

BHARATHIAR UNIVERSITY: COIMBATORE 641 046
B. Sc. Chemistry – Curriculum (Affiliated Colleges)
(For the students admitted during the academic year 2020 – 21 onwards)
Revised Scheme of Examinations (CBCS Pattern)

Course Code	Title of the Course	Credits	Hours		Maximum Marks		
			Theory	Practical	CIA	ESE	Total
FIRST SEMESTER							
11T	Language – I	4	6	-	25	75	100
12E	English – I	4	6	-	25	75	100
13A	Core I – Paper I General Chemistry I	4	7	-	25	75	100
23P	Core Chemistry Practical - I	-	-	3	-	-	-
	Allied A:Paper I* (or) Paper I**	4	6	-	25	75	100
		3	4	-	20	55	75
	Allied Practical**	-	-	2	-	-	-
1FC	Environmental Studies #	2	2	-	-	50	50
Total		17	25	5	95	330	425
SECOND SEMESTER							
21T	Language – II	4	6	-	25	75	100
22E	English – II	4	6	-	25	75	100
23A	Core II – Paper II General Chemistry II	4	7	-	25	75	100
23P	Core III – Practical I (Inorganic Qualitative Analysis)	4	-	3	25	75	100
	Allied A:Paper II*(or) Paper II**	4	6	-	25	75	100
		3	4	-	20	55	75
	Allied Practical**	2	-	2	20	30	50
2FB	Value Education – Human Rights #	2	2	-	-	50	50
Total		23	25	5	140	435	575
THIRD SEMESTER							
31T	Language – III	4	6	-	25	75	100
32E	English – III	4	6	-	25	75	100
33A	Core IV – Paper III Inorganic Chemistry I	4	3	-	25	75	100
33B	Core V – Paper IV Physical Chemistry I	4	3	-	25	75	100
	Core Chemistry Practical - II	-	-	2	-	-	-
	Allied A:Paper II*(or) Paper II**	4	6	-	25	75	100
		3	4	-	20	55	75

	Allied Practical**	-	-	2	-	-	-
4ZB	Skill based Subject – I Chemistry of Natural and Synthetic Fibers	3	2	-	20	55	75
	Tamil @ / Advanced Tamil# (OR) Non-major elective - I (Yoga for Human Excellence)# / Women's Rights	2	2	-	-	50	50
Total		24	26	4	140	460	600
FOURTH SEMESTER							
41T	Language – IV	4	6	-	25	75	100
42E	English – IV	4	6	-	25	75	100
43A	Core VI - Paper V Organic Chemistry I	4	4	-	25	75	100
43P	Core VII – Practical II (Volumetric and Organic Analysis)	4	-	3	40	60	100
	Allied A: Paper II*(or) Paper II**	4	6	-	25	75	100
		3	4	-	20	55	75
	Allied Practical**	2	-	2	20	30	50
4ZB	Skill based Subject – II Technology or Dyeing of Natural Fibers	3	3	-	20	55	75
	Tamil @ /Advanced Tamil # (OR) Non- major elective -II (General Awareness #)	2	2	-	-	50	50
Total		26	25	5	175	475	650
FIFTH SEMESTER							
53A	Core VIII – Paper VI Inorganic Chemistry II	4	5	-	25	75	100
53B	Core IX – Paper VII Spectroscopy	4	5	-	25	75	100
53C	Core X – Paper VIII Electrochemistry	4	5	-	25	75	100
53D	Core XI – Paper IX Analytical Chemistry	4	4	-	25	75	100
	Core Chemistry Practical III	-	-	4	-	-	-
5EA	Elective I	4	4	-	25	75	100
5ZC	Skill based Subject – III Water & Effluent Treatment And Pollution Control	3	3	-	20	55	75
Total		23	26	4	145	430	575

SIXTH SEMESTER							
63A	Core XII – Paper X Organic Chemistry II	4	5	-	25	75	100
63B	Core XIII – Paper XI Physical Chemistry II	4	5	-	25	75	100
63P	Core XIV Practical III (Gravimetric And Physical)	4	-	7	40	60	100
6EC	Elective II	3	4	-	20	55	75
6EE	Elective III	3	4	-	20	55	75
63Q	Core XV – Practical for Elective Subjects	4	-	3	40	60	100
6ZP	Skill Based Subject – IV Textile Chemistry Practical	3	-	2	30	45	75
	Extension Activities @	2	-	-	50	-	50
Total		27	18	12	250	425	675
Grand Total		140	145	35	945	2555	3500
* For subjects without practical ** For subjects with practical							
@ No University Examinations. Only Continuous Internal Assessment (CIA)							
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Allied Subjects (Colleges can choose any two subjects)							
1. Mathematics, 2. Physics, 3. Botany, 4. Zoology, 5. Biochemistry							
List of Elective papers							
(Colleges can choose any one of the paper as electives)							
Elective – I	A	Polymer Chemistry					
	B	Agro Industrial Chemistry					
	C	Pharmaceutical Chemistry					
Elective – II	A	Leather Chemistry					
	B	Chemistry of Plant Based Products					
	C	Dye Chemistry					
Elective – III	A	Analytical Chemistry II Lab Techniques					
	B	Environmental Chemistry					
	C	Textile Chemistry					