

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

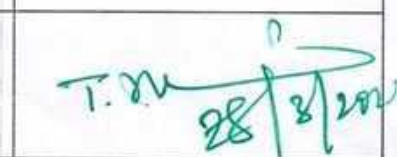
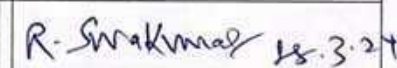
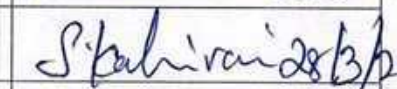
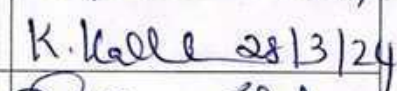
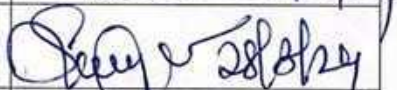
Meeting No: 09

Date: 28.03.2024

Time: 10.30 a.m.

The Meeting of the Board of Studies in Chemistry (U.G. and P.G.) for the **Seventh revision of the Curricula** to be implemented from **2024-2025**, was conducted at 10.30 a.m. on Thursday, 28.03.2024

Members Present

S.No.	Name	Designation	Signature
1.	Dr.C.Muthukumar Assistant Professor and Head Department of Chemistry	Chairman	 28/3/24
2.	Dr.R.Ramesh Professor and Chair, School of Chemistry Bharathidasan University, Tiruchirappalli – 620 024	University Nominee	 28/03
3.	Dr.T.Stalin Associate Professor of Industrial Chemistry Alagappa University, Karaikudi – 630 003	Subject Expert	 28/3/2024
4.	Dr.N.Thinakaran Associate Professor of Chemistry Government Arts and Science College, Reserve line, Sivakasi – 626 124	Subject Expert	Absent
5.	Dr.R.Sivakumar Assistant Professor	Faculty Member	 28.3.24
6.	Ms.S.Kalaivani Assistant Professor	Faculty Member	 28/3/24
7.	Ms.K.Kalaichelvi Assistant Professor	Faculty Member	 28/3/24
8.	Ms.K.R.Ulagu Assistant Professor	Faculty Member	 28/3/24
9.	Dr.P.Jagajeevanram Assistant Professor	Faculty Member	 28/3/24
10.	Mr.A.Salai Vadamalai Proprietor, Universe Food Products, 256 D, AV Road, Annavasal, Pudukkottai – 622 101	Representative from Industry	Absent
11.	Ms.B.Karthigadevi No.11, New Annai Nagar, Malaiyeedu, Attangudi Post, Pudukkottai – 622 003	Alumni	 28/03/24

UG – 141 credits ; 4300 marks

PG – 90 Credits ; 2100 marks

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

1. In his notification No: 1616, dated 10.08.2021, the Chief Secretary, Department of Higher Education, Government of Tamil Nadu, has given the Autonomous Colleges, the freedom to retain / reframe their syllabi, Course Structure etc., in keeping with their perceptions on Institutional / local needs.
2. The College Council at its meeting held on 16.09.2023 resolved that our Institution will gratefully accept the academic freedom and empower the Boards of Studies either to retain or to reframe their Curriculum for various Programmes under CBCS and UGC- LOCF.
3. However, the Course Structure for the U.G.& P.G. Programmes at Institutional level will have to follow a uniform pattern with minor variations depending on the discipline specific needs.
4. It is Resolved to modify and follow a total of 43 courses, 4300 marks and 141 credits for the U.G. Programmes and 21 courses, 2100 marks and 90 credits for the P.G. Programmes.

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	14	65	1400
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	Gender Studies	1	01	100
13.		Extension Activity	-	01	-
Total			43	141	4300

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

5. The Revised Syllabus has been implemented from the Academic Year 2023 – 2024 onwards. In the previous Boards of Studies meeting, the Syllabus for first two Semesters have been passed. Now in the light of the Government Communication, cited in Point No. 1, the Chairman of the Boards of Studies have introduced some changes in the Syllabus for Semester I and Semester II. Such modifications are approved and passed by this Board.
6. The Course Structure mentioned in Point No: 4 for U.G.& P.G. Programmes have already been approved and passed by the Board of studies on 02.05.2023
7. In the present revision and modification, the General instructions on Curriculum Design, Course Structure, Uniformity of standards etc., given by the UGC - LOCF, AICTE, NAAC, TANSCH and the Parent University have been scrupulously followed.
8. Following the suggestion given by the Honorable members of the Academic Council in its last meeting, a course on Gender Studies has been included.
9. Resolved to include various online courses like SWAYAM - MOOCs with extra credits. The credits thus earned will be reflected in the Cumulative Mark Statement of the students.
10. Resolved to continue offering Value Added Courses.

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

Semester -I

1. General Chemistry-I (U1R3CHCC1) (The unit contents are changed)
2. Quantitative Inorganic Estimation (Titrimetry) and Inorganic Preparation Practical(U1R3CHCC2P) (Title and unit contents are changed)

Semester -II

3. General Chemistry-II (U2R3CHCC3) (The unit contents are changed)
4. Qualitative Organic Analysis and Preparation of Organic Compounds (U2R3CHCC4P) (Title and unit contents are changed, shifted from 6th semester to 2nd semester)

Semester-III

1. General Chemistry -III (U3R3CHCC5) (The unit contents are changed)
2. Qualitative Inorganic Analysis Practical(U3R3CHCC6P) (The unit contents are changed and shifted from 4th semester to 3rd semester)

Semester-IV

3. General Chemistry -IV (U4R3CHCC7) (The unit contents are changed)
4. Physical Chemistry Practical-I (U4R3CHCC8P) (Previously there was only one practical in semester-V as Physical Chemistry Practical. But in the revised syllabus, the practical has been divided into two, and the two practicals are being offered in the 4th and 5th semester as Physical Chemistry practical-I and Physical Chemistry practical-II respectively)

Semester-V

5. Organic Chemistry-I (U5R3CHCC9) (The unit contents are changed)
6. Inorganic Chemistry-I (U5R3CHCC10) (The unit contents are changed)
7. Physical Chemistry (U5R3CHCC11) (Previously there was Physical Chemistry-I and II in 5th and 6th semester, but now the contents have been changed and nameds as Physical Chemistry)
8. Physical Chemistry Practical-II (U5R3CHCC12P)

Semester-VI

9. Organic Chemistry -II (U6R3CHCC13) (The unit contents are changed)
10. Inorganic Chemistry -II (U6R3CHCC14) (The unit contents are changed)
11. Project Work (U6R3CHCC15PW) (Newly introduced)

12. Resolved to have the following Discipline Specific Elective Course for UG Chemistry

Semester-I

- 1) Mathematics -I (U1R3CHDSE1)(The Syllabi designed and passed in Bos in Mathematics)

Semester-II

- 2) Mathematics -II (U2R3CHDSE2) (The Syllabi designed and passed in Bos in Mathematics)

Semester-III

- 3) Allied Physics (U3R3CHDSE3) (The Syllabi designed and passed in Bos in Physics)

Semester-IV

- 4) Allied Physics Practical-I (U4R3CHDSE4P) (The Syllabi designed and passed in Bos in Physics)

Semester-V

- | | |
|---|---------------------|
| 5:1) Polymer Science (U5R3CHDSE 5:1) | (Retained as it is) |
| 5:2) Nano Science (U5R3CHDSE 5:2) | (Newly introduced) |
| 6:1) Pharmaceutical Chemistry (U5R3CHDSE 6:1) | (Newly introduced) |
| 6:2) Health Chemistry (U5R3CHDSE 6:2) | (Retained as it is) |

Semester-VI

- | | |
|--|---------------------|
| 7:1) Agricultural Chemistry (U6R3CHDSE 7:1) | (Retained as it is) |
| 7:2) Biochemistry (U6R3CHDSE 7:2) | (Newly introduced) |
| 8:1) Chemistry of Everyday life (U6R3CHDSE 8:1) | (Newly introduced) |
| 8:2) Soil, Dairy and Leather Chemistry (U6R3CHDSE 8:2) | (Retained as it is) |

13. Resolved to offer the following Discipline Specific Elective Courses to other Departments (Departments of Biochemistry, Physics, Mathematics and Botany)

For Department of Biochemistry

- 1) Chemistry-I (U1R3BCDSE1) (The title and unit contents are changed)
- 2) Chemistry -II (U2R3BCDSE2) (The title and unit contents are changed)

For Departments of Physics / Mathematics / Botany

- 3) Allied Chemistry-I (U3R3PHDSE3)/(U3R3MADSE3)/(U3R3BODSE3)(The unit contents are changed)
- 4) Allied Chemistry-II Practical (U4R3PHDSE4P) / (U4R3MADSE4P) / (U4R3BODSE4P) (Retained as it is)

14. Resolved to have the following Skill Enhancement Course for UG Chemistry (Non Major Elective)

Semester –I (Offered to other Department)

- 1) Food Chemistry (Newly introduced)
- 2) Role of Chemistry in Daily life (Newly introduced)

Semester-II (Offered to other Department)

- 3) Dairy Chemistry (Newly introduced)

Semester –II to VI

- 1) Cosmetic and Personal Grooming (U2R3CHSEC3:1) (Newly introduced)
- 2) Entrepreneurial Skills in Chemistry (U2R3CHSEC3:2) (Newly introduced)
- 3) Nutrition and Food Science (U3R3CHSEC4:1) (Newly introduced)
- 4) Forensic Science (U3R3CHSEC4:2) (Newly introduced)
- 5) Pesticide Chemistry (U4R3CHSEC5:1) (Newly introduced)
- 6) Instrumental Methods of Chemical Analysis (U4R3CHSEC5:2) (Newly introduced)
- 7) Industrial Chemistry (U4R3CHSEC6:1) (Newly introduced)
- 8) Fundamentals of Spectroscopy (U4R3CHSEC6:2) (Newly introduced)
- 9) Green Chemistry (U6R3CHSEC7:1) (Newly introduced)
- 10) Material Chemistry and Nano technology (U6R3CHSEC7:2) (Newly introduced)

15. It is resolved to newly introduce the “Foundation Course” in the first semester – Bridge Chemistry

16. Resolved to introduce Internship in the 5th Semester for the Under Graduate students (Carried in 4th Semester vocation)

17. It is resolved to newly introduce “Project work” for the Under Graduate students in their 6th semester.

18. Resolved to have the following 13 Core Courses for PG Semester wise

Semester-I

- 1) Organic Reaction Mechanism -I(P1R3CHCC1) (The unit contents are changed)
- 2) Structure and Bonding in Inorganic compounds (P1R3CHCC2) (The unit contents are changed)
- 3) Organic Chemistry Practical (P1R3CHCC3P) (In the previous syllabus, there were two practicals as papers I and II offered in the 1st and 2nd semesters respectively. But now the two practicals have been fused into one and the papers is being offered in 1st semester)

Semester-II

- 4) Organic Reaction Mechanism-II(P2R3CHCC4) (The unit contents are changed)
- 5) Physical Chemistry-I(P2R3CHCC5) (The unit contents are changed)
- 6) Inorganic Chemistry Practical (P2R3CHCC6P) (In the previous syllabus, there were two practicals in Inorganic Chemistry as papers I and II offered in the 1st and 2nd semesters respectively. But now the two practicals have been fused into one and the papers is being offered in 2nd semester)

Semester -III

- 7) Organic Synthesis and Photochemistry (P3R3CHCC7) (The title and contents are changed)
- 8) Coordination Chemistry -I (P3R3CHCC8) (The unit contents are changed)
- 9) Physical Chemistry-II (P3R3CHCC9) (The title and unit contents are changed)
- 10) Physical Chemistry Practical (P3R3CHCC10P) (In the previous curriculum, the Physical Chemistry practicals I and II, that were being offered in 3rd and 4th semester, but now merged into a single paper to be taken in 3rd semester)

Semester-IV

- 11) Coordination Chemistry-II (P4R3CHCC11) (The unit contents are changed)
- 12) Analytical Chemistry (P4R3CHCC12) (Newly introduced)
- 13) Project work (P4R3CHCC13PW) (This Core Course of previous curriculum is retained as such)

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

20. Resolved to have the following Discipline Specific Elective Courses and Skill Enhancement Courses for PG Programme

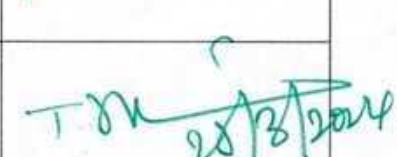
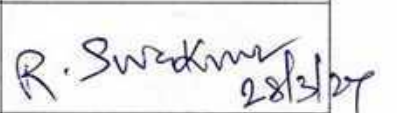
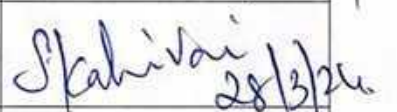
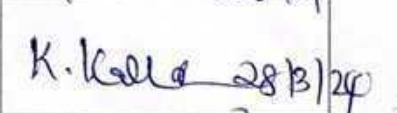
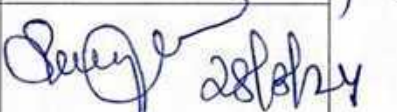
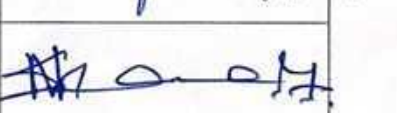
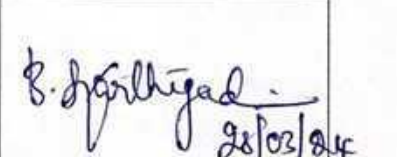
Discipline Specific Elective Course

- 1) Pharmaceutical Chemistry (Newly introduced)
Nanomaterial and Nanotechnology (Newly introduced)
- 2) Molecular Spectroscopy (The title and unit contents are changed)
Electro Chemistry (Newly introduced)
- 3) Medicinal Chemistry (retained as it is)
Green Chemistry (retained as it is)
- 4) Bioinorganic Chemistry (retained as it is)
Material Science (Newly introduced)
- 5) Chemistry of Natural Products (The title is changed)
Pharmacognosy and Phytochemistry (Newly introduced)

Skill Enhancement Courses

- 1) **Preparation of Consumer Products** (Newly introduced)
- 2) **Chemistry in Everyday life** (Newly introduced)
- 3) **Polymer Chemistry** (Newly introduced)
- 4) **Biomolecules and Heterocyclic Compounds**(Newly introduced)

17/27

S.No.	Name	Designation	Signature
1.	Dr.C.Muthukumar Assistant Professor and Head Department of Chemistry	Chairman	 28/3/24
2.	Dr.R.Ramesh Professor and Chair, School of Chemistry Bharathidasan University, Tiruchirappalli – 620 024	University Nominee	 28/3/24
3.	Dr.T.Stalin Associate Professor of Industrial Chemistry Alagappa University, Karaikudi – 630 003	Subject Expert	 28/3/2024.
4.	Dr.N.Thinakaran Associate Professor of Chemistry Government Arts and Science College, Reserve line, Sivakasi – 626 124	Subject Expert	Absent
5.	Dr.R.Sivakumar Assistant Professor	Faculty Member	 28/3/24
6.	Ms.S.Kalaivani Assistant Professor	Faculty Member	 28/3/24
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10.	Mr.A.SalaiVadamalai Proprietor, Universe Food Products, 256 D, AV Road, Annavasal, Pudukkottai – 622 101	Representative from Industry	Absent
11.	Ms.B.Karthigadevi No.11, New Annai Nagar, Malaiyeedu, Attangudi Post, Pudukkottai – 622 003	Alumni	 28/03/24

19/27

J.J COLLEGE OF ARTS AND SCIENCE (Autonomous)**DEPARTMENT OF CHEMISTRY****B.Sc. CHEMISTRY**

Proposed Course Structure based on UGC-LOCF and TANSCH

(Choice Based Credit System)

(Applicable for the candidates admitted from academic year 2023-2024 onwards)

SEMESTER-I

Part	Course Code	Courses Title	Hrs/ Week	Credit	Exam Hrs	Marks		Total Marks
						Int	Ext	
Part-I	U1R3TL1	Language Course - I	6	3	3	25	75	100
Part-II	U1R3EL1	English Language Course - I	6	3	3	25	75	100
Part-III	U1R3CHCC1	General Chemistry-I	5	5	3	25	75	100
	U1R3CHCC2P	Quantitative Inorganic Estimation (Titrimetry) and Inorganic Preparation Practical	5	5	3	40	60	100
	U1R3CHDSE1	Mathematics-I	4	3	3	25	75	100
Part-IV	U1R3CHSEC1 (NME-I)	To be opted from other Department (Office Automation)	2	2	3	25	75	100
	U1R3CHFC	Foundation Course (Bridge Chemistry)	2	2	3	25	75	100
			30	23				700

SEMESTER-II

Part	Course Code	Courses Title	Hrs/ Week	Credit	Exam Hrs	Marks		Total Marks
						Int	Ext	
Part-I	U2R3TL2	Language Course-II	6	3	3	25	75	100
Part-II	U2R3EL2	English Language Course - II	6	3	3	25	75	100
Part-III	U2R3CHCC3	General Chemistry-II	5	5	3	25	75	100
	U2R3CHCC4P	Qualitative Organic Analysis and Preparation of Organic compounds Practical	5	5	3	40	60	100
	U2R3CHDSE2	Mathematics-II	4	3	3	25	75	100
Part-IV	U2R3CHSEC2 (NME-2)	To be opted from other department (Advanced Excel)	2	2	3	25	75	100
	U2R3CHSEC3:1/3:2	Cosmetic and Personal Grooming / Entrepreneurial Skills in Chemistry	2	2	3	25	75	100
			30	23				700

E. M. S. S.
28/3/24

Ramesh
28/03
Dr. R. RAMESH
Professor and Chair
Coordinator - COMC
School of Chemistry
Bharathidasan University
Trichirappalli - 620 024.

T. S.
Dr. T. STALIN, M.Sc., M.
Associate Profes.
Dept. of Industrial Che
Alagappa Univers
Karaikudi - 630 003, T

SEMESTER-III								
Part	Course Code	Courses Title	Hrs/ Week	Credit	Exam Hrs	Marks		Total Marks
						Int	Ext	
Part-I	U3R3TL3	Language Course-III	6	3	3	25	75	100
Part-II	U3R3EL3	English Language Course-III	6	3	3	25	75	100
Part-III	U3R3CHCC5	General Chemistry-III	5	5	3	25	75	100
	U3R3CHCC6P	Qualitative Inorganic Analysis Practical	5	5	3	40	60	100
	U3R3CHDSE3	Allied Physics	4	3	3	25	75	100
Part-IV	U3R3CHSEC4:1/ 4:2	Nutrition and Food Science/Forensic Science	2	2	3	25	75	100
	U3R3VE	Value Education	2	2	3	25	75	100
			30	23				700

SEMESTER-IV								
Part	Course Code	Courses Title	Hrs/ Week	Credit	Exam Hrs	Marks		Total Marks
						Int	Ext	
Part-I	U4R3TL4	Language Course-IV	5	3	3	25	75	100
Part-II	U4R3EL4	English Language Course - IV	5	3	3	25	75	100
Part-III	U4R3CHCC7	General Chemistry-IV	5	5	3	25	75	100
	U4R3CHCC8P	Physical Chemistry Practical-1	5	5	3	40	60	100
	U4R3CHDSE4P	Allied Physics Practical - I	4	3	3	40	60	100
Part-IV	U4R3CHSEC5:1/5: 2	Pesticide Chemistry / Instrumental methods of Chemical analysis	2	2	3	25	75	100
	U4R3CHSEC 6:1/ 6:2	Industrial Chemistry / Fundamentals of Spectroscopy	2	2	3	25	75	100
	U4R3ES	Environmental Studies	2	2	3	25	75	100
			30	25				800

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SEMESTER-V

Part	Course Code	Courses Title	Hrs/ Week	Credit	Exam Hrs	Marks		Total Marks
						Int	Ext	
Part-III	U5R3CHCC9	Organic Chemistry-I	5	5	3	25	75	100
	U5R3CHCC10	Inorganic Chemistry-I	5	4	3	25	75	100
	U5R3CHCC11	Physical Chemistry	5	4	3	25	75	100
	U5R3CHCC12P	Physical Chemistry Practical -II	5	4	3	40	60	100
	U5R3CHDSE5:1/5 :2	Polymer Science / Nano Science	5	3	3	25	75	100
	U5R3CHDSE6:1/6 :2	Pharmaceutical Chemistry / Health Chemistry	5	3	3	25	75	100
Part-IV	U5R3CHINT	Internship	-	2	-	-	-	100
			30	25	-	-	-	700

SEMESTER-VI

Part	Course Code	Courses Title	Hrs/ Week	Credit	Exam Hrs	Marks		Total Marks
						Int	Ext	
Part-III	U6R3CHCC13	Organic Chemistry-II	5	4	3	25	75	100
	U6R3CHCC14	Inorganic Chemistry-II	6	4	3	25	75	100
	U6R3CHCC15PW	Project Work	8	4	-	-	-	100
	U6R3CHDSE7:1/7:2	Agricultural Chemistry / Biochemistry	4	3	3	25	75	100
	U6R3CHDSE 8:1/8:2	Chemistry of Everyday life / Soil, Dairy and Leather Chemistry	4	3	3	25	75	100
Part-IV	U6R3CHSEC 7:1/ 7:2	Green Chemistry / Material Chemistry and Nano technology	2	2	3	25	75	100
Part-V	U6R3GS	Gender Studies	1	1	3	25	75	100
		Extension Activities	-	1	-	-	-	-
			30	22				700
		Total		141				4300

E. V. S. S. S.
28/3/24

Ramesh
28/03
Dr. R. RAMESH
Professor and Chair
Coordinator - COMC
School of Chemistry
Bharathidasan University
Tiruchirappalli - 620 024.

T. Stalin
28/3/24
Dr. T. STALIN, M.Sc.
Associate Professor
Dept. of Industrial Chemistry
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25/27

J.J COLLEGE OF ARTS AND SCIENCE (Autonomous)**DEPARTMENT OF CHEMISTRY****M.Sc. CHEMISTRY**

Proposed Course Structure based on UGC-LOCF and TANSCH

(Choice Based Credit System)

(Applicable for the candidates admitted from academic year 2023-2024 onwards)

SEMESTER - I

Course Code	Course Title	Hrs./Week	Credit	Exam Hrs.	Marks		Total
					Int.	Ext.	
P1R3CHCC1	Organic Reaction Mechanism-I	7	5	3	25	75	100
P1R3CHCC2	Structure and Bonding in Inorganic Compounds	7	5	3	25	75	100
P1R3CHCC3P	Organic Chemistry Practical	6	4	6	40	60	100
P1R3CHDSE1:1/1:2	Pharmaceutical Chemistry/Nanomaterials and Nanotechnology	5	3	3	25	75	100
P1R3CHDSE2:1/2:2	Molecular Spectroscopy / Electrochemistry	5	3	3	25	75	100
Total		30	20				500

SEMESTER - II

P2R3CHCC4	Organic Reaction Mechanism-II	6	5	3	25	75	100
P2R3CHCC5	Physical Chemistry-I	6	5	3	25	75	100
P2R3CHCC6P	Inorganic Chemistry Practical	6	4	6	40	60	100
P2R3CHDSE3:1/3:2	Medicinal Chemistry/Green Chemistry	4	3	3	25	75	100
P2R3CHDSE4:1/4:2	Bioinorganic Chemistry/Material Science	4	3	3	25	75	100
P2R3CHSEC 1:1/1:2	Preparation of Consumer products / Chemistry in everyday life	4	2	3	25	75	100
Total		30	22				600

[Signature]
25/3/24

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Dr. R. RAMESH
Professor and Chair
Coordinator - COMC
School of Chemistry
Bharathidasan University
Tiruchirappalli - 620 024.

[Signature]
Dr. T. STALIN, M.Sc., M.Phil., Ph.D.
Associate Professor
Dept. of Industrial Chemistry
Alagappa University
Karaikudi - 630 003, Tamil Nadu

27/27

SEMESTER - III

P3R3CHCC7	Organic Synthesis and Photochemistry	5	5	3	25	75	100
P3R3CHCC8	Coordination Chemistry-I	5	5	3	25	75	100
P3R3CHCC9	Physical Chemistry - II	5	5	3	25	75	100
P3R3CHCC10P	Physical Chemistry Practical	5	5	6	40	60	100
P3R3CHDSE 5:1/5:2	Chemistry of natural Products / Pharmacognosy and Phytochemistry	5	3	3	25	75	100
P3R3CHSEC 2:1/ 2:2	Polymer Chemistry / Biomolecules and Heterocyclic compounds	5	2	3	25	75	100
P3R3CHINT	Internship	-	3	-	-	-	100
Total		30	28	-	-	-	700

SEMESTER - IV

P4R3CHCC11	Coordination Chemistry-II	6	5	3	25	75	100
P4R3CHCC12	Analytical Chemistry	6	5	3	25	75	100
P4R3CHCC13PW	Project Work	18	10	-	-	-	100
Total		30	20				300
Grand Total			90				2100

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28/3/24

[Signature] 28/03
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