Newly Introduced
Semester III			
3.	P3R4MBSEC3:1	Bio Business and Entrepreneurship	Newly Introduced

30. Resolved to offer an Allied Course titled **Fundamentals of Microbiology** for the students of **Department of Biochemistry** in Semester II.

31. Resolve to offer an **Generic Elective Course – Applied Microbiology** in the 3rd Semester