

B.Sc., SCHEME OF EXAMINATIONS

Subject Code	Subject	Hours of Instruction	Exam Duration (Hours)	Maximum Marks			Credit
				CA	CE	Total	
FIRST SEMESTER							
PART-I							
18UTALA101 18UHILA101 18UFRLA101	Tamil I / Hindi I / French I	5	3	25	75	100	3
PART-II							
18UENLA101	Foundation English I	5	3	25	75	100	3
PART-III							
18UCHM101	Core I: General Chemistry I	5	3	25	75	100	4
18UCHM102	Core II: Industrial Chemistry	5	3	25	75	100	4
18UMACHA101	Allied I: Algebra and Differential Calculus	5	3	25	75	100	4
18UCHMP101	Core Practical I: Volumetric and Inorganic Preparations	3	3	40	60	100	3
PART-IV							
18UVE101	Value Education I: Yoga	2	3	25	75	100	2
Total		30				700	23

B.Sc., Chemistry (Students admitted from 2018-19 onwards)

Subject Code	Subject	Hours of Instruction	Exam Duration (Hours)	Maximum Marks			Credit Points
				CA	CE	Total	
SECOND SEMESTER							
PART I							
18UTALA201 18UHILA201 18UFRLA201	Tamil II / Hindi II / French II	5	3	25	75	100	3
PART II							
18UENLA201	Foundation English II	5	3	25	75	100	3
PART III							
18UCHM201	Core III: General Chemistry II	5	3	25	75	100	4
18UCHM202	Core IV: Pharmaceutical Chemistry	5	3	25	75	100	4
18UMACHA201	Allied II : Integral Calculus and Vector Calculus	5	3	25	75	100	4
18UCHMP201	Core Practical II: Organic Qualitative Analysis	3	3	40	60	100	3
PART IV							
18UVE201	Value Education II: Environmental Studies	2	3	25	75	100	2
Total		30				700	23

B.Sc., Chemistry (Students admitted from 2018-19 onwards)

THIRD SEMESTER							
PART I							
18UTALA301 18UHILA301 18UFRLA301	Tamil III / Hindi III / French III	5	3	25	75	100	3
PART II							
18UENLA301	Foundation English III	5	3	25	75	100	3
PART III							
18UCHM301	Core V: General Chemistry III	4	3	25	75	100	4
18UPHCHA301	Allied III: Physics I	3	3	25	75	100	2
18UCHMP301	Core Practical III: Inorganic Qualitative Analysis	3	3	40	60	100	3
18UPHCHAP301	Allied Practical I: Physics I	3	3	40	60	100	2
PART IV							
18UCHSB301	SBC I: Food Chemistry	2	3	40	60	100	2
	NMEC I	2	3	25	75	100	2
NON CREDIT							
18ULS301	Career Competency Skills I	1	-	-	-	-	-
	Add-on course	2	-	-	-	-	-
Total		30	-	-	-	800	21

B.Sc., Chemistry (Students admitted from 2018-19 onwards)

FOURTH SEMESTER							
PART I							
18UTALA401 18UHILA401 18UFRLA401	Tamil IV / Hindi IV / French IV	5	3	25	75	100	3
PART II							
18UENLA401	Foundation English IV	5	3	25	75	100	3
PART III							
18UCHM401	Core VI: General Chemistry IV	4	3	25	75	100	4
18UPHCHA401	Allied IV: Physics II	3	3	25	75	100	2
18UCHMP401	Core Practical IV: Physical Practical	3	3	40	60	100	3
18UPHCHAP401	Allied Practical II: Physics II	3	3	40	60	100	2
PART IV							
18UCHSB401	SBC II: Textile Chemistry	2	3	25	75	100	2
	NMEC II	2	3	25	75	100	2
NON CREDIT							
18ULS401	Career Competency Skills II	1	-	-	-	-	-
	Add-on Course	2	-	-	-	-	-
Total		30	-	-	-	800	21

B.Sc., Chemistry (Students admitted from 2018-19 onwards)

Subject Code	Subject	Hours of Instruction	Exam Duration (Hours)	Maximum Marks			Credit Points
				CA	CE	Total	
FIFTH SEMESTER							
PART III							
18UCHM501	Core VII: Inorganic Chemistry I	5	3	25	75	100	4
18UCHM502	Core VIII: Organic Chemistry I	5	3	25	75	100	5
18UCHM503	Core IX: Physical Chemistry I	4	3	25	75	100	4
18UCHM504	Core X: Analytical Chemistry	4	3	25	75	100	4
	Elective I (One Unit - Self Study)	4	3	25	75	100	4
18UCHMP501	Core Practical IV: Gravimetric Estimation and Organic Preparation	5	6	25	75	100	3
PART IV							
18UCHSB501	SBC III: Polymer Chemistry	2	3	25	75	100	2
18UCHE501	Extension Activity	-	-	-	-	-	2
NON CREDIT							
18ULS501	Career Competency Skills III	1	-	-	-	-	-
Total		30				700	28

B.Sc., Chemistry (Students admitted from 2018-19 onwards)

Subject Code	Subject	Hours of Instruction	Exam Duration (Hours)	Maximum Marks			Credit Points
				CA	CE	Total	
SIXTH SEMESTER							
PART III							
18UCHM601	Core XI: Inorganic Chemistry II	5	3	25	75	100	5
18UCHM602	Core XII: Organic Chemistry II	6	3	25	75	100	5
18UCHM603	Core XIII: Physical Chemistry II	5	3	25	75	100	4
	Elective II (One Unit - Self Study)	5	3	25	75	100	4
18UCHPR601	Project & Viva-Voce	5		25	75	100	4
PART IV							
18UCHSB601	SBC IV: Agricultural Chemistry	3	3	25	75	100	2
18ULS601	Career Competency Skills IV	1	-	-	-	-	-
Total		30				600	24

Non-Major Elective Course:

The department offers the following two subjects as Non Major Elective course for other than chemistry students for third and fourth semesters.

S. No	Semester	Subject Code	Subject
1.	III	18UCHNM301	Applied Chemistry I
2.	IV	18UCHNM401	Applied Chemistry II

Add-on course:

The department offers the following two subjects as Add-on courses for third and fourth semesters.

S. No	Semester	Subject Code	Subject
1.	III	18UCHAC301	Water quality analysis and treatment
2.	IV	18UCHAC401	Chemistry of Milk and Milk Products

Elective I

The department offers the following two subjects as Elective courses for Fifth semester

S. No	Semester	Paper code	Paper name
1.	V	18UCHEL501	Elective I: Spectroscopy I
2.	V	18UCHEL502	Elective I: Bio-Inorganic Chemistry

Elective II

The department offers the following two subjects as Elective courses for Sixth semester

S. No	Semester	Paper code	Paper name
1.	VI	18UCHEL601	Elective II: Green Chemistry and Nano Chemistry
2.	VI	18UCHEL602	Elective II: Spectroscopy II

Advanced Learners' course:

The department offers the following two subjects as Advanced Learner's course for fourth semester

S. No	Semester	Subject Code	Subject
1.	IV	18UCHAL401	Chemistry in daily life I
2.	IV	18UCHAL402	Chemistry in context

Advanced Learners' Course:

The department offers the following two subjects as Advanced Learner's course for fifth semester

S. No	Semester	Subject Code	Subject
1.	V	18UCHAL501	Chemistry for Environment
2.	V	18UCHAL502	Quantum and Solid State Chemistry

FOR COURSE COMPLETION

- Students shall complete the course of study under Part I (Tamil/Malayalam/French/Hindi) and Part II (English) papers in I, II, III and IV semester.
- ☐ Students shall pass Value Education such as Yoga and Environmental Studies in I and II Semester, respectively.
- Students shall complete allied subjects in I, II, III and IV Semester.
- Students shall choose and pass a Non Major Elective Course and Ad-on Course in III and IV semester.
- Students shall pass Skill based Courses in III, IV, V and VI semesters
- Students shall involve an extension activity in V semester.

TOTAL CREDIT DISTRIBUTION

S. No.	Components	No. papers	Marks	Credits
1	PART I :Language	4	4 X 100 = 400	4 X 3 = 12
2	PART II : Foundation English	4	4 X 100 = 400	4 X 3 = 12
3	PART III : Core Papers	13	13 X 100=1300	10 X 4 = 40 3 X 5 = 15
	Project & Viva-Voce	-	1 X 100=100	1 X 4 = 4
	Elective paper	2	2 X 100 = 200	2 X 4 = 8
	Skill Based Course (SBC)	4	4 X 100 = 400	4 X 2 = 8
	Core Practical	5	5 X 100 = 500	5 X 3= 15
	Allied Theory: Mathematics I & II	2	2X100=200	2 X 4 = 8
	Allied: Physics Theory & Physics Practical	4	2 X 100=200 2 X 100=200	2 X 2 = 4 2 X 2 = 4
4	PART-IV : Value Education I & II	2	2 X 100 = 200	2 X 2 = 4
	NMEC I & II	2	2 X 100 = 200	2 X 2 = 4
	PART IV: Extension Activity	-	---	1 X 2 = 2
5	Ad-on Course	2	-	-
6	Career Competency skills	4	-	-
	TOTAL	36	4300	140