

**DEPARTMENT OF CHEMISTRY**  
**PROGRAMME: B Sc Chemistry**

**Semester I**

Course	Paper code	Paper	Total Hours	Hours /Week	Credit
Common Course I	ENG1A01	Litmosphere:The world of literature	64	4	3
Common Course II	ENG1A02	Functional grammar and communication in English	80	5	3
Common Course III	ARB1A07	Language skills in Arabic	64	4	4
	MAL1A07	Malayalam sahithyam - 1	64	4	4
Core Course I	CHE1B01	Theoretical and Inorganic Chemistry - I	32	2	2
Core Course V	-	Inorganic Chemistry Practical - I	32	2	-
Complementary I	MTS1C01	Mathematics - 1	64	4	3
Complementary II	PHY1C01	Properties of matter and Thermodynamics	36	2	2
Complementary II	-	Physics Practical	36	2	-
Audit Course	AUDE01	Environmental studies	-	-	4

**Semester II**

Course	Paper code	Paper	Total Hours	Hours /Week	Credit
Common Course IV	ENG2A03	Readings from the fringes	64	4	4
Common Course V	ENG2A04	Readings on Kerala	80	5	4
Common Course VI	ARB2A08	Appreciation Arabic Literature	64	4	4
	MAL2A08	Malayalam sahithyam - 2	64	4	4
Core Course II	CHE2B02	Theoretical Inorganic Chemistry - II	32	2	2
Core Course V	-	Inorganic Chemistry Practical - I	32	2	-
Complementary I	MTS2C02	Mathematics - 2	64	4	3
Complementary II	PHY2C02	Optics, Laser, Electronics	36	2	2
Complementary II	-	Physics Practical	36	2	-
Audit Course	AUDE02	Disaster Management	-	-	4

**Semester III**

Course	Paper code	Paper	Total Hours	Hours /Week	Credit
Common Course VII	ENG3A05	Readings on Indian literatures	80	5	4
Common Course VIII	ARB3A09	Reading Arabic Prose And Poetry	80	5	4
	MAL3A09	Malayalam Sahithyam-3	80	5	4
Core Course III	CHE3B03	Physical Chemistry - I	48	3	3
Core Course V	-	Inorganic Chemistry Practical - I	32	2	-
Complementary I	MTS3C03	Mathematics - 3	80	5	3
Complementary II	PHY3C03	Mechanics, Relativity, Waves and Oscillations	54	3	2
Complementary II	-	Physics Practical	36	2	-
Audit Course	AUDE03	Human rights or Intellectual property rights or Consumer protection	-	-	4

<b>Semester IV</b>					
<b>Course</b>	<b>Paper code</b>	<b>Paper</b>	<b>Total Hours</b>	<b>Hours /Week</b>	<b>Credit</b>
Common Course VII	ENG4A06	Songs and Stories of world	80	5	4
Common Course VIII	ARB4A10	Arabic Literature and Culture	80	5	4
	MAL4A10	Malayalam Sahityam-4	80	5	4
Core Course IV	CHE4B04	Organic Chemistry - I	48	3	3
Core Course V	CHE4B05(P)	Inorganic Chemistry Practical - I	32	2	4
Complementary I	MTS4C04	Mathematics - 4	80	5	3
Complementary II	PHY4C04	Electricity, Magnetism and Nuclear Physics	54	3	2
Complementary II	PHY4C05	Physics Practical	36	2	4
Audit Course	AUDE04	Gender studies or Gerontology	-	-	4
<b>Semester V</b>					
<b>Course Title</b>	<b>Paper Code</b>	<b>Paper</b>	<b>Total hours</b>	<b>Hours /week</b>	<b>Credit</b>
Core Course VI	CHE5B06	Inorganic Chemistry - III	48	3	3
Core Course VII	CHE5B07	Organic Chemistry - II	64	4	3
Core Course VIII	CHE5B08	Physical Chemistry - II	48	3	3
Open Course	CHE5D01	Environmental Chemistry	48	3	3
Core CourseX IV	-	Physical Chemistry Practical	80	5	-
Core Course XV	-	Organic Chemistry Practical	80	5	-
Core Course XVIII	-	Project work	32	2	-
<b>Semester VI</b>					
<b>Course Title</b>	<b>Paper Code</b>	<b>Paper</b>	<b>Total hours</b>	<b>Hours /week</b>	<b>Credit</b>
Core Course IX	CHE6B09	Inorganic Chemistry - IV	48	3	3
Core Course X	CHE6B10	Organic Chemistry - III	48	3	3
Core Course XI	CHE6B11	Physical Chemistry - III	48	3	3
Core Course XII	CHE6B12	Advanced and Applied Chemistry	48	3	3
Core Course XIII	CHE6B13(E2)	Polymer Chemistry	48	3	2
Core CourseX IV	CHE6B14(P)	Physical Chemistry Practical	-	-	4
Core Course XV	CHE6B15(P)	Organic Chemistry Practical	-	-	4
Core Course XVI	CHE6B16(P)	Inorganic Chemistry Practical – II	80	5	4
Core CourseX VII	CHE6B17(P)	Inorganic Chemistry Practical – III	80	5	4
Core Course XVIII	CHE6B18(Pr)	Project work	-	-	2