

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

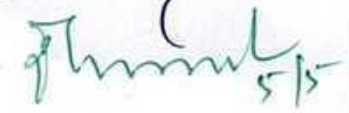
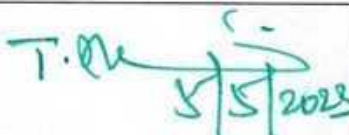
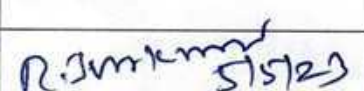
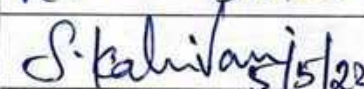
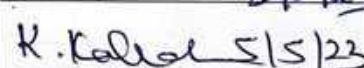
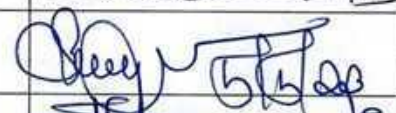
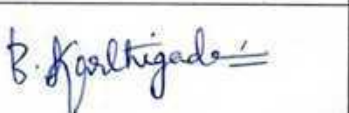
Meeting No: 07

Date: 05.05.2023

Time: 10.30 a.m.

The Meeting of the Board of Studies in Chemistry (U.G. and P.G.) for the **Sixth revision of the Curricula** to be implemented from **2023-2024**, was conducted at 10.30 a.m. on Friday, 05.05.2023.

Members Present

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

The Chairman, Dr.C.Muthukumar chaired the meeting and welcomed all the members to the Seventh BoS Meeting. After the brief introduction, the agenda items listed were taken up for discussion and the following resolutions were passed.

The following resolutions were proposed, discussed, finalized and passed in the Board of studies meeting of Chemistry for the **B.Sc. and M.Sc. Chemistry Programmes** which is to be implemented from the ensuing Academic year 2023-2024 onwards, pertaining to the approval from the Academic Council of the college.

1. As per the instructions from **TANSCH**E and the **Parent University**, it is resolved to include **75 % of mandatory inclusion** content from model syllabus and **25 % of Preferential inclusion** by our Department to preserve equivalence in U.G. and P.G. Degree Programmes to enable student Mobility to be implemented from the academic year 2023 – 2024 onwards is framed and restructured following the guidelines laid down by the UGC - LOCF and Tamil Nadu State Council for Higher Education (TANSCH)E and the Parent University.
2. It is resolved to evaluate the Syllabus followed during the Academic Year 2022-2023 based on the first Semester Results.
3. It is also resolved to analyze the previous Curriculum based on the feedback received from the Teachers, Employers, Students and the Alumni.
4. It is resolved to convene a Board of Studies meeting in the coming days (if the need arises) to incorporate the Modifications / Updations in the Curriculum based on the communication from the Parent University / TANSCH)E.
5. It is resolved to have the following 16 core courses for UG semester-wise

Semester –I

1. General Chemistry-I (U1R3CHCC1) (It the Core Course of previous curriculum but the unit contents are changed)
2. Quantitative Inorganic Estimation and Inorganic Preparation (U1R3CHCC2P) (It is the Core Course of previous curriculum but the unit contents are changed)

Semester –II

3. General Chemistry-II (U2R3CHCC3) (The Core Course of previous curriculum but the unit contents are changed)
4. Qualitative Organic Analysis and Preparation of Organic Compounds (U2R3CHCC4P) (The Core Course of previous curriculum but the unit contents are changed)

Semester-III

5. General Chemistry -III (U3R3CHCC5) (The Core Course of previous curriculum as it is, but the unit contents are changed)
6. Qualitative Inorganic Analysis (U3R3CHCC6P) (The Core Course of previous curriculum retained as it is)

Semester-IV

7. General Chemistry -IV (U4R3CHCC7) (The Core Course of previous curriculum retained as it is, but unit contents are changed)
8. Physical Chemistry Practical-I (U4R3CHCC8P) (The Core Course of previous curriculum retained as it is, but unit contents are changed)

Semester-V

9. Organic Chemistry-I (U5R3CHCC9) (The Core Course of previous curriculum but the unit contents are changed)
10. Inorganic Chemistry-I (U5R2CHCC10) (The Core Course of previous curriculum but the unit contents are changed)
11. Physical Chemistry-I (U5R3CHCC11) (The Core Course of Previous curriculum, but unit contents are changed)
12. Project with Viva Voce (U5R3CHCC12) (Newly introduced)

Semester-VI

13. Organic Chemistry -II (U6R3CHCC13) (The Core Course of previous curriculum but unit contents are changed)
14. Inorganic Chemistry -II (U6R3CHCC14) (The Core Course of previous curriculum but unit contents are changed)
15. Physical Chemistry-II (U6R3CHCC15) (The Core Course of Previous curriculum, but unit contents are changed)
16. Physical Chemistry Practical-II (U6R3CHCC16P) (The Core Course of previous curriculum but unit contents are changed)

II. Resolved to have the following 6 Allied Course for B.Sc. Chemistry

First Allied Course in First two semesters (2 Courses), Syllabi designed and passed in BOS in Mathematics

- 1) Allied Mathematics -I (U1R3MAAC1) (The Course of previous curriculum but unit contents are changed)
- 2) Allied Mathematics -II (U2R3MAAC2) (The course of previous curriculum but unit contents are changed)

Second Allied Course in III and IV semesters (4 Courses), Syllabi designed and passed in BOS in Physics

- 1) Allied Physics -I (U3R3PHAC3) (It is the Allied Course of previous curriculum but unit contents are changed)
- 2) Allied Physics Practical-I (U3R3PHAC4P) (Newly introduced)
- 3) Allied Physics -II (U4R3PHAC5) (It is the Allied Course of previous curriculum but unit contents are changed)
- 4) Allied Physics Practical-II (U4R3PHAC6P) (Newly introduced)

III. Resolved to offer the following Allied Course to the Departments of Biochemistry and Physics

- 1) Chemistry-I (U1R3CHAC1) (Newly introduced for Biochemistry)
- 2) Allied Practical-I (U1R3CHAC2P) (Newly introduced for Biochemistry)
- 3) Chemistry-II (U2R3CHAC3) (Newly introduced for Biochemistry)
- 4) Allied Practical-II (U2R3CHAC4P) (Newly introduced for Biochemistry)
- 5) Chemistry-I (U3R3CHAC3) (Newly introduced for Physics)
- 6) Allied Practical-I (U3R3CHAC4P) (Newly introduced for Physics)
- 7) Chemistry-II (U4R3CHAC5) (Newly introduced for Physics)
- 8) Allied Practical-II (U4R3CHAC6P) (Newly introduced for Physics)

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

- 1) Cosmetic and Personal Grooming (Newly introduced)
- 2) Pesticide Chemistry (Newly introduced)
- 3) Instrumental Methods of Chemical Analysis (Newly introduced)
- 4) Forensic Science (Newly introduced)
- 5) Chemical Instrumentation (Newly introduced)

V. Resolved to have the following Non-major Elective Courses

- 1) Food Chemistry (Newly introduced)
- 2) Role of Chemistry (Newly introduced)
- 3) Dairy Chemistry (Newly introduced)

VI. Resolved to have the following Skill Enhancement Course

- 1) Experimental Skills in Chemistry (Newly introduced)
- 2) Industrial Chemistry (Newly introduced)
- 3) Biochemistry (Newly introduced)
- 4) Fundamentals of Spectroscopy (Newly introduced)
- 5) Nanoscience/Polymerscience/Pharmaceutical Chemistry (Newly introduced)

VII. It is resolved to newly introduce the “Foundation Course” in the first semester for the undergraduate students.

VIII. It is resolved to newly introduce “Ability Enhancement Compulsory Courses” in the first 4 semesters for the undergraduate students.

IX. It is resolved to newly introduce “Project with Viva Voce” for the undergraduate students in their 5th semester for the undergraduate students.

X. It is resolved to newly introduce “Professional competency skill” in the 6th semester for the undergraduate students.

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

Semester-I

- 1) Organic Reaction Mechanism -I(P1R3CHCC1) (The Core Course of previous curriculum, but unit contents are changed)
- 2) Structure and Bonding (P1R3CHCC2) (The Core Course of previous curriculum, but unit contents are changed)
- 3) Organic Chemistry Practical (P1R3CHCC3P) (The Core Course of previous curriculum retained as it is)

Semester-II

- 4) Organic Reaction Mechanism-II (P2R3CHCC4) (The Core Course of previous curriculum, but unit contents are changed)
- 5) Physical Chemistry-I (P2R3CHCC5) (The Core Course of previous curriculum, but unit contents are changed)
- 6) Inorganic Chemistry Practical (P2R3CHCC6P) (The Core Course of previous curriculum retained as it is)

Semester -III

- 7) Organic Synthesis and Photochemistry (P3R3CHCC7) (Newly introduced)
- 8) Coordination Chemistry -I (P3R3CHCC8) (The Core Course of previous curriculum, but unit contents are changed)
- 9) Physical Chemistry Practical (P3R3CHCC9P) (The Core Course of Previous curriculum retained as it is)
- 10) Core Industry Module (P3R3CHCIM) (Newly introduced)

Semester-IV

- 11) Coordination Chemistry-II (P4R3CHCC10) (Newly introduced)
- 12) Physical Chemistry-II (P2R3CHCC11) (The Core Course of previous curriculum, but unit contents are changed)
- 13) Analytical Instrumentation Techniques (P4R3CHCC12P) (The Core Course of previous curriculum, but unit contents are changed)
- 14) Project and Viva (P4R3CHCC13PW) (This Core Course of previous curriculum is retained as such)

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

Discipline Specific Elective Course

- 1) **Pharmaceutical Chemistry** (The Course of Previous curriculum retained as it is)
- 2) **Nanomaterial and Nanotechnology** (The Course of Previous curriculum retained as it is)
- 3) **Electro Chemistry** (Newly introduced)
- 4) **Molecular Spectroscopy** (Newly introduced)

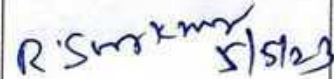
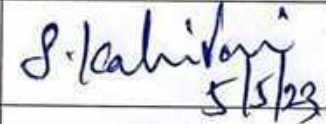
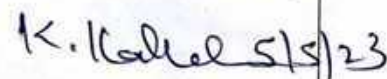
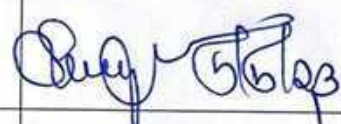
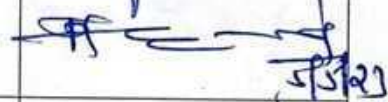
- 5) **Medicinal Chemistry** (The Course of Previous curriculum retained as it is)
- 6) **Green Chemistry** (The Course of Previous curriculum retained as it is)
- 7) **Bioinorganic Chemistry** (The Course of Previous curriculum retained as it is)
- 8) **Material Science** (The Course of Previous curriculum retained as it is)
- 9) **Pharmacognosy and Phytochemistry** (Newly introduced)
- 10) **Biomolecules and Heterocyclic Compound** (Newly introduced)
- 11) **Chemistry of Natural Products** (The Course of Previous curriculum retained as it is)
- 12) **Polymer Chemistry** (Newly introduced)

Skill Enhancement Courses

- 1) **Computational Chemistry** (Newly introduced)
- 2) **3D printing in Chemistry** (Newly introduced)
- 3) **Preparation of Consumer Products** (Newly introduced)
- 4) **Chemistry in Everyday life** (Newly introduced)
- 5) **Cosmetic Chemistry** (Newly introduced)
- 6) **Origin Lab** (Newly introduced)
- 7) **Industrial Chemistry** (Newly introduced)
- 8) **Research Tools and Technique** (Newly introduced)

Soft Skill Courses

- 1) **Chemistry for Life Sciences** (Newly introduced)
- 2) **Chemical Conservation** (Newly introduced)
- 3) **Chemistry in Food Preservation** (Newly introduced)
- 4) **Chemistry for Social Studies** (Newly introduced)
- 5) **Chemistry in Consumer Products** (Newly introduced)

S.No.	Name	Designation	Signature
1.	Dr.C.Muthukumar Assistant Professor and Head Department of Chemistry	Chairman	 5/5/23
2.	Dr.R.Ramesh Professor and Chair, School of Chemistry Bharathidasan University, Tiruchirappalli – 620 024	University Nominee	 5/5
3.	Dr.T.Stalin Associate Professor, Department of Industrial Chemistry Alagappa University, Karaikudi – 630 003	Subject Expert	 5/5/2023
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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.	
PART A	PIR3CHCC1	CC1–Organic Reaction Mechanism-I	5	4	3	25	75	100
	PIR3CHCC2	CC2–Structure and Bonding in Inorganic Compounds	5	4	3	25	75	100
	PIR3CHCC3P	CC3– Organic Chemistry Practical	5	4	3	25	75	100
	PIR3CHDSE1	Elective I (Pharmaceutical Chemistry/Nanomaterials and Nanotechnology)	5	3	3	25	75	100
	PIR3CHDSE2	Elective II Electrochemistry/MolecularSpectroscopy	5	3	3	25	75	100
PART B	PIR3CHAECC1	Ability Enhancement Compulsory Course(AECC1)SoftSkill-1	2	2	3	25	75	100
	PIR3CHSEC1	Skill Enhancement Course-SEC1	3	2	3	25	75	100
	Total		30	22			700	
SEMESTER – II								
PART A	P2R3CHCC4	CC4–Organic Reaction Mechanism-II	5	4	3	25	75	100
	P2R3CHCC5	CC5–PhysicalChemistry-I	5	4	3	25	75	100
	P2R3CHCC6P	CC6–Inorganic Chemistry Practical	5	4	3	25	75	100
	P2R3CHDSE3	Elective III: Medicinal Chemistry/Green Chemistry	5	3	3	25	75	100
	P2R3CHDSE4	Elective-IV: Bioinorganic Chemistry/Material Science	5	3	3	25	75	100
PART B	P2R3CHSEC2	Skill Enhancement Course-SEC2	3	2				100
	P2R3CHAECC2	Ability Enhancement Compulsory Course(AECC2) SoftSkill-2	2	2				100
Total			30	22			700	

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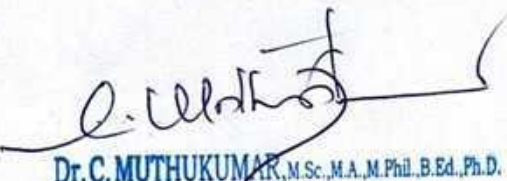
Dr. R. RAMESH
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Dr. I. S. TALIN, M.Sc., M.Phil., Ph.D.
Associate Professor
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Karaikudi - 630 003, Tamil Nadu

SEMESTER – III								
PART A	P3R3CHCC7	CC7–Organic Synthesis and Photochemistry	5	4	3	25	75	100
	P3R3CHCC8	CC8–Coordination Chemistry-I	5	4	3	25	75	100
	P3R3CHCC9P	CC9–Physical Chemistry Practical	5	4	3	25	75	100
	P3R3CHDSE5	Elective V(Generic/Discipline Specific) Pharmacognosy and Phytochemistry/ Biomolecules and Heterocyclic Compounds	5	3	3	25	75	100
	P3R3CH CIM	Core Industry Module	5	3	3	25	75	100
PART B								
	P3R3CHSEC3	SEC3:Professional Communication Skill-Term paper & Seminar presentation	3	2	3	25	75	100
	P3R3CHAECC3	(AECC3)Soft Skill-3	2	2	3	25	75	100
		Internship/Industrial Activity (Carried out in Summer Vacation at the end of I year–30hours)	-	2	-	25	75	100
		Total	30	24				800
SEMESTER – IV								
PART A	P4R3CHCC10	CC10–Coordination Chemistry-II	5	4	3	25	75	100
	P4R3CHCC11	CC11– Physical Chemistry-II	5	4	3	25	75	100
	P4R3CHCC12P	CC12–Analytical Instrumentation Technique Practicals	5	4	3	25	75	100
	P4R3CHDSE6	Elective VI (Generic/ Discipline Specific) Chemistry of Natural products/Polymer Chemistry	5	3	3	25	75	100
	P4R3CHCC13PW	Core Project with viva voce	6	3	3	25	75	100
PART B	P4R3CHSEC4	SEC4:Professional Competency Skill Enhancement Course-Training for Competitive Examinations (or) Chemistry for Advanced Research Studies (4hours)	4	2	-			100
	P4R3CHAECC4	(AECC4) Soft Skill-4		2				100
PART C		Extension Activity		1				
		Total	30	23				700
		Grand Total	120	91				2900

Elective Courses

- 1) Pharmaceutical Chemistry
- 2) Nanomaterial and Nanotechnology
- 3) Electro Chemistry
- 4) Molecular Spectroscopy
- 5) Medicinal Chemistry
- 6) Green Chemistry
- 7) Bioinorganic Chemistry
- 8) Material Science
- 9) Pharmacognosy and Phytochemistry
- 10) Biomolecules and Heterocyclic Compound
- 11) Chemistry of Natural Products
- 12) Polymer Chemistry


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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/HL1/ FL1/SL1/ABL1	Language	6	3	3	25	75	100
Part-II	U1R3EL1	English	4	3	3	25	75	100
Part-III	U1R3CHCC1	General Chemistry-I (CC1)	5	5	3	25	75	100
	U1R3CHCC2P	Quantitative Inorganic Estimation (Titrimetry) and Inorganic Preparation (CC2)	3	2	3	25	75	100
	U1R3MADSE1	Mathematics (or) Botany/ Zoology (EC1)	6	4	3	25	75	100
Part-IV	U1R3CHSEC1	Non Major Elective (Food Chemistry/ Role of Chemistry in Daily life)	2	2	3	25	75	100
	U1R3CHFC	Foundation Course (FC)	2	2	3	25	75	100
	U1R3CHAECC1	Soft Skill-1	2	2	3	25	75	100
			30	23				800
SEMESTER-II								
Part	Course Code	Courses Title	Hrs/ Week	Credit	Exam Hrs	Marks		Total Marks
						Int	Ext	
Part-I	U2R3TL2/HL2/ FL2/ SL2/ ABL2	Language	6	3	3	25	75	100
Part-II	U2R3EL2	English	4	3	3	25	75	100
Part-III	U2R3CHCC3	General Chemistry-II(CC3)	5	5	3	25	75	100
	U2R3CHCC4P	Qualitative Organic Analysis and Preparation of Organic compounds (CC4)	3	2	3	25	75	100
	U2R3MADSE2	Mathematics (or) Botany/ Zoology (EC2)	6	4	3	25	75	100
Part-IV	U2R3CHSEC2	Non Major Elective (Dairy Chemistry)	2	2	3	25	75	100
	U2R3CHSEC3	Skill Enhancement Course SEC-3 (Discipline Specific) Cosmetic and Personal Grooming	2	2	3	25	75	100
	U2R3CHAECC2	Soft Skill-2	2	2	3	25	75	100
			30	23				800

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SEMESTER-III

Part	Course Code	Courses Title	Hrs/ Week	Credit	Exam Hrs	Marks		Total Marks
						Int	Ext	
Part-I	U3R3TL3/HL3/ FL3/SL3/ABL3	Language	6	3	3	25	75	100
Part-II	U3R3EL3	English	4	3	3	25	75	100
Part-III	U3R3CHCC5	General Chemistry-III (CC5)	5	5	3	25	75	100
	U3R3CHCC6P	Quantitative Inorganic Analysis (CC6)	4	2	3	25	75	100
	U3R3PHDSE3	Physics (EC3)	5	4	3	25	75	100
Part-IV	U3R3CHSEC4	Skill Enhancement Course SEC-4 Experimental Skills in Chemistry	1	1	3	25	75	100
	U3R3CHSEC5	Skill Enhancement Course SEC-5 (Discipline Specific) Pesticide Chemistry	2	2	3	25	75	100
	U3R3CHAECC3	Soft Skill-3	2	2	3	25	75	100
		EVS	1	-				
			30	22				800

SEMESTER-IV

Part	Course Code	Courses Title	Hrs/ Week	Credit	Exam Hrs	Marks		Total Marks
						Int	Ext	
Part-I	U4R3TL4/HL4/ FL4/SL4/ABL4	Language	6	3	3	25	75	100
Part-II	U4R3EL4	English	4	3	3	25	75	100
Part-III	U4R3CHCC7	General Chemistry-IV(CC7)	4	4	3	25	75	100
	U4R3CHCC8P	Physical Chemistry Practical-1 (CC8)	3	3	3	25	75	100
	U4R3PHDSE4	Physics (EC4)	5	4	3	25	75	100
Part-IV	U4R3CHSEC6	Skill Enhancement Course SEC-6 (Discipline Specific) Instrumental Methods of Chemical Analysis	2	2	3	25	75	100
	U4R3CHSEC7	Skill Enhancement Course SEC-7 (Discipline Specific)Forensic Science	2	2	3	25	75	100
	U4R3CHAECC4	Ability Enhancement Compulsory Course (AECC) Soft Skill-4	2	2	3	25	75	100
	U4R3CHEVS	EVS	2	2		25	75	100
			30	25				900

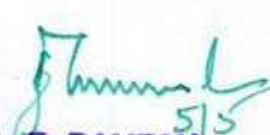
SEMESTER-V

Part	Course Code	Courses Title	Hrs/ Week	Credit	Exam Hrs	Marks		Total Marks
						Int	Ext	
Part-III	U5R3CHCC9	Organic Chemistry-I (CC9)	5	4	3	25	75	100
	U5R3CHCC10	Inorganic Chemistry-I (CC10)	4	4	3	25	75	100
	U5R3CHCC11	Physical Chemistry-I (CC11)	5	4	3	25	75	100
	U5R3CHCC12 PW	Project with viva voce (CC12)	4	4	3	25	75	100
	U5R3CHDSE5	Biochemistry (EC5)	4	3	3	25	75	100
	U5R3CHDSE6	Industrial Chemistry (EC6)	4	3	3	25	75	100
Part-IV	U5R3CHVE	Value Education	2	2	3	25	75	100
		Internship/ Industrial Visit/Field visit (Carried out in during IV semester vacation - 30 hours)	2	2	-	25	75	100
			30	26	-	-	-	800

SEMESTER-VI

Part	Course Code	Courses Title	Hrs/ Week	Credit	Exam Hrs	Marks		Total Marks
						Int	Ext	
Part-III	U6R3CHCC13	Organic Chemistry-II (CC13)	5	3	3	25	75	100
	U6R34HCC14	Inorganic Chemistry-II (CC14)	4	3	3	25	75	100
	U6R3CHCC15	Physical Chemistry-II (CC15)	5	4	3	25	75	100
	U6R3CHCC16P	Physical Chemistry Practical-II (CC16)	3	2	3	25	75	100
	U6R3CHDSE7	Fundamentals of Spectroscopy (EC7)	5	3	3	25	75	100
	U6R3CHDSE8	Nanoscience /Polymer Science/ Pharmaceutical Chemistry (EC8)	4	3	3	25	75	100
Part-IV	U6R3CHSEC8	Professional Competency Skill	4	2	3	25	75	100
Part-V		Extension Activity	-	1	-	-	-	-
			30	21				700
			Total	140				4800


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