

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 Chemistry
Minutes of the Board of Studies Meeting

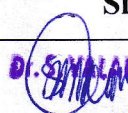
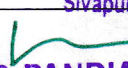
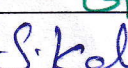
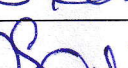
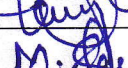
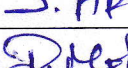
Meeting No: 10

Date: 15.04.2026

Time: 11.00 a.m.

The Meeting of the Board of Studies in Chemistry (U.G. and P.G.) for the **Eighth revision of the Curricula** to be implemented from **2026-2027**, was conducted at 11.00 a.m. on Wednesday, 15.04.2026.

Members Present

Sl. No	Name	Designation	Signature
1.	Dr. S. Valarselvan, Associate Professor & Head, Department of Chemistry	Chairman	 Dr. S. VALARSELVAN, M.Sc., M.Phil., Ph.D., FICS., Head, PG and Research Department of Chemistry, J.J. College of Arts and Science (Autonomous), Sivapuram, Pudukkottai - 622 422.
2.	Dr. P. Pandian Associate professor & Head PG & Research Department of Chemistry Thanthai Periyar Government Arts and Science College, (Autonomous) Tiruchirappalli – 620 023.	University Nominee	 Dr. P. PANDIAN, M.Sc., M.Phil., Ph.D. Associate Professor & Head PG & Research Department of Chemistry Thanthai Periyar Government Arts and Science College (Autonomous), Trichy - 620 023.
3	Dr. A. N. Senthilkumar Associate Professor of Chemistry Alagappa Govt. Arts College Karaikudi-630003.	Subject Expert	 15/4/2026.
4.	Dr. K. K Satheesh Kumar Professor, Department of Chemistry The Gandhigram Rural Institute-DTBU Gandhigram-624302.	Subject Expert	 15/4/26 Professor and Head Department of Chemistry GRI
5.	Ms. S. Kalaivani Assistant Professor	Faculty Member	 15/4/26.
6.	Ms. K. R. Ulagu Assistant Professor	Faculty Member	 15/4/26
7.	Mr. M. Karthick Raja Assistant Professor	Faculty Member	 15/4/26
8	Mr. N. Malayappan Santhosh, M.B.A. AVM Batteries G-2, SIDCO Industrial Estate, Machuvadi Pudukkottai-622004.	Representative from Industry	 15/4/26 J. AP
9.	Mr. R. Mohamed Riyaz 198/2 C1, Selva Nagar Pudukkottai- 622 001.	Alumni	 15/04/26

The Chairman, **Dr. S. Valarselvan** chaired the meeting and welcomed all the members to the Tenth BOS Meeting. After the brief introduction the following resolutions were discussed and passed.

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 and M.Sc Chemistry 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	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)
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).

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

Syllabus resolutions of BOS meeting

1. Resolved to have the following 15 Core Courses for B.Sc. Chemistry-Semester wise

Semester –I

1. General Chemistry-I (U1R4CHCC1) (The unit contents are changed)
2. Quantitative Inorganic Estimation (Titrimetry) and Inorganic Preparation Practical (U1R4CHCC2P) (Title and unit contents are retained)

Semester –II

3. General Chemistry-II (U2R4CHCC3) (The unit contents are changed)
4. Qualitative Organic Analysis and Preparation of Organic Compounds (U2R3CHCC4P) (Title and unit contents are retained)

Semester-III

5. General Chemistry -III (U3R4CHCC5)
6. Qualitative Inorganic Analysis Practical(U3R4CHCC6P)

Semester-IV

7. General Chemistry -IV (U4R4CHCC7)
8. Physical Chemistry Practical-I (U4R4CHCC8P)

Semester-V

9. Organic Chemistry-I (U5R4CHCC9)
10. Inorganic Chemistry-I (U5R4CHCC10)
11. Physical Chemistry (U5R4CHCC11)
12. Physical Chemistry Practical-II (U5R4CHCC12P)

Semester-VI

13. Organic Chemistry -II (U6R4CHCC13)
14. Inorganic Chemistry -II (U6R4CHCC14)
15. Project Work (U6R4CHCC15PW)

2. Resolved to have the following 6 allied Courses for UG Chemistry

Allied Mathematics

Semester-I and II

- 1) Allied Mathematics -I (U1R4CHAC1)
- 2) Allied Mathematics -II (U2R4CHAC3)

Allied Physics

Semester-I, II, III and IV

- 3) Allied Physics -I (U1R4CHAC2)
- 4) Allied Physics Practical-I (U2R4CHAC4P)
- 5) Allied Physics -II (U3R4CHAC5)
- 6) Allied Physics Practical-II (U4R4CHAC6P)

3. Resolved to offer the following Discipline Specific Elective (DSE) Courses during Semester –V and VI

1. Polymer Science (U5R4CHDSE 1:1)
2. Chemistry of Everyday life (U5R4CHDSE 1:2)
3. Nanochemistry and nanotechnology (U6R4CHDSE 2:1)
4. Textile Chemistry (U6R4CHDSE 2:2)
5. Pharmaceutical Chemistry (U6R4CHDSE 3:1)
6. Sugar Chemistry and Sugar Technology (U6R4CHDSE 3:2)

4. Resolved to have the following Skill Enhancement Course (SEC) for UG Chemistry during Semester –III, IV and V

1. Instrumental methods of Chemical analysis (U3R4CHSEC 1:1)
2. Entrepreneurial Skills in Chemistry (U3R4CHSEC 1:2)
3. Industrial Chemistry and applications (U4R4CHSEC 2:1)
4. Laboratory methods in water analysis (U4R4CHSEC 2:2)
5. Green Chemistry (U5R4CHSEC 3:1)
6. Dairy Chemistry (U5R4CHSEC 3:2)

5. Resolved to continue Internship programme in the 5th Semester for the Under Graduate students (Carried in 4th Semester vacation)

6. Resolved to have 2 Generic Elective Courses (IDC) opted from other departments for UG Chemistry during Semester –I and II

7. Resolved to have the following 13 Core Courses for PG Chemistry

Semester-I

- 1) Organic Chemistry-I-I (P1R4CHCC1) (The title and unit contents are changed)
- 2) Inorganic Chemistry-I (P1R4CHCC2) (The title and unit contents are changed)
- 3) Inorganic Chemistry Practical (P1R4CHCC3P) (In the previous syllabus, this course offered in II semester. (The title and unit contents are retained)

Semester-II

- 4) Physical Chemistry-I (P2R4CHCC4) (The unit contents are changed)
- 5) Organic chemistry-II I (P2R4CHCC5) (The title and unit contents are changed)
- 6) Organic Chemistry Practical (P2R4CHCC6P) (In the previous syllabus, this course offered in I semester. (The title and unit contents are retained)

Semester -III

- 7) Physical Chemistry – II (P3R4CHCC7)
- 8) Inorganic Chemistry-II (P3R3CHCC8)
- 9) Structural analysis of Inorganic compounds
- 10) Physical Chemistry Practical (P3R3CHCC10P).

Semester-IV

- 11) Green Chemistry (P4R4CHCC11)
- 12) Analytical Chemistry (P4R4CHCC12)
- 13) Project work (P4R4CHCC13PW)

8. Resolved to retain Internship for PG Programme in 3rd Semester (Carried out in II Semester vacation)

9. Resolved to have the following Discipline Specific Elective (DSE) Courses for PG Programme during semester I and II.

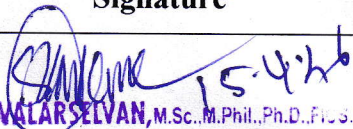
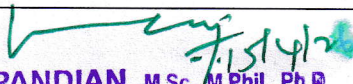
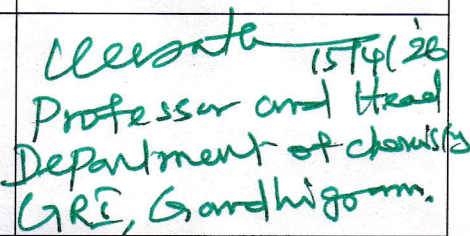
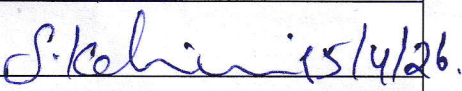
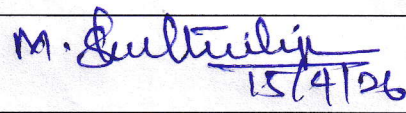
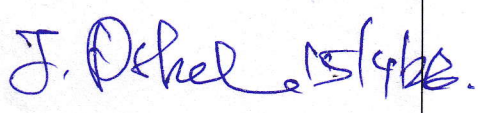
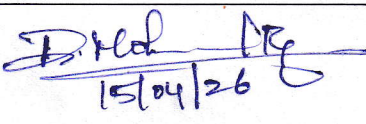
- 1) Fundamentals of molecular spectroscopy (P1R4CHDSE1:1) (Title and contents are changed)
- 2) Drug design and discovery (P1R4CHDSE 1:2) (Newly introduced)
- 3) Bioorganicchemistry (P1R4CHDSE 2:1) (Newly introduced)
- 4) Supramolecular chemistry (P1R4CHDSE 2:2) (Newly introduced)
- 5) Physical methods in chemistry (P2R4CHDSE 3:1) (Newly introduced)
- 6) Natural Products (P2R4CHDSE 3:2) (Newly introduced)

10. Resolved to have the following Skill Enhancement Courses (SEC) for PG Programme during semester I, II and III.

- 1) Food chemistry and adulteration (P1R4CHSEC 1:1) (Newly introduced)
- 2) Quality control and environmental chemistry (P1R4CHSEC 1:2) (Newly introduced)
- 3) Industrial chemistry (P2R4CHSEC 2:1) (The title and contents are retained)
- 4) Water treatment and analysis (P2R4CHSEC 2:2) (Newly introduced)
- 5) Entrepreneurship (P3R4CHSEC3)

11. Resolved to have 1 Generic Elective Course (IDC) opted from other departments for PG Chemistry during Semester III.

12. It is hereby resolved that a meeting of the Board of Studies shall be convened, if required, in the coming days to incorporate necessary modifications or updates in the curriculum, in accordance with communications received from the Parent University and TANSCH.

Sl. No	Name	Signature
1.	Dr. S. Valarselvan, Associate Professor & Head, Department of Chemistry JJ College of arts and science, Pudukkottai -622422.	 Dr. S. VALARSELVAN, M.Sc., M.Phil., Ph.D., F.I.C.S.. Head, PG and Research Department of Chemistry, JJ College of Arts and Science (Autonomous), Sivapuram, Pudukkottai - 622 422.
2.	Dr. P. Pandian Associate professor & Head, PG & Research Department of Chemistry, Thanthai Periyar Government Arts and Science College,(Autonomous), Tiruchirappalli – 620 023.	 Dr. P. PANDIAN, M.Sc., M.Phil., Ph.D Associate Professor & Head PG & Research Department of Chemistry Thanthai Periyar Government Arts and Science College (Autonomous) Trichy - 620 023.
3	Dr. A. N. Senthilkumar, Associate Professor of Chemistry, Alagappa Govt. Arts College, Karaikudi-630003.	 15/4/2026.
4.	Dr. K. K Satheesh Kumar, Professor, Department of Chemistry, The Gandhigram Rural Institute-DTBU Gandhigram-624302.	 15/4/26 Professor and Head Department of Chemistry GRE, Gandhigram.
5.	Ms. S. Kalaivani Assistant Professor	 15/4/26.
6.	Ms. K. R. Ulagu Assistant Professor	
7.	Mr. M. Karthick Raja Assistant Professor	 15/4/26
8.	Mr. N. Malayappan Santhosh, M.B.A. AVM Batteries G-2, SIDCO Industrial Estate, Machuvadi Pudukkottai-622004.	 15/4/26.
9.	Mr. R. Mohamed Riyaz, 198/2 C1, Selva Nagar, Pudukkottai- 622 001	 15/04/26