	KAZI NAZR	RUL UNIVERSITY		FACULTY OF SCIENCE		DEGREE PROGRAM! PROGRAM IN CHEM				WIT	H EFFECT	FROM THE	ACADEMI	C SESSION: 2	2022-23				
Abbreviated Degree	Discipline	Abbreviated Degree Programme	Semester	Course Name	Course Type	Course Code	Course Details	L - T - P	Course Credit	Sem Credit	CA Practical	Marks Theoretical		E Marks Theoretical	Total Marks	Sem Marks			
				Basics in Organic & Inorganic Chemistry		BSCPCEMC101	CC-1(1)	5 - 1 - 0	6			15		35	50				
			I	Discipline 2: CC-1(1) of Other Discipline Discipline 3: CC-1(1) of Other Discipline	С	See Pool	CC-2(1)	See Pool	6	22		See	Pool		Marks of Disc.2 &	100 + Marks of Disc.2 & Disc.3			
							CC-3(1)		6						Disc.3				
				Environment Studies	AE	AEE101	AECC-1	4 - 0 - 0	4			15		35	50				
				Elementary Physical Chemistry & Organic Chemistry	1	BSCPCEMC201	CC-1(2)	4 - 0 -4	6		30	15	20	35	100				
						B3CFCEWC201		4-0-4			30	13	20	33	Marks of				
			п	Discipline 2: CC-1(2) of Other Discipline	С	See Pool	CC-2(2)	See Pool	6	22		See	Pool		Disc.2 &	150 + Marks of Disc.2			
				Discipline 3: CC-1(2) of Other Discipline		CC-3(2)		6		550 1 551				Disc.3	& Disc.3				
				English/MIL Communication	AE	See Pool	AECC-2	4 - 0 - 0	4			15		35	50				
				Physical Chemistry & Inorganic Chemistry		BSCPCEMC301	CC-1(3)	4 - 0 - 4	6		30	15	20	35	100				
			1111	Discipline 2: CC-1(3) of Other Discipline	С	See Pool	CC-2(3)	See Pool	6	22	See Pool				Marks of	150 + Marks of Disc.2			
			111	Discipline 3: CC-1(3) of Other Discipline			CC-3(3)	See Pool	6						Disc.2 & Disc.3	& Disc.3			
				Industrial Chemistry	SE	BSCPCEMSE301	SEC-1	4 - 0 - 0	4			15		35	50				
BSCP	CHEMISTRY	BSCPCEM		In	1				_										
				Inorganic Chemistry & Organic Chemistry		BSCPCEMC401	CC-1(4)	4 - 0 - 4	6		30	15	20	35	100				
			IV	Discipline 2: CC-1(4) of Other Discipline	С	See Pool	CC-2(4)	See Pool 6	6	22	See Pool				Marks of Disc.2 &	150 + Marks of Disc.2			
				Discipline 3: CC-1(4) of Other Discipline			CC-3(4)		6						Disc.3	& Disc.3			
				Chemistry of Cosmetics & Perfumes	SE	BSCPCEMSE401	SEC-2	4 - 0 - 0	4			15		35	50				
				Applied Chemistry (Any One)		BSCPCEMDSE501	DSEC-1(1)	5 - 1 - 0	6			15		35	50				
			v	Quantum Chemistry, Spectroscopy & Photochemistry Discipline 2: DSE-1(1) of Other Discipline	DSE	BSCPCEMDSE502	DSEC-2(1)	5 - 1 - 0	6	22		15		35	Marks of	100 + Marks of DSEC			
			•	Discipline 3: DSE-1(1) of Other Discipline Discipline 3: DSE-1(1) of Other Discipline		See Pool	DSEC-2(1) DSEC-3(1)	See Pool	6	22		See	Pool		DSE	100 + Marks of DSEC			
				Pharmaceutical Chemistry	SE	BSCPCEMSE501	SEC-3	4 - 0 - 0	4			15	1	35	50				
														•					
				Chemistry of Bio-molecules & Chemotherapy (Any One)		BSCPCEMDSE601	DSEC-1(2)	5 - 1 - 0	6			15		35	50				
				Advanced Inorganic Chemistry	DSE	BSCPCEMDSE602	` '	5 - 1 - 0	-			15		35					
			VI	Discipline 2: DSE-1(2) of Other Discipline Discipline 3: DSE-1(2) of Other Discipline		See Pool	DSEC-2(2) DSEC-3(2)	See Pool	6	22		See	Pool		Marks of DSE	100 + Marks of DSEC			
				Fuel Chemistry	SE	BSCPCEMSE601	SEC-4	4 - 0 - 0	4			15		35	50				
				Total Credit and Marks						132			7	750 + Marks of	Disc.2 & D	isc.3 + Marks of DSEC			

Abbreviations: C= Core; CC=Core Course; AE= Ability Enhancement; AECC= Ability Enhancement Compulsory Course; GE= Generic Elective Course; SE= Skill Enhancement; SEC= Skill Enhancement Course; DSE= Discipline Specific Elective; DSEC= Discipline Specific Elective Course; CA= Continuous Assessment, ESE= End Semester Examination, L= Lecture Hour; T= Tutorial Hour and P= Practical Hour/ Field Work and NA= Not Applicable

Discipline-2: Students of a particular Program Course will choose Discipline-2 of any other Discipline except of his/her own. For example, if a student opts for Program Course in Chemistry then that student is required to opt Discipline-2 from Program Courses other than Chemistry. Once Discipline-2 is chosen in the 1st Semester the student is to continue with the same in the remaining semesters.

Discipline-3: Students of a particular Program Course will choose Discipline-3 of any other Discipline tand Discipline 1 and Discipline-2 of nesting the student is to continue with the same in the remaining semesters.

Semesterwise Pool of Core Courses offered by this Discipline (when treated as Discipline 2 for other Program Courses across the faculties as far as practicable)

Discipline-2	Semester	Course Name	Course	Course Code	Course	т т р	Course	Sem	CA	Marks	ESE	Marks	Total	Sem Marks
Discipline-2	Semester	Course Name	Type	Course Coue	Details	L-1-F	Credit	Credit	Practical	Theoretical	Practical	Theoretical	Marks	Sem Marks
	I	Basics in Organic and Inorganic Chemistry		BSCPCEMC101	CC-2(1)	5 - 1 - 0	6			15		35	50	
CHEMISTRY	II	Elementary Physical Chemistry & Organic Chemistry		BSCPCEMC201	CC-2(2)	4 - 0 - 4	6	NA	30	15	20	35	100	NA
CHEMISTRY	III	Physical Chemistry & Inorganic Chemistry		BSCPCEMC301	CC-2(3)	4 - 0 - 4	6	INA	30	15	20	35	100	NA
	IV	Inorganic Chemistry & Organic Chemistry		BSCPCEMC401	CC-2(4)	4 - 0 - 4	6		30	15	20	35	100	

				Course		Course		Course	Sem	CA	Marks	ESE Marks		Total	
Discipline-3	Semester	Course Name		Type	Course Code	Details	L - T - P	Credit	Credit		Theoretical			Marks	Sem Mark
	I	Basics in Organic and Inorganic Chemistry			BSCPCEMC101	CC-3(1)	5 - 1 - 0	6		7 7 11 11 11 11	15	114000	35	50	
GANDA A COMPANY	II	Elementary Physical Chemistry & Organic Chemistry		С	BSCPCEMC201	CC-3(2)	4 - 0 - 4	6		30	15	20	35	100	NA
CHEMISTRY	III	Physical Chemistry & Inorganic Chemistry			BSCPCEMC301	CC-3(3)	4 - 0 - 4	6	NA	30	15	20	35	100	
	IV	Inorganic Chemistry & Organic Chemistry			BSCPCEMC401	CC-3(4)	4 - 0 - 4	6		30	15	20	35	100	
					•								-		
		r Program Course will choose DSEC-2 from DSEC-1 of I													
e Specific Elective Course (DSEC) -3: Stude	ents of a particula	r Program Course will choose DSEC-3 from DSEC-1 of I	Discipline 3.												
	DODG: 40														
wise Pool of Discipline Specific Elective Cou	irses (DSEC) offe	red by this Discipline (when treated as Discipline 2 for oth	ther Program		oss the faculties as far a			C	G		M. J.	L ECE	2.34	T. (.)	
Discipline-2	Semester	Course Name		Course Type	Course Code	Course Details	L - T - P	Course Credit	Sem Credit		Marks Theoretical		E Marks	Total Marks	Sem Mar
		Applied Chemistry		туре	BSCPCEMDSE501		5 - 1 - 0	Credit	Credit	Practical	1heoretical 15	Practical	35	Marks	
CHEMISTRY	V	Quantum Chemistry, Spectroscopy & Photochemistry	(Any One)	/	BSCPCEMDSE502	DSEC-2(1)	5 - 1 - 0	6			15		35		
		Chemistry of Bio-molecules & Chemotherapy	+	DSE	BSCPCEMDSE601		5 - 1 - 0		NA		15		35		NA
	VI	Advanced Inorganic Chemistry	(Any One)			DSEC-2(2)	3-1-0	6		1 1	1.5		33	50	1
			() /		BSCPCEMDSE602	D5LC-2(2)	5 - 1 - 0	U			15		35	1 30 1	
		Advanced inorganic Chemistry			BSCPCEMDSE602	D3LC-2(2)	5 - 1 - 0				15		35	30	
rwise Pool of Discipline Specific Elective Cou	rses (DSEC) offe	,		Courses acro	'		5 - 1 - 0	0			15		35	30	
• •	<u> </u>	red by this Discipline (when treated as Discipline 3 for ot			oss the faculties as far a	as practicable)			Sem	CA	15 Marks	ESF	35 E Marks		
rwise Pool of Discipline Specific Elective Cou	Semester	,		Course	'		5 - 1 - 0 L - T - P	Course	Sem Credit					Total Marks	Sem Mar
• •	Semester	red by this Discipline (when treated as Discipline 3 for ot	ther Program		oss the faculties as far a	as practicable) Course Details		Course Credit	Sem Credit		Marks		E Marks	Total Marks	Sem Mar
Discipline-3	<u> </u>	red by this Discipline (when treated as Discipline 3 for oth Course Name		Course Type	oss the faculties as far a	as practicable) Course	L - T - P	Course	Credit		Marks Theoretical		E Marks Theoretical	Total	Sem Mar
	Semester V	red by this Discipline (when treated as Discipline 3 for oth Course Name Applied Chemistry	ther Program (Any One)	Course	oss the faculties as far a Course Code BSCPCEMDSE501	as practicable) Course Details DSEC-3(1)	L-T-P 5-1-0	Course Credit			Marks Theoretical		E Marks Theoretical 35	Total Marks	Sem Mar
Discipline-3	Semester	red by this Discipline (when treated as Discipline 3 for oth Course Name Applied Chemistry Quantum Chemistry, Spectroscopy & Photochemistry	ther Program	Course Type	oss the faculties as far a Course Code BSCPCEMDSE501 BSCPCEMDSE502	as practicable) Course Details	L-T-P 5-1-0 5-1-0	Course Credit	Credit		Marks Theoretical 15 15		E Marks Theoretical 35 35	Total Marks	
Discipline-3	Semester V	red by this Discipline (when treated as Discipline 3 for oth Course Name Applied Chemistry Quantum Chemistry, Spectroscopy & Photochemistry Chemistry of Bio-molecules & Chemotherapy	ther Program (Any One)	Course Type	oss the faculties as far a Course Code BSCPCEMDSE501 BSCPCEMDSE502 BSCPCEMDSE601	as practicable) Course Details DSEC-3(1)	L-T-P 5-1-0 5-1-0 5-1-0	Course Credit	Credit		Marks Theoretical 15 15 15		E Marks Theoretical 35 35 35	Total Marks	
Discipline-3 CHEMISTRY	Semester V VI	red by this Discipline (when treated as Discipline 3 for oth Course Name Applied Chemistry Quantum Chemistry, Spectroscopy & Photochemistry Chemistry of Bio-molecules & Chemotherapy Advanced Inorganic Chemistry	ther Program (Any One)	Course Type	oss the faculties as far a Course Code BSCPCEMDSE501 BSCPCEMDSE502 BSCPCEMDSE601	as practicable) Course Details DSEC-3(1)	L-T-P 5-1-0 5-1-0 5-1-0	Course Credit	Credit		Marks Theoretical 15 15 15		E Marks Theoretical 35 35 35	Total Marks	
Discipline-3 CHEMISTRY Communication Courses offered as Ability E	Semester V VI Conhancement Con	red by this Discipline (when treated as Discipline 3 for oth Course Name Applied Chemistry Quantum Chemistry, Spectroscopy & Photochemistry Chemistry of Bio-molecules & Chemotherapy Advanced Inorganic Chemistry	ther Program (Any One)	Course Type	oss the faculties as far a Course Code BSCPCEMDSE501 BSCPCEMDSE502 BSCPCEMDSE601 BSCPCEMDSE602	as practicable) Course Details DSEC-3(1)	L-T-P 5-1-0 5-1-0 5-1-0	Course Credit	Credit	Practical	Marks Theoretical 15 15 15 15 15 15 Marks	Practical	E Marks Theoretical 35 35 35	Total Marks	NA
Discipline-3 CHEMISTRY	Semester V VI	red by this Discipline (when treated as Discipline 3 for oth Course Name Applied Chemistry Quantum Chemistry, Spectroscopy & Photochemistry Chemistry of Bio-molecules & Chemotherapy Advanced Inorganic Chemistry	ther Program (Any One)	Course Type DSE	oss the faculties as far a Course Code BSCPCEMDSE501 BSCPCEMDSE502 BSCPCEMDSE601 BSCPCEMDSE602 Course Code	Course Details DSEC-3(1) DSEC-3(2)	L-T-P 5-1-0 5-1-0 5-1-0	Course Credit 6	Credit NA	Practical	Marks Theoretical 15 15 15 15	Practical	Theoretical 35 35 35 35 35	Total Marks 50 50	NA
Discipline-3 CHEMISTRY Communication Courses offered as Ability E	Semester V VI Conhancement Con	red by this Discipline (when treated as Discipline 3 for oth Course Name Applied Chemistry Quantum Chemistry, Spectroscopy & Photochemistry Chemistry of Bio-molecules & Chemotherapy Advanced Inorganic Chemistry pulsary Course Course Name English Communication	ther Program (Any One)	Course Type DSE Course	Does the faculties as far a Course Code BSCPCEMDSE501 BSCPCEMDSE502 BSCPCEMDSE601 BSCPCEMDSE602 Course Code AECCE201	os practicable) Course Details DSEC-3(1) DSEC-3(2) Course	L-T-P 5-1-0 5-1-0 5-1-0 5-1-0 5-1-0	Course Credit 6 6	NA Sem	Practical	Marks Theoretical 15 15 15 15 15 Theoretical 15 Marks Theoretical 15	Practical	E Marks Theoretical 35 35 35 35 35 5 Marks Theoretical 35	Total Marks 50 50	NA
Discipline-3 CHEMISTRY Communication Courses offered as Ability E	Semester V VI Conhancement Con	red by this Discipline (when treated as Discipline 3 for oth Course Name Applied Chemistry Quantum Chemistry, Spectroscopy & Photochemistry Chemistry of Bio-molecules & Chemotherapy Advanced Inorganic Chemistry pulsary Courses Course Name	ther Program (Any One)	Course Type DSE Course	oss the faculties as far a Course Code BSCPCEMDSE501 BSCPCEMDSE502 BSCPCEMDSE601 BSCPCEMDSE602 Course Code	os practicable) Course Details DSEC-3(1) DSEC-3(2) Course	L-T-P 5-1-0 5-1-0 5-1-0 5-1-0 L-T-P	Course Credit 6 6	NA Sem	Practical	Marks Theoretical 15 15 15 15 15 Theoretical Marks Theoretical	Practical	E Marks Theoretical 35 35 35 35 35 Theoretical	Total Marks 50 50	