DESHABANDHU MAHAVIDYALAYA, CHITTARANJAN

DEPARTMENT OF CHEMISTRY

Curriculum

(with effect from Academic Session 2023-24)

KA	AZI NAZRUL	UNIVERSITY		FACULTY OF SCIENCE, TECHNOLOGY & VOCATIONAL STUDIES		egree /4-Year UC ear UG Degree (He Research)				WITH EF	FECT FROM	THE ACADEM	IC SESSION:	2023-24		
Abbrevia			er.								CA M	arks	ESE	Marks		
ted Degree	Discipline	Degree Programme	Semest	Course Name	Course Type	Course Code	Course Details	L - T - P	Course Credit	Sem Credit	Practical	Theoretical	Practical	Theoretical	Total Marks	Sem Marks
				General Chemistry - I	MAJOR	BSCCEMMJ101	MJC-1	3 - 0 - 4	5		30	15	20	35	100	-
				Choose from the Pool of Minor Courses offered in 1st Semester by other Disciplines within the faculty	MINOR	See Pool	MNC-1	See Pool	5			See P	ool		100	
			I	Choose from the Pool of Multidisciplinary Courses offered in 1st Semester across the faculties	MD	See Pool	MDC-1	2 - 1 - 0	3	20		15		35	50	350
				English/MIL Communication	AE	See Pool	AEC-1	4 - 0 - 0	4	-		15		35	50	_
				Industrial Chemistry	SE	BSCCEMSE101	SEC-1	2 - 1 - 0	3			15		35	50	
				General Chemistry - II	MAJOR	BSCCEMMJ201	MJC-2	3 - 0 - 4	5	Г Т	30	15	20	35	100	
			Choose from the Pool of Minor Courses offered in 2nd Semester by other Disciplines within the faculty II Choose from the Pool of Multidisciplinary Courses offered in 2nd Semester across the faculties		Corresponding Course Code of Minor opted in 1st Semester	MNC-2	See Pool	5	20		See P	ool		100	350	
			п		er MD	See Pool	MDC-2	2 - 1 - 0	3	20		15		35	50	
				Environment Studies	VA	VA201	VAC-1	4 - 0 - 0	4			15		35	50	-
				Pharmaceutical Chemistry	SE	BSCCEMSE201	SEC-2	2 - 1- 0	3	1		15		35	50	-
				Student exiting the programmes after securing 40 credits	will be awarded UG Certificate				a 4 credits in	work based voo	entional courses /	summer internsh	in during 1st 1			1
				Vacational Course	VC	VC201	VCC-1		- T	r		summer mernsn				<u> </u>
			П	Summer Internship Any One	SI	SI201	SIC-1	0 - 0 - 8	4	24	30		20		50	400
				Inorganic Chemistry-I	MAJOR	BSCCEMMJ301	MJC-3	3 - 0 - 4	5	<u>г</u> т	30	15	20	35	100	
				Physical Chemistry-I	MAJOR	BSCCEMMJ302	MJC-4	3 - 0 - 4	5	1 1	30	15	20	35	100	-
		3-year UG	ш	Choose from the Pool of Minor Courses offered in 3rd Semester by other Disciplines within the faculty		See Pool	MNC-3	See Pool	5	22		See P			100	400
		Degree		Choose from the Pool of Multidisciplinary Courses offered in 3rd Semeste across the faculties	r MD	See Pool	MDC-3	2 - 1 - 0	3			15		35	50	-
				English Communication	AE	See Pool	AEC-2	4 - 0 - 0	4			15		35	50	-
					·	• 			<u> </u>	· · · ·		<u> </u>				
				Organic Chemistry-I	MAJOR	BSCCEMMJ401	MJC-5	3 - 0 - 4	5		30	15	20	35	100	
				Physical Chemistry-II	MAJOR	BSCCEMMJ402	MJC-6	3 - 0 - 4	5	4 4	30	15	20	35	100	_
			IV	Choose from the Pool of Minor Courses offered in 4th Semester by other Disciplines within the faculty	MINOR	See Pool	MNC-4	See Pool	5	22		See P	ool		100	400
				Fuel Chemistry	SE	BSCCEMSE401	SEC-3	2 - 1 - 0	3	1 1		15		35	50	_
				Choose from the Pool of Value Added Course offered in 4th Semester	VA	See Pool	VAC-2	See Pool	4			15		35	50	
				Student exiting the programmes after securing 84	credits will be awarded UG Di	oloma in the relevant Discip	ine/Subject provide	d they secure fol	llowing 4 cre	dits in work base	d vocational cou	rses / summer in	ternship during	g 2nd year		
			IV	Vocational Course Any One Any One	VC SI	VC401 SI401	VCD-1 SID-1	0 - 0 - 8	4	26	30		20		50	450
				Inorganic Chemistry-II	MAJOR	BSCCEMMJ501	MJC-7	3 - 0 - 4	5	4	30	15	20	35	100	_
BSC	Chemistry		v	Organic Chemistry-II	MAJOR	BSCCEMMJ502	MJC-8	3 - 0 - 4	5	20	30	15	20	35 35	100 100	400
1			v	Physical Chemistry-III Choose from the Pool of Minor Courses offered in 5th Semester by other	MAJOR	BSCCEMMJ503	MJC-9	3 - 0 - 4	5	20	30	15	20	55	100	400

]	Inorganic Chemistry-III	MAJOR	BSCCEMMJ601	MJC-10	3 - 0 - 4	5		30	15	20	35	100	
]	Inorganic Chemistry-IV	MAJOR	BSCCEMMJ602	MJC-11	3 - 0 - 4	5		30	15	20	35	100	
	VI	Organic Chemistry-III	MAJOR	BSCCEMMJ603	MJC-12	3 - 0 - 4	5	22	30	15	20	35	100	4
	1	Physical Chemistry-IV	MAJOR	BSCCEMMJ604	MJC-13	3 - 0 - 4	5		30	15	20	35	100	
	:	Summer Internship	SI	SI601	SIMC-1	0 - 0 - 4	2		30		20		50	
		Total Credit and Marks		TOTAL CF	REDIT			126		то	OTAL MARKS			235
	Students	s who want to undertake 3-year UG programme will be awarded UG Degr	ee in the relevant Disciplin	e / Subject upon securing	126 credits									
			•											
]	Inorganic Chemistry-V	MAJOR	BSCCEMMJ701	MJC-14	3 - 0 - 4	5		30	15	20	35	100	
		Organic Chemistry-IV	MAJOR	BSCCEMMJ702	MJC-15	3 - 0 - 4	5		30	15	20	35	100	
		Organic Chemistry-V	MAJOR	BSCCEMMJ703	MJC-16	3 - 0 - 4	5		30	15	20	35	100	1
	VII	Physical Chemistry-V	MAJOR	BSCCEMMJ704	MJC-17	3 - 0 - 4	5	25	30	15	20	35	100	500
	-	Choose from the Pool of Minor Courses offered in 7th Semester by other												
4 - Year UG		Disciplines within the faculty	MINOR	See Pool	MNC-6	See Pool	5			See P	Pool		100	
Degree														
(Honours)		Advanced General Chemistry-I	MAJOR	BSCCEMMJ801	MJC-18	3 - 0 - 4	5		30	15	20	35	100	
		Advanced Inorganic Chemistry-I	MAJOR	BSCCEMMJ802	MJC-19	2 - 0 - 4	4		30	15	20	35	100	
		Advanced Organic Chemistry-I	MAJOR	BSCCEMMJ803	MJC-20	2 - 0 - 4	4		30	15	20	35	100	-
	VIII	Advanced Physical Chemistry-I	MAJOR	BSCCEMMJ804	MJC-21	2 - 0 - 4	4	22	30	15	20	35	100	500
	-	Choose from the Pool of Minor Courses offered in 8th Semester by other	MAJOR	BSCCLWW13004	14130-21	2-0-4			50	15	20	55	100	
		Disciplines within the faculty	MINOR	See Pool	MNC-7	See Pool	5			See P	Pool		100	
		Total Credit and Marks		TOTAL CF	REDIT			173		то	OTAL MARKS			335
		Students who want to undertake 4	-year UG Honours program	m will be awarded UG D	egree (Honours) i	n the relevant Dis	cipline / Su	bject providec	l they secure 173	credits				
	1	Inorganic Chemistry-V	MAJOR	BSCCEMMJ701	MJC-14	3 - 0 - 4	5		30	15	20	35	100	1
	-	Organic Chemistry-IV	MAJOR	BSCCEMMJ702	MJC-15	3 - 0 - 4	5		30	15	20	35	100	-
	_	Organic Chemistry-V	MAJOR	BSCCEMMJ702 BSCCEMMJ703	MJC-16	3 - 0 - 4	5		30	15	20	35	100	-
	VII	Physical Chemistry-V	MAJOR	BSCCEMMJ703 BSCCEMMJ704	MJC-10 MJC-17	3 - 0 - 4	5	25	30	15	20	35	100	500
			WIAJOR	DSCCLIVIIVI5/04	IVIJ C-1 /				50	15	20	55	100	-
4 - Year UG Degree (Honours	•	Choose from the Pool of Minor Courses offered in 7th Semester by other Disciplines within the faculty	MINOR	See Pool	MNC-6	See Pool	5			See P	Pool		100	
Degree (Honours	•		MINOR	See Pool	MNC-6	See Pool	5			See P	Pool		100	
Degree (Honours with]		MINOR	See Pool BSCCEMMJ801	MNC-6 MJC-18	See Pool 3 - 0 - 4	5		30	See P	20	35	100	
Degree (Honours)] 	Disciplines within the faculty					-		30			35 70		-
Degree (Honours with	- - - - 	Disciplines within the faculty Advanced General Chemistry-I	MAJOR	BSCCEMMJ801	MJC-18	3 - 0 - 4	5	22	30	15			100	500
Degree (Honours with	vIII	Disciplines within the faculty Advanced General Chemistry-I Research Methodology and Ethics	MAJOR RP	BSCCEMMJ801 BSCCEMRP801	MJC-18 RPC-1	3 - 0 - 4 4 - 0 - 0	5 4	22		15	20 80		100 100	500
Degree (Honours with	v III	Disciplines within the faculty Advanced General Chemistry-I Research Methodology and Ethics Research Project / Dissertation choose from the Pool of Minor Courses offered in 8th Semester by other	MAJOR RP RP	BSCCEMMJ801 BSCCEMRP801 BSCCEMRP802	MJC-18 RPC-1 RPC-2 MNC-7	3 - 0 - 4 4 - 0 - 0 0 - 0 - 16	5 4 8	22		15 30 See P	20 80	70	100 100 200	500
Degree (Honours with	v III	Disciplines within the faculty Advanced General Chemistry-I Research Methodology and Ethics Research Project / Dissertation choose from the Pool of Minor Courses offered in 8th Semester by other Disciplines within the faculty Total Credit and Marks	MAJOR RP RP MINOR	BSCCEMMJ801 BSCCEMRP801 BSCCEMRP802 Sce Pool TOTAL CF	MJC-18 RPC-1 RPC-2 MNC-7 REDIT	3 - 0 - 4 4 - 0 - 0 0 - 0 - 16 See Pool	5 4 8 5	173	120	15 30 See P TO	20 80 Pool	70	100 100 200	
Degree (Honours with	v III	Disciplines within the faculty Advanced General Chemistry-I Research Methodology and Ethics Research Project / Dissertation choose from the Pool of Minor Courses offered in 8th Semester by other Disciplines within the faculty	MAJOR RP RP MINOR	BSCCEMMJ801 BSCCEMRP801 BSCCEMRP802 Sce Pool TOTAL CF	MJC-18 RPC-1 RPC-2 MNC-7 REDIT	3 - 0 - 4 4 - 0 - 0 0 - 0 - 16 See Pool	5 4 8 5	173	120	15 30 See P TO	20 80 Pool	70	100 100 200	
Degree (Honours with Research)	VIII	Disciplines within the faculty Advanced General Chemistry-I Research Methodology and Ethics Research Project / Dissertation choose from the Pool of Minor Courses offered in 8th Semester by other Disciplines within the faculty Total Credit and Marks Students who want to undertake 4-year UG Hon	MAJOR RP RP MINOR ours with Research progra	BSCCEMMJ801 BSCCEMRP801 BSCCEMRP802 See Pool TOTAL CF m will be awarded UG D	MJC-18 RPC-1 RPC-2 MNC-7 REDIT egree (Honours wi	3 - 0 - 4 4 - 0 - 0 0 - 0 - 16 See Pool th Research) in th	5 4 8 5	173 Discipline / Su	120	15 30 See P TO	20 80 Pool DTAL MARKS credits	70	100 100 200 100	335
Degree (Honours with Research) MJ-= Major;MJC-=	VIII 1	Disciplines within the faculty Advanced General Chemistry-I Research Methodology and Ethics Research Project / Dissertation choose from the Pool of Minor Courses offered in 8th Semester by other Disciplines within the faculty Total Credit and Marks Students who want to undertake 4-year UG Hon Course;MN= Minor;MNC= Minor Course; AE= Ability Enhancement; A	MAJOR RP RP MINOR ours with Research progra	BSCCEMMJ801 BSCCEMRP801 BSCCEMRP802 See Pool TOTAL CF m will be awarded UG D Course; SE= Skill Enha	MJC-18 RPC-1 RPC-2 MNC-7 REDIT egree (Honours wi	3 - 0 - 4 4 - 0 - 0 0 - 0 - 16 See Pool th Research) in the kill Enhancemen	5 4 5 5 ne relevant t Course; N	173 Discipline / Su 1D= Multidisc	120 Ibject provided th	15 30 See P TO tey secure 173 (Multidisciplin:	20 80 Pool DTAL MARKS credits ary Course; SI	- Summer Inte	100 100 200 100	335 Summer
Degree (Honours with Research) MJ-= Major;MJC-=	VIII 1	Disciplines within the faculty Advanced General Chemistry-I Research Methodology and Ethics Research Project / Dissertation choose from the Pool of Minor Courses offered in 8th Semester by other Disciplines within the faculty Total Credit and Marks Students who want to undertake 4-year UG Hon	MAJOR RP RP MINOR ours with Research progra EC= Ability Enhancement Research Project ;RPC= R	BSCCEMMJ801 BSCCEMRP801 BSCCEMRP802 See Pool TOTAL CF m will be awarded UG D Course; SE= Skill Enha	MJC-18 RPC-1 RPC-2 MNC-7 REDIT egree (Honours wi uncement; SEC= S VA= Value Added	3 - 0 - 4 4 - 0 - 0 0 - 0 - 16 See Pool th Research) in the kill Enhancemen ;VAC= Value Ad	5 4 8 5 he relevant t Course; M	173 Discipline / Su 1D= Multidisc e; VC= Vocati	120 Ibject provided th iplinary ; MDC= onal Course; VCC	15 30 See P TO tey secure 173 (Multidisciplin:	20 80 Pool DTAL MARKS credits ary Course; SI	- Summer Inte	100 100 200 100	335(Summer
Degree (Honours with Research) MJ.= Major;MJC.=	VIII 1	Disciplines within the faculty Advanced General Chemistry-I Research Methodology and Ethics Research Project / Dissertation choose from the Pool of Minor Courses offered in 8th Semester by other Disciplines within the faculty Total Credit and Marks Students who want to undertake 4-year UG Hon Course;MN= Minor;MNC= Minor Course; AE= Ability Enhancement; A nship for Diploma; SIMC - Summer Internship Mandatory Course; RP=	MAJOR RP RP MINOR ours with Research progra EC= Ability Enhancement Research Project ;RPC= R	BSCCEMMJ801 BSCCEMRP801 BSCCEMRP802 See Pool TOTAL CF m will be awarded UG D Course; SE= Skill Enha	MJC-18 RPC-1 RPC-2 MNC-7 REDIT egree (Honours wi uncement; SEC= S VA= Value Added	3 - 0 - 4 4 - 0 - 0 0 - 0 - 16 See Pool th Research) in the kill Enhancemen ;VAC= Value Ad	5 4 8 5 he relevant t Course; M	173 Discipline / Su 1D= Multidisc e; VC= Vocati	120 Ibject provided th iplinary ; MDC= onal Course; VCC	15 30 See P TO tey secure 173 (Multidisciplin:	20 80 Pool DTAL MARKS credits ary Course; SI	- Summer Inte	100 100 200 100	335 Summer
Degree (Honours with Research) MJ.= Major;MJC-=	VIII 1	Disciplines within the faculty Advanced General Chemistry-I Research Methodology and Ethics Research Project / Dissertation choose from the Pool of Minor Courses offered in 8th Semester by other Disciplines within the faculty Total Credit and Marks Students who want to undertake 4-year UG Hon Course;MN= Minor;MNC= Minor Course; AE= Ability Enhancement; A nship for Diploma; SIMC - Summer Internship Mandatory Course; RP=	MAJOR RP RP MINOR ours with Research progra EC= Ability Enhancement Research Project ;RPC= R	BSCCEMMJ801 BSCCEMRP801 BSCCEMRP802 See Pool TOTAL CF m will be awarded UG D Course; SE= Skill Enha	MJC-18 RPC-1 RPC-2 MNC-7 REDIT egree (Honours wi uncement; SEC= S VA= Value Added	3 - 0 - 4 4 - 0 - 0 0 - 0 - 16 See Pool th Research) in the kill Enhancemen ;VAC= Value Ad	5 4 8 5 he relevant t Course; M	173 Discipline / Su 1D= Multidisc e; VC= Vocati	120 Ibject provided th iplinary ; MDC= onal Course; VCC	15 30 See P TO tey secure 173 (Multidisciplin:	20 80 Pool DTAL MARKS credits ary Course; SI	- Summer Inte	100 100 200 100	335 Summe
Degree (Honours with Research) MJ-= Major;MJC-= ertificate; SID:Summ	VIII I	Disciplines within the faculty Advanced General Chemistry-I Research Methodology and Ethics Research Project / Dissertation choose from the Pool of Minor Courses offered in 8th Semester by other Disciplines within the faculty Total Credit and Marks Students who want to undertake 4-year UG Hon Course;MN= Minor;MNC= Minor Course; AE= Ability Enhancement; A nship for Diploma; SIMC - Summer Internship Mandatory Course; RP= Diploma; CA= Continuous Assessment, ESE= E	MAJOR RP RP MINOR ours with Research progra EC= Ability Enhancement Research Project ;RPC= R nd Semester Examination,	BSCCEMMJ801 BSCCEMRP801 BSCCEMRP802 See Pool TOTAL CF m will be awarded UG D Course; SE= Skill Enha esearch Project Course; L= Lecture Hour; T= T	MJC-18 RPC-1 RPC-2 MNC-7 REDIT egree (Honours wi uncement; SEC= S VA= Value Added itorial Hour and F	3 - 0 - 4 4 - 0 - 0 0 - 0 - 16 See Pool th Research) in th kill Enhancemen ;VAC= Value Ad = Practical Hour	5 4 8 5 t Course; M ded Course / Field Wor	173 Discipline / Su 1D= Multidisc e; VC= Vocati rk and NA= N	120 Ibject provided th iplinary ; MDC= onal Course; VCc ot Applicable	15 30 See P TO ney secure 173 (Multidisciplin: C= Vocational	20 80 Pool DTAL MARKS credits ary Course; SI Course for Cer	- Summer Inte tificate; VCD=	100 100 200 100	335 Summe Course f
Degree (Honours with Research)	VIII Major Her Inter	Disciplines within the faculty Advanced General Chemistry-I Research Methodology and Ethics Research Project / Dissertation choose from the Pool of Minor Courses offered in 8th Semester by other Disciplines within the faculty Total Credit and Marks Students who want to undertake 4-year UG Hon Course;MN= Minor;MNC= Minor Course; AE= Ability Enhancement; A nship for Diploma; SIMC - Summer Internship Mandatory Course; RP= Diploma; CA= Continuous Assessment, ESE= E ticular UG Course will choose from the Pool of Minor Courses offered by	MAJOR RP RP MINOR ours with Research progra EC= Ability Enhancement Research Project ;RPC= R nd Semester Examination, disciplines other than the r	BSCCEMMJ801 BSCCEMRP801 BSCCEMRP802 See Pool TOTAL CF m will be awarded UG D Course; SE= Skill Enha esearch Project Course; L= Lecture Hour; T= Tu	MJC-18 RPC-1 RPC-2 MNC-7 REDIT egree (Honours wi ancement; SEC= S VA= Value Added itorial Hour and F the student within	3 - 0 - 4 4 - 0 - 0 0 - 0 - 16 See Pool th Research) in th kill Enhancemen ;VAC= Value Ad = Practical Hour	5 4 8 5 • relevant t Course; M ded Course / Field Woo	173 Discipline / Su 1D= Multidisc e; VC= Vocati rk and NA= N	120 120 15 Jubject provided th 16 Jubject provided th 17 Jubject provided th 17 Jubject provided th 18 Jubject provided th 19 Jubject provided th 19 Jubject provided th 19 Jubject provided th 10 Jubject provided	15 30 See P TO ney secure 173 (Multidisciplin: C= Vocational	20 80 Pool DTAL MARKS credits ary Course; SI Course for Cer	- Summer Inte tificate; VCD=	100 100 200 100	335 Summer Course fe
Degree (Honours with Research)	VIII Major Her Inter	Disciplines within the faculty Advanced General Chemistry-I Research Methodology and Ethics Research Project / Dissertation choose from the Pool of Minor Courses offered in 8th Semester by other Disciplines within the faculty Total Credit and Marks Students who want to undertake 4-year UG Hon Course;MN= Minor;MNC= Minor Course; AE= Ability Enhancement; A nship for Diploma; SIMC - Summer Internship Mandatory Course; RP= Diploma; CA= Continuous Assessment, ESE= E	MAJOR RP RP MINOR ours with Research progra EC= Ability Enhancement Research Project ;RPC= R nd Semester Examination, disciplines other than the r	BSCCEMMJ801 BSCCEMRP801 BSCCEMRP802 See Pool TOTAL CF m will be awarded UG D Course; SE= Skill Enha esearch Project Course; L= Lecture Hour; T= Tu	MJC-18 RPC-1 RPC-2 MNC-7 REDIT egree (Honours wi ancement; SEC= S VA= Value Added itorial Hour and F the student within	3 - 0 - 4 4 - 0 - 0 0 - 0 - 16 See Pool th Research) in th kill Enhancemen ;VAC= Value Ad = Practical Hour	5 4 8 5 • relevant t Course; M ded Course / Field Woo	173 Discipline / Su 1D= Multidisc e; VC= Vocati rk and NA= N	120 120 15 Jubject provided th 16 Jubject provided th 17 Jubject provided th 17 Jubject provided th 18 Jubject provided th 19 Jubject provided th 19 Jubject provided th 19 Jubject provided th 10 Jubject provided	15 30 See P TO ney secure 173 (Multidisciplin: C= Vocational	20 80 Pool DTAL MARKS credits ary Course; SI Course for Cer	- Summer Inte tificate; VCD=	100 100 200 100	335 Summer Course fe

Semesterwise Pool of Minor Courses offered by Chemistry for other Disciplines within the Faculty

Disciplin										Sem	CA	Marks	ESE	Marks		
e	Semester	Course Name			Course Type	Course Code	Course Details	L - T - P	Course Credit	Credit	Practical	Theoretical	Practical	Theoretical	Total Marks	Sem Marks
	I	General Chemi	strv - I			BSCCEMMN101	MNC-1	3 - 0 - 4	5		30	15	20	35	100	
	II	General Chemi			1	BSCCEMMN201	MNC-2	3 - 0 - 4	5	Ì	30	15	20	35	100	
~	III	Inorganic & Or	-	hemistry	1	BSCCEMMN301	MNC-3	3 - 0 - 4	5	Ì	30	15	20	35	100	
Chemistry	IV	Organic & Phy	~			BSCCEMMN401	MNC-4	3 - 0 - 4	5	İ	30	15	20	35	100	
nem		Inorganic & Ph			MINOR	BSCCEMMN501	MNC-5	3 - 0 - 4	5	NA	30	15	20	35	100	NA
Ċ	VI	NA					NA		1				NA			
	VII	Advanced Phys	sical Ch	emistry		BSCCEMMN701	MNC-6	3 - 0 - 4	5	İ	30	15	20	35	100	
	VIII	Advanced Inor	ganic &	Organic Chemistry		BSCCEMMN801	MNC-7	3 - 0 - 4	5	İ	30	15	20	35	100	
		•					•				•	•	•			
Semeste	er wise Pool	<u>l of Multidis</u>	ciplin	ary Courses offered by Chemistry	for other Disciplines ac	ross the Faculties										
Disciplin	Semester	Course Name			Course Type	Course Code	Course Details	L - T - P	Course Credit	Sem		Marks		Marks	Total Marks	Sem Marks
e					course Type		course betails		course crean	Credit	Practical	Theoretical	Practical	Theoretical	1 our munis	
Chemistr y	п	Chemical Scier	ice		MD	MDC213		2 -1 - 0	3	NA		15		35	50	NA
·		1			4	•	<u>.</u>		- <u>I</u>	<u>.</u>	Į	1	4	1	łł	
Pool of Co	mmunication	n Courses offere	d as Ab	bility Enhancement Courses in Semester-I												
				•						Sem	CA	Marks	FSF	Marks		
Dis	cipline	Semester		Course Name	Course Type	Course Code	Course Details	L - T - P	Course Credit	Credit					Total Marks	Sem Marks
										Crean	Practical	Theoretical	Practical	Theoretical		
			One	English Communication	_	AECE101										
	ish/MIL	I		Bengali Communication	AE	AECB101	AEC-1	4 - 0 - 0	4	NA		15		35	50	NA
Comm	nunication		Any	Hindi Communication	-	AECH101	_									
				Urdu Communication		AECU101										
						•				I	1				I	
Pool of Vs	alue Added - C	ourses offered	in Sem	ester-IV for all Disciplines across all Facult	ies	• •										
			in Sem	ester-IV for all Disciplines across all Facult						Sem	CA	Marks	ESE	Marks		
	alue Added C	Courses offered Semester	in Sem	ester-IV for all Disciplines across all Facult Course Name	ies Course Type	Course Code	Course Details	L - T - P	Course Credit	Sem Credit	CA Practical	Marks Theoretical	ESE Practical	Marks Theoretical	Total Marks	Sem Marks
			in Sem	•		Course Code VAC401	Course Details	L - T - P	Course Credit					Marks Theoretical	Total Marks	Sem Marks
			in Semo	Course Name Yoga And Health Social Values and Ethics		VAC401 VAC402	Course Details	L - T - P	Course Credit						Total Marks	Sem Marks
				Course Name Yoga And Health		VAC401	Course Details	L - T - P	Course Credit						- Total Marks	Sem Marks
Dis	cipline	Semester	One	Course Name Yoga And Health Social Values and Ethics Digital and Technological Solutions Understanding India	Course Type	VAC401 VAC402	-			Credit		Theoretical		Theoretical		
Dis			One	Course Name Yoga And Health Social Values and Ethics Digital and Technological Solutions Understanding India Sustainable Development: Issues and		VAC401 VAC402 VAC403 VAC404	Course Details	L - T - P 4 - 0 - 0	Course Credit						Total Marks	Sem Marks NA
Dis	cipline	Semester		Course Name Yoga And Health Social Values and Ethics Digital and Technological Solutions Understanding India Sustainable Development: Issues and Challenges	Course Type	VAC401 VAC402 VAC403 VAC404 VAC404 VAC405	-			Credit		Theoretical		Theoretical		
Dis	cipline	Semester	One	Course Name Yoga And Health Social Values and Ethics Digital and Technological Solutions Understanding India Sustainable Development: Issues and Challenges Goods and Services Tax	Course Type	VAC401 VAC402 VAC403 VAC404 VAC404 VAC405 VAC406	-			Credit		Theoretical		Theoretical		
Dis	cipline	Semester	One	Course Name Yoga And Health Social Values and Ethics Digital and Technological Solutions Understanding India Sustainable Development: Issues and Challenges	Course Type	VAC401 VAC402 VAC403 VAC404 VAC404 VAC405	-			Credit		Theoretical		Theoretical		
Dis	cipline	Semester	One	Course Name Yoga And Health Social Values and Ethics Digital and Technological Solutions Understanding India Sustainable Development: Issues and Challenges Goods and Services Tax	Course Type	VAC401 VAC402 VAC403 VAC404 VAC404 VAC405 VAC406	-			Credit		Theoretical		Theoretical		
Dis	cipline NA	Semester	Any One	Course Name Yoga And Health Social Values and Ethics Digital and Technological Solutions Understanding India Sustainable Development: Issues and Challenges Goods and Services Tax Basics of Indian Constitution	Course Type VA	VAC401 VAC402 VAC403 VAC404 VAC404 VAC405 VAC406	-			Credit		Theoretical		Theoretical		
Dis Semester	cipline NA wise Pool of M	Semester IV	Any One	Course Name Yoga And Health Social Values and Ethics Digital and Technological Solutions Understanding India Sustainable Development: Issues and Challenges Goods and Services Tax Basics of Indian Constitution sets offered for all Disciplines across the Factors	Course Type VA VA	VAC401 VAC402 VAC403 VAC404 VAC404 VAC405 VAC406 VAC407	VAC-2	4 - 0 - 0	4	Credit NA	Practical	Theoretical	Practical	Theoretical	50	NA
Dis Semester	cipline NA	Semester	Any One	Course Name Yoga And Health Social Values and Ethics Digital and Technological Solutions Understanding India Sustainable Development: Issues and Challenges Goods and Services Tax Basics of Indian Constitution	Course Type VA	VAC401 VAC402 VAC403 VAC404 VAC404 VAC405 VAC406	-			Credit	Practical	Theoretical 15 Marks	Practical	Theoretical 35 Marks		
Dis Semester	cipline NA wise Pool of M	Semester IV	Any One	Course Name Yoga And Health Social Values and Ethics Digital and Technological Solutions Understanding India Sustainable Development: Issues and Challenges Goods and Services Tax Basics of Indian Constitution sets offered for all Disciplines across the Factors	Course Type VA VA	VAC401 VAC402 VAC403 VAC404 VAC404 VAC405 VAC406 VAC407	VAC-2	4 - 0 - 0	4	Credit NA Sem	Practical	Theoretical 15	Practical	Theoretical 35	50	NA
Dis Semester v Offered B	cipline NA wise Pool of M	Semester IV	Any One	Course Name Yoga And Health Social Values and Ethics Digital and Technological Solutions Understanding India Sustainable Development: Issues and Challenges Goods and Services Tax Basics of Indian Constitution ess offered for all Disciplines across the Face Course Name	Course Type VA VA	VAC401 VAC402 VAC403 VAC404 VAC405 VAC406 VAC407 Course Code	VAC-2	4 - 0 - 0	4	Credit NA Sem	Practical	Theoretical 15 Marks	Practical	Theoretical 35 Marks	50	NA
Dis Semester v Offered B Physics	cipline NA wise Pool of M y Discipline	Semester IV	Any One	Course Name Yoga And Health Social Values and Ethics Digital and Technological Solutions Understanding India Sustainable Development: Issues and Challenges Goods and Services Tax Basics of Indian Constitution ess offered for all Disciplines across the Fact Course Name Physical Science	Course Type VA VA	VAC401 VAC402 VAC403 VAC404 VAC405 VAC406 VAC406 VAC407 Course Code MDC101 MDC102 MDC103	VAC-2	4 - 0 - 0	4	Credit NA Sem	Practical	Theoretical 15 Marks	Practical	Theoretical 35 Marks	50	NA
Dis Semester v Offered B Physics BBA Political So Geography	cipline NA wise Pool of M y Discipline	Semester IV	Any One	Course Name Yoga And Health Social Values and Ethics Digital and Technological Solutions Understanding India Sustainable Development: Issues and Challenges Goods and Services Tax Basics of Indian Constitution ses offered for all Disciplines across the Fact Course Name Physical Science E-Commerce	Course Type VA VA	VAC401 VAC402 VAC403 VAC403 VAC404 VAC405 VAC406 VAC407 Course Code MDC101 MDC102	VAC-2	4 - 0 - 0	4	Credit NA Sem	Practical	Theoretical 15 Marks	Practical	Theoretical 35 Marks	50	NA
Dis Semester v Offered B Physics BBA Political Sc Geography Physical Ed	cipline NA wise Pool of M y Discipline	Semester IV	Any One	Course Name Yoga And Health Social Values and Ethics Digital and Technological Solutions Understanding India Sustainable Development: Issues and Challenges Goods and Services Tax Basics of Indian Constitution ses offered for all Disciplines across the Face Course Name Physical Science E-Commerce Human Rights Disaster Management Fitness and Wellness	Course Type VA VA	VAC401 VAC402 VAC403 VAC404 VAC405 VAC406 VAC406 VAC407 Course Code MDC101 MDC102 MDC103 MDC104 MDC105	VAC-2	4 - 0 - 0	4	Credit NA Sem	Practical	Theoretical 15 Marks	Practical	Theoretical 35 Marks	50	NA
Dis Semester v Offered B Physics BBA Political Sc Geography Physical E. Zoology	cipline NA wise Pool of M y Discipline	Semester IV	Any One	Course Name Yoga And Health Social Values and Ethics Digital and Technological Solutions Understanding India Sustainable Development: Issues and Challenges Goods and Services Tax Basics of Indian Constitution ses offered for all Disciplines across the Fact Course Name Physical Science E-Commerce Human Rights Disaster Management Fitness and Wellness Application of Bio-Science	Course Type VA VA	VAC401 VAC402 VAC403 VAC404 VAC405 VAC406 VAC406 VAC407 Course Code MDC101 MDC101 MDC102 MDC103 MDC104 MDC105 MDC106	VAC-2	4 - 0 - 0	4	Credit NA Sem	Practical	Theoretical 15 Marks	Practical	Theoretical 35 Marks	50	NA
Dis Semester v Offered B Physics BBA Political So Geography Physical Er Zoology English	cipline NA wise Pool of M y Discipline cience ducation	Semester IV	Any One	Course Name Yoga And Health Social Values and Ethics Digital and Technological Solutions Understanding India Sustainable Development: Issues and Challenges Goods and Services Tax Basics of Indian Constitution ses offered for all Disciplines across the Fact Course Name Physical Science E-Commerce Human Rights Disaster Management Fitness and Wellness Application of Bio-Science Film Appreciation	Course Type VA VA	VAC401 VAC402 VAC403 VAC404 VAC405 VAC405 VAC406 VAC407 VAC407 Course Code MDC101 MDC101 MDC102 MDC103 MDC104 MDC105 MDC106 MDC107	VAC-2	4 - 0 - 0	4	Credit NA Sem	Practical	Theoretical 15 Marks	Practical	Theoretical 35 Marks	50	NA
Dis Semester v Offered B Physics BBA Political Sc Geography Physical E. Zoology	cipline NA wise Pool of M y Discipline cience ducation	Semester IV	Any One	Course Name Yoga And Health Social Values and Ethics Digital and Technological Solutions Understanding India Sustainable Development: Issues and Challenges Goods and Services Tax Basics of Indian Constitution ess offered for all Disciplines across the Fact Course Name Physical Science E-Commerce Human Rights Disaster Management Fitness and Wellness Application of Bio-Science Film Appreciation Accounting for All	Course Type VA VA	VAC401 VAC402 VAC403 VAC404 VAC405 VAC406 VAC406 VAC407 Course Code MDC101 MDC101 MDC102 MDC103 MDC104 MDC105 MDC106	VAC-2	4 - 0 - 0	4	Credit NA Sem	Practical	Theoretical 15 Marks	Practical	Theoretical 35 Marks	50	NA
Dis Semester v Offered B Physics BBA Political So Geography Physical Er Zoology English	cipline NA wise Pool of M y Discipline cience ducation	Semester IV	Any One	Course Name Yoga And Health Social Values and Ethics Digital and Technological Solutions Understanding India Sustainable Development: Issues and Challenges Goods and Services Tax Basics of Indian Constitution ses offered for all Disciplines across the Face Course Name Physical Science E-Commerce Human Rights Disaster Management Fitness and Wellness Application of Bio-Science Film Appreciation Accounting for All Exploring Early Medieval Bengal: C.7th	Course Type VA VA	VAC401 VAC402 VAC403 VAC404 VAC405 VAC405 VAC406 VAC407 VAC407 Course Code MDC101 MDC101 MDC102 MDC103 MDC104 MDC105 MDC106 MDC107	VAC-2	4 - 0 - 0	4	Credit NA Sem	Practical	Theoretical 15 Marks	Practical	Theoretical 35 Marks	50	NA
Dis Semester v Offered B Physics BBA Political Sc Geography Physical E- Zoology English Commerce	cipline NA wise Pool of M y Discipline cience ducation	Semester IV	Any One	Course Name Yoga And Health Social Values and Ethics Digital and Technological Solutions Understanding India Sustainable Development: Issues and Challenges Goods and Services Tax Basics of Indian Constitution ess offered for all Disciplines across the Fact Course Name Physical Science E-Commerce Human Rights Disaster Management Fitness and Wellness Application of Bio-Science Film Appreciation Accounting for All	Course Type VA VA	VAC401 VAC402 VAC403 VAC404 VAC405 VAC406 VAC406 VAC407 Course Code MDC101 MDC101 MDC102 MDC103 MDC104 MDC105 MDC106 MDC107 MDC108	VAC-2	4 - 0 - 0	4	Credit NA Sem	Practical	Theoretical 15 Marks	Practical	Theoretical 35 Marks	50	NA

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Economics		Any	Money and Banking		MDC111										
Hindi			Patrakarita		MDC112										
Mathematics			Business Mathematics		MDC113										
Sociology			Indian Society		MDC114										
Philosophy			Yoga for Daily Life		MDC115										
Electronics			Electronic Measurements		MDC116										
Computer Science			Information and Communication		MDC117										
-			Technology												
Botany			Introduction to Local Flora		MDC118										
Computer Applications			Information and Media Literacy		MDC119										
Commerce			Personal Finance		MDC120										
									•						
Mathematics			Mathematical Science		MDC201										
BBA			Business Environment		MDC202										
Statistics			Basic Statistics		MDC203										
History			Understanding Medieval Bengal Select		MDC204										
			Themes: 1206 CE-1727 CE												
Commerce			Personal Finance		MDC205										
Nutrition			Nutrition and Public Health		MDC206										
Education		е	Educational Philosophy		MDC207										
Psychology	п		Stress Management	MD	MDC208	MDC-2	2 -1 - 0	3	NA		15		35	50	NA
Computer		Any	Social Media and Cyber Awareness	112	MDC209	111002	2 1 0	5			15		55	50	
Bengali		4	Adhunik Bangla Sahitya		MDC210										
Nazrul Sangeet			Nazrul Sangeet		MDC211										
Electronics			E-Waste Management		MDC212										
Chemistry			Chemical Science		MDC213										
Sanskrit			Critical Survey of Sanskrit Language		MDC214										
Urdu			Asnaf- E -Adab		MDC215										
Hindi			Anuvad Vigyan		MDC216										
Botany			Herbal Home Remedies		MDC217										
		-							-						
Geography			Bharatavarsha—A Land of Rare Natural		MDC301										
0·····			Endowments		MDC501										
Sanskrit			The Vedangas and other Streams of Indian		MDC302										
		Je	Knowledge System												
Physics	Ш		Indian Astronomy	MD	MDC303	MDC-3	2 - 1 - 0	3	NA		15		35	50	NA
Zoology		Any	Indian Health Sciences		MDC304		210	2			10		55	20	
Mathematics		4	Indian Mathematics		MDC305										
Education			Indian Education		MDC306										
Political Sc			Indian Polity and Economy		MDC307										
Philosophy			Methodology of Indian Knowledge System		MDC308										

DESHABANDHU MAHAVIDYALAYA, CHITTARANJAN

DEPARTMENT OF CHEMISTRY

Curriculum

(with effect from Academic Session 2022-23)

	KAZI NAZR	UL UNIVERSITY		FACULTY OF SCIENCE	E		GREE PROGRAMM				WITH H	FFECT FRO	M THE ACA	DEMIC SES	SION: 2022-23		
Abbreviated Degree	Discipline	Abbreviated Degree Programme	Semester	Course Name		Course Type	Course Code	Course Details	L - T - P	Course Credit	Sem Credit		Marks Theoretical	ESE Practical	Marks Theoretical	Total Marks	Sem Marks
				Inorganic Chemistry -I		C	BSCHCEMC101	CC-1	5 - 1 - 0	6		ucucul	15	- menedi	35	50	
				Organic Chemistry - I		С	BSCHCEMC102	CC-2	5 - 1 - 0	6			15		35	50	
			I	Choose from the Pool of Generic Elective Courses offer Honours Disciplines other than the Discipline in which		GE	See Pool	GEC-1	See Pool	6	22			See Pool			150 + Marks GEC
				Environment Studies		AE	AEE101	AECC-1	4 - 0 - 0	4			15	1	35	50	-
						1	1										
				Physical Chemistry - I		с	BSCHCEMC201	CC-3	4 - 0 - 4	6		30	15	20	35	100	
				Organic Chemistry - II		C	BSCHCEMC202	CC-4	4 - 0 - 4	6		30	15	20	35	100	
			п	Choose from the Pool of Generic Elective Courses offe Honours Disciplines other than the Discipline in which		GE	See Pool	GEC-2	See Pool	6	22			See Pool			250 + Marks of GEC
				English/MIL Communication		AE	See Pool	AECC-2	4 - 0 - 0	4			15		35	50	-
				Inorganic Chemistry - II			BSCHCEMC301	CC-5	4 - 0 - 4	6		30	15	20	35	100	
				Organic Chemistry - III		С	BSCHCEMC302	CC-6	4 - 0 - 4	6		30	15	20	35	100	1
				Physical Chemistry - II			BSCHCEMC303	CC-7	4 - 0 - 4	6		30	15	20	35	100	350 + Marks
			ш	Choose from the Pool of Generic Elective Courses offe Honours Disciplines other than the Discipline in which		GE	See Pool	GEC-3	See Pool	6	28			See Pool			GEC
				Industrial Chemistry	(Any One)	SE	BSCHCEMSE301	SEC-1	4 - 0 - 0	4			15		35	50	1
BSCH	CHEMISTRY	BSCHCEM		Pharmaceutical Chemistry	(11) 011)	52	BSCHCEMSE302		4 - 0 - 0				15		35		
	CHEMISIKI	Doctronal		Inorannia Chamistry III		1	DECHCER ICIE:	00.0	4.6.1	<u> </u>		20	16	20	25	100	
				Inorganic Chemistry - III Organic Chemistry - IV		с	BSCHCEMC401	CC-8	4 - 0 - 4	6		30	15	20	35	100	4
				Physical Chemistry - IV		C	BSCHCEMC402 BSCHCEMC403	CC-9	4 - 0 - 4	6		30 30	15	20 20	35	100	
			IV	Choose from the Pool of Generic Elective Courses offe		GE	See Pool	CC-10 GEC- 4	4 - 0 - 4 See Pool	6	28	30	15	20 See Pool	35	100	350 + Marks GEC
				Honours Disciplines other than the Discipline in which	n monours course is taken		DOCTOR AND AND		1.0.0				15				-
				Chemistry of Cosmetics & Perfumes Fuel Chemistry	(Any One)	SE	BSCHCEMSE401 BSCHCEMSE402	SEC-2	4 - 0 - 0	4			15		35	50	
				Fuel Chemistry			BSCHCEMSE402		4-0-0				15		33		
				Organic Chemistry - V		1	BSCHCEMC501	CC-11	4 - 0 - 4	6		30	15	20	35	100	1
				Inorganic Chemistry - IV		С	BSCHCEMC502	CC-12	4 - 0 - 4	6		30	15	20	35	100	1
			v	Green Chemistry			BSCHCEMDSE501		5 - 1 - 0		24		15		35		300
				Environmental Chemistry	(Any Two)	DSE	BSCHCEMDSE502	DSEC-1 &	5 - 1 - 0	6 X 2			15		35	50 X 2	
				Solid State Chemistry			BSCHCEMDSE503	DSEC-2	5 - 1 - 0				15		35	I ''	
				Inorganic Chemistry - V		с	BSCHCEMC601	CC-13	4 - 0 - 4	6		30	15	20	35	100	
				Physical Chemistry - IV		e	BSCHCEMC602	CC-14	4 - 0 - 4	6		30	15	20	35	100	
			VI	Chemistry of Nanomaterials			BSCHCEMDSE601	DSEC-3 &	5 - 1 - 0		24		15		35	1 1	300
				Dynamic Stereochemistry	(Any Two)	DSE	BSCHCEMDSE602	DSEC-4	5 - 1 - 0	6 X 2			15		35	50 X 2	
				Quantum Chemistry & Spectroscopy			BSCHCEMDSE603		5 - 1 - 0				15		35		
							B3CHCEMD3E003	1			1.49					1700	Marks of CI
reviation	s: C= Core; CC=0	Core Course; AE= Abili	ity Enhancem	Total Credit and Marks ent; AECC= Ability Enhancement Compulsory Cour			lective Course; SE= S		t; SEC= Skill					Elective; DS			
	-	· · · ·		Total Credit and Marks ent; AECC= Ability Enhancement Compulsory Cour CA= Continuous Assessment, ESE= End S	emester Examination, L=	Lecture Hour; T=	lective Course; SE= S Tutorial Hour and P	= Practical Hour	it; SEC= Skill / Field Work :		ent Cours			Elective; DS			
neric Elect	ive Courses (GEC) : Students of a partic	ular Honours	Total Credit and Marks ent; AECC= Ability Enhancement Compulsory Cour CA= Continuous Assessment, ESE= End S Course will choose from the Pool of Generic Elective	emester Examination, L=	Lecture Hour; T=	lective Course; SE= S Tutorial Hour and P	= Practical Hour	it; SEC= Skill / Field Work :		ent Cours			Elective; DS			
neric Elect	ive Courses (GEC Pool of Generic I) : Students of a partic	ular Honours by this Discip	Total Credit and Marks ent; AECC= Ability Enhancement Compulsory Cour CA= Continuous Assessment, ESE= End S Course will choose from the Pool of Generic Elective pline	emester Examination, L=	Lecture Hour; T=	lective Course; SE= S Tutorial Hour and P he Discipline in which	'= Practical Hour	it; SEC= Skill / Field Work i is taken	and NA= N	ent Course ot Applica	ble	pline Specific		EC= Discipline	e Specific E	Elective Course
neric Elect	ive Courses (GEC) : Students of a partic	ular Honours	Total Credit and Marks ent; AECC= Ability Enhancement Compulsory Cour CA= Continuous Assessment, ESE= End S Course will choose from the Pool of Generic Elective	emester Examination, L=	Lecture Hour; T=	lective Course; SE= S Tutorial Hour and P	= Practical Hour	it; SEC= Skill / Field Work :		ent Cours	ble CA N	pline Specific Marks				Elective Course
neric Elect	ive Courses (GEC Pool of Generic I) : Students of a partic	ular Honours by this Discip	Total Credit and Marks ent; AECC= Ability Enhancement Compulsory Cour CA= Continuous Assessment, ESE= End S Course will choose from the Pool of Generic Elective pline	emester Examination, L=	Lecture Hour; T=	lective Course; SE= S Tutorial Hour and P he Discipline in which	'= Practical Hour	it; SEC= Skill / Field Work i is taken	and NA= N Course	ent Course ot Applica Sem	ble CA N	pline Specific	ESE	SEC= Discipline	e Specific E	Elective Course
eric Elect	ive Courses (GEC Pool of Generic I Disciplin	() : Students of a partic flective Courses offered	ular Honours by this Discip Semester	Total Credit and Marks ent; AECC= Ability Enhancement Compulsory Cour CA= Continuous Assessment, ESE= End S Course will choose from the Pool of Generic Elective pline Course Name	emester Examination, L=	Lecture Hour; T= blines other than t Course Type	lective Course; SE= 5 Tutorial Hour and P he Discipline in which Course Code	e= Practical Hour h Honours course Course Details	t; SEC= Skill / Field Work is taken L - T - P	and NA= N Course Credit	ent Course ot Applica Sem Credit	ble CA N	pline Specific Marks Theoretical	ESE Practical 20	EC= Discipline	e Specific E Total Marks	Elective Course Sem Marks
neric Elect	ive Courses (GEC Pool of Generic I	() : Students of a partic flective Courses offered	ular Honours by this Discip Semester I	Total Credit and Marks ent; AECC= Ability Enhancement Compulsory Cour CA= Continuous Assessment, ESE= End S Course will choose from the Pool of Generic Elective pline Course Name Basics in Organic and Inorganic Chemistry	emester Examination, L=	Lecture Hour; T=	lective Course; SE= S Tutorial Hour and P he Discipline in which Course Code BSCHCEMGE101 BSCHCEMGE201 BSCHCEMGE301	= Practical Hour h Honours course Course Details GEC-1	t; SEC= Skill / Field Work is taken L - T - P 5 - 1 - 0	Course Credit 6	ent Course ot Applica Sem	CA N Practical 30 30	pline Specific Marks Theoretical 15 15 15	ESE Practical 20 20	EC= Discipline Marks Theoretical 35 35 35 35	e Specific E Total Marks 50	Elective Course
eric Elect	ive Courses (GEC Pool of Generic I Disciplin	() : Students of a partic flective Courses offered	ular Honours by this Discip Semester I II	Total Credit and Marks ent; AECC= Ability Enhancement Compulsory Cour CA= Continuous Assessment, ESE= End S Course will choose from the Pool of Generic Elective pline Course Name Basics in Organic and Inorganic Chemistry Elementary Physical Chemistry & Organic Chemistry	emester Examination, L=	Lecture Hour; T= blines other than t Course Type	lective Course; SE= 5 Tutorial Hour and P he Discipline in which Course Code BSCHCEMGE101 BSCHCEMGE201	e Practical Hour h Honours course Course Details GEC-1 GEC-2	tt; SEC= Skill / Field Work is taken L - T - P 5 - 1 - 0 4 - 0 - 4	Course Credit 6 6	ent Course ot Applica Sem Credit	CA M Practical 30	pline Specific Marks Theoretical 15 15	ESE Practical 20	EC= Discipline	Total Marks 50 100	Elective Course Sem Marks
neric Elect	ive Courses (GEC Pool of Generic I Disciplin CHEMIST	() : Students of a partic flective Courses offered	ular Honours by this Discip Semester I II III IV	Total Credit and Marks ent; AECC= Ability Enhancement Compulsory Cour CA= Continuous Assessment, ESE= End S Course will choose from the Pool of Generic Electivo pline Course Name Basics in Organic and Inorganic Chemistry Elementary Physical Chemistry & Organic Chemistry Ihorganic Chemistry & Coganic Chemistry Inorganic Chemistry & Organic Chemistry Inorganic Chemistry & Organic Chemistry	emester Examination, L=	Lecture Hour; T= blines other than t Course Type	lective Course; SE= S Tutorial Hour and P he Discipline in which Course Code BSCHCEMGE101 BSCHCEMGE201 BSCHCEMGE301	E Practical Hour h Honours course Course Details GEC-1 GEC-2 GEC-3	tt; SEC= Skill / Field Work is taken L - T - P 5 - 1 - 0 4 - 0 - 4 4 - 0 - 4	Course Credit 6 6 6	ent Course ot Applica Sem Credit	CA P Practical	pline Specific Marks Theoretical 15 15 15 15 15 15	ESE Practical 20 20 20	EC= Discipline Marks Theoretical 35 35 35 35 35	Total Marks 50 100 100	Elective Course Sem Marks
eric Elect	ive Courses (GEC Pool of Generic I Disciplin CHEMIST nunication Course) : Students of a partic Clective Courses offered : RY s offered as Ability Enl	ular Honours by this Discip Semester I II III IV nancement Co	Total Credit and Marks ent; AECC= Ability Enhancement Compulsory Cour CA= Continuous Assessment, ESE= End S Course will choose from the Pool of Generic Elective pline Course Name Basics in Organic and Inorganic Chemistry Elementary Physical Chemistry & Organic Chemistry Inorganic Chemistry & Organic Chemistry Inorganic Chemistry & Organic Chemistry Inorganic Chemistry Courses	emester Examination, L=	Lecture Hour; T= blines other than t Course Type GE	lective Course; SE= 5 Tutorial Hour and P he Discipline in which Course Code BSCHCEMGE101 BSCHCEMGE301 BSCHCEMGE301 BSCHCEMGE301	E Practical Hour h Honours course Course Details GEC-1 GEC-2 GEC-3 GEC-4	t; SEC= Skill / Field Work is taken L - T - P 5 - 1 - 0 4 - 0 - 4 4 - 0 - 4 4 - 0 - 4	Course Credit 6 6 6 6 6 Course	ent Course ot Applica Sem Credit NA Sem	CA N Practical 30 30 30 30 CA N	pline Specific Aarks Theoretical 15 15 15 15 15 15 15 15	ESE Practical 20 20 20 ESE	EC= Discipline Marks Theoretical 35 35 35 35 35 35	Total Marks 50 100 100 100	Sem Marks
neric Elect	ive Courses (GEC Pool of Generic I Disciplin CHEMIST) : Students of a partic Clective Courses offered : RY s offered as Ability Enl	ular Honours by this Discip Semester I II III IV	Total Credit and Marks ent; AECC= Ability Enhancement Compulsory Cour CA= Continuous Assessment, ESE= End S Course will choose from the Pool of Generic Elective pline Basics in Organic and Inorganic Chemistry Elementary Physical Chemistry & Inorganic Chemistry Inorganic Chemistry & Inorganic Chemistry Inorganic Chemistry & Organic Chemistry mpulsary Courses Course Name	emester Examination, L=	Lecture Hour; T= blines other than t Course Type	lective Course; SE= 5 Tutorial Hour and P he Discipline in which Course Code BSCHCEMGE101 BSCHCEMGE201 BSCHCEMGE301 BSCHCEMGE401 Course Code	E Practical Hour h Honours course Course Details GEC-1 GEC-2 GEC-3	t; SEC= Skill Field Work is taken L - T - P 5 - 1 - 0 4 - 0 - 4 4 - 0 - 4 4 - 0 - 4 L - T - P	Course Credit 6 6 6 6	ent Course ot Applica Sem Credit NA	CA N Practical 30 30 30 30 CA N	pline Specific Marks Theoretical 15 15 15 15 15 Marks Theoretical	ESE Practical 20 20 20	EC= Discipline Marks Theoretical 35 35 35 35 35 35 35 35 35 35	Total Marks 50 100 100 100	Sem Marks
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mesterwise	ive Courses (GEC Pool of Generic I Disciplin CHEMIST nunication Course) : Students of a partic dective Courses offered 2 RY s offered as Ability Enl	ular Honours by this Discip Semester I II III IV nancement Co Semester	Total Credit and Marks ent; AECC= Ability Enhancement Compulsory Cour CA= Continuous Assessment, ESE= End S Course will choose from the Pool of Generic Elective pline Course Name Basics in Organic and Inorganic Chemistry Elementary Physical Chemistry & Organic Chemistry Inorganic Chemistry Inorganic Chemistry & Organic Chemistry Inorganic Chemi	emester Examination, L=	Course Type GE Course Type	lective Course; SE= 5 Tutorial Hour and P he Discipline in which Course Code BSCHCEMGE101 BSCHCEMGE301 BSCHCEMGE401 Course Code AECCE201	E Practical Hours Course Details GEC-1 GEC-3 GEC-3 GEC-4 Course Details	t; SEC= Skill / Field Work is taken L - T - P 5 - 1 - 0 4 - 0 - 4 4 - 0 - 4 4 - 0 - 4 L - T - P 4 - 0 - 0	Course Credit 6 6 6 6 Course Credit	ent Course ot Applica Sem Credit NA Sem Credit	CA N Practical 30 30 30 30 CA N	Aarks Aarks Theoretical 15 15 15 15 15 15 15 15 15 15 15 15 15	ESE Practical 20 20 20 ESE	Marks Marks Theoretical 35 35 35 35 Marks Theoretical 35	Total Marks 50 100 100 100 100	Sem Marks NA Sem Marks

	KAZI NAZR	UL UNIVERSITY		FACULTY OF SCIENCE			EGREE PROGRAM PROGRAM IN CHE				WIT	H EFFECT	FROM THE	ACADEMI	C SESSION: 2	022-23	
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
Ŭ		U		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		С	See Pool	CC-2(1)	See Pool	6	22		See	Pool		Marks of Disc.2 &	100 + Marks of Disc.2
			-	Discipline 3: CC-1(1) of Other Discipline				CC-3(1)		6						Disc.3	& Disc.3
				Environment Studies		AE	AEE101	AECC-1	4 - 0 - 0	4			15	L	35	50	
				Elementary Physical Chemistry & Organic Chemistry			BSCPCEMC201	CC-1(2)	4 - 0 -4	6	1	30	15	20	35	100	
				Discipline 2: CC-1(2) of Other Discipline		С		CC-2(2)		6	22					Marks of	150 + Marks of Disc.2
			п	Discipline 3: CC-1(2) of Other Discipline			See Pool	CC-3(2)	See Pool	6	22		See	Pool		Disc.2 & 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	
				Discipline 2: CC-1(3) of Other Discipline		С	Lifer CLine Joi	CC-2(3)	1-0-4	6		50	15	20		Marks of	150 - Marka of Divi 2
			ш	Discipline 3: CC-1(3) of Other Discipline		L	See Pool	CC-3(3)	See Pool	6	22		See	Pool		Disc.2 & Disc.3	150 + Marks of Disc.2 & Disc.3
				Industrial Chemistry		SE	BSCPCEMSE301	SEC-1	4 - 0 - 0	4			15		35	50	
BSCP	CHEMISTRY	BSCPCEM															
				Inorganic Chemistry & Organic Chemistry			BSCPCEMC401	CC-1(4)	4 - 0 - 4	6		30	15	20	35	100 Marka af	
			IV	Discipline 2: CC-1(4) of Other Discipline		С	See Pool	CC-2(4)	See Pool	6	22		See	Pool		Marks of Disc.2 &	150 + Marks of Disc.2 & Disc.3
				Discipline 3: CC-1(4) of Other Discipline		85		CC-3(4)	4.0.0	6			15			Disc.3	& DISC.3
				Chemistry of Cosmetics & Perfumes		SE	BSCPCEMSE401	SEC-2	4 - 0 - 0	4			15	I	35	50	
				Applied Chemistry	A		BSCPCEMDSE501	DSEC-1(1)	5 - 1 - 0	6			15		35	50	
				Quantum Chemistry, Spectroscopy & Photochemistry	Any One)	DSE	BSCPCEMDSE502		5 - 1 - 0		22		15		35		100 - Martin CDEEC
			v	Discipline 2: 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		Marks of DSE	100 + Marks of DSEC
				Pharmaceutical Chemistry		SE	BSCPCEMSE501	SEC-3	4 - 0 - 0	4			15		35	50	
				Chemistry of Bio-molecules & Chemotherapy			BSCPCEMDSE601		5 - 1 - 0				15	1	35		
				Advanced Inorganic Chemistry (A	Any One)	DSE	BSCPCEMDSE601 BSCPCEMDSE602	DSEC-1(2)	5 - 1 - 0	6			15		35	50	
			VI	Discipline 2: DSE-1(2) of Other Discipline Discipline 3: DSE-1(2) of Other Discipline		DSE	See Pool	DSEC-2(2)	See Pool	6	22		See	Pool		Marks of DSE	100 + Marks of DSEC
				Fuel Chemistry		SE	BSCPCEMSE601	DSEC-3(2) SEC-4	4 - 0 - 0	6			15		35	50 50	
				Total Credit and Marks							132			. 7	50 + Marks of		isc.3 + Marks of DSEC
Abbreviations:	: C= Core; CC=Co	ore Course; AE= Abilit		t; AECC= Ability Enhancement Compulsory Course; GE= G Course; CA= Continuous Assessment, ESE= End Semester Es										cipline Spec	cific Elective; I	SEC= Disc	ipline Specific Elective
				cipline-2 of any other Discipline except of his/her own. For ex he remaining semesters.	xample, if a	student opts	s for Program Course	in Chemistry t	hen that stu	dent is requ	ired to opt	Discipline-	2 from Progra	m Courses	other than Che	mistry. Onc	e Discipline-2 is
				cipline-3 of any other Discipline except Discipline 1 and Disci	ipline 2 alre	adv chosen.	Once Discipline-3 is	chosen in the 1	st Semester	the student	is to contin	ue with the	same in the re	emaining se	mesters.		
			Dist	· · · · · · · · · · · · · · · · · · ·	, 2 unte			in the I		- autom	to contra			g st			
Semesterwise I	Pool of Core Cour	ses offered by this Disc	ipline (when tr	eated as Discipline 2 for other Program Courses across the fa	aculties as fa	ar as practio	cable)										
		•				Course		Course		Course	Sem	CA	Marks	ESI	E Marks	Total	
	Discipline-	2	Semester	Course Name		Туре	Course Code	Details	L - T - P	Credit	Credit		Theoretical		Theoretical	Marks	Sem Marks
			I II	Basics in Organic and Inorganic Chemistry Elementary Physical Chemistry & Organic Chemistry			BSCPCEMC101 BSCPCEMC201	CC-2(1) CC-2(2)	5 - 1 - 0 4 - 0 - 4	6		30	15	20	35 35	50 100	
	CHEMISTR	RY	Ш	Physical Chemistry & Inorganic Chemistry		С	BSCPCEMC301	CC-2(2) CC-2(3)	4 - 0 - 4	6	NA	30	15	20	35	100	NA
			IV	Inorganic Chemistry & Organic Chemistry	_		BSCPCEMC401	CC-2(4)	4 - 0 - 4	6		30	15	20	35	100	
a																	
Semesterwise I	Pool of Core Cour	ses offered by this Disc	ipline (when tr	eated as Discipline 3 for other Program Courses across the fa	acultiesas fai	•	able)			~							
	Discipline-	3	Semester	Course Name		Course Type	Course Code	Course Details	L - T - P	Course Credit	Sem Credit		Marks Theoretical	ESI Practical	E Marks Theoretical	Total Marks	Sem Marks
			I	Basics in Organic and Inorganic Chemistry			BSCPCEMC101	CC-3(1)	5 - 1 - 0	6			15		35	50	
	CHEMISTR	RY	II	Elementary Physical Chemistry & Organic Chemistry Physical Chemistry & Inorganic Chemistry		С	BSCPCEMC201 BSCPCEMC301	CC-3(2)	4 - 0 - 4 4 - 0 - 4	6	NA	30 30	15	20 20	35 35	100	NA
			III IV	Inorganic Chemistry & Organic Chemistry			BSCPCEMC301 BSCPCEMC401	CC-3(3) CC-3(4)	4 - 0 - 4	6		30	15	20	35	100	
							•							-			·

		r Program Course will choose DSEC-2 from DSEC-1 of 1 r Program Course will choose DSEC-3 from DSEC-1 of 1													
scipline Specific Electric Course (DSEC) -5. Studen	to of a particula	Trogram Course win choose Doble-5 from Doble-1 of	Discipline 5.												
mesterwise Pool of Discipline Specific Elective Cour	ses (DSEC) offe	red by this Discipline (when treated as Discipline 2 for o	ther Program	Courses acro	ss the faculties as far a	s practicable)									
Discipline-2	Semester	Course Name		Course	Course Code	Course	L - T - P	Course	Sem	CA	Marks	ESH	Marks	Total	Sem Marks
Discipline-2	Semester	Course Name		Туре	Course Code	Details	L-I-P	Credit	Credit	Practical	Theoretical	Practical	Theoretical	Marks	Sem Marks
	v	Applied Chemistry	(Any One)		BSCPCEMDSE501	DSEC-2(1)	5 - 1 - 0	6			15		35	50	
CHEMISTRY	•	Quantum Chemistry, Spectroscopy & Photochemistry	(rany one)	DSE	BSCPCEMDSE502	D5EC-2(1)	5 - 1 - 0	0	NA		15		35	50	NA
CHEMISTRY	VI	Chemistry of Bio-molecules & Chemotherapy	(Any One)	DOL	BSCPCEMDSE601	DSEC-2(2)	5 - 1 - 0	6	1474		15		35	50	101
		Advanced Inorganic Chemistry	(They only)		BSCPCEMDSE602	BBEC 2(2)	5 - 1 - 0	0			15		35	50	
mesterwise Pool of Discipline Specific Elective Cour	ses (DSEC) offe	red by this Discipline (when treated as Discipline 3 for o	ther Program	Courses acro	ss the faculties as far a	s practicable)									
Discipline-3	Semester	Course Name		Course	Course Code	Course	L - T - P	Course	Sem	CA	Marks	ESH	Marks	Total	Sem Marks
Discipline-5	Semester	Course Name		Туре	Course Coue	Details	L • I • F	Credit	Credit	Practical	Theoretical	Practical	Theoretical	Marks	Sem Marks
	v	Applied Chemistry	(Any One)		BSCPCEMDSE501	DSEC-3(1)	5 - 1 - 0	6			15		35	50	
CHEMISTRY	•	Quantum Chemistry, Spectroscopy & Photochemistry	(rany one)	DSE	BSCPCEMDSE502	DSEC-5(1)	5 - 1 - 0	0	NA		15		35	50	NA
CHEMISTRI	VI	Chemistry of Bio-molecules & Chemotherapy	(Any One)	202	BSCPCEMDSE601	DSEC-3(2)	5 - 1 - 0	6			15		35	50	
		Advanced Inorganic Chemistry	(111) 0110)		BSCPCEMDSE602	BBEC 5(2)	5 - 1 - 0	0			15		35	50	
ool of Communication Courses offered as Ability Enl	nancement Com	pulsary Courses													
				Course		Course		Course	Sem	CA	Marks	ESF	Marks	Total	Sem Marks
Dissipling	Composton	Comes Nome													
Discipline	Semester	Course Name		Туре	Course Code	Details	L - T - P	Credit	Credit		Theoretical	Practical	Theoretical	Marks	Sem Marks
Discipline	Semester	English Communication	1		AECCE201	Details	4 - 0 - 0		Credit		15	Practical	35	Marks	Sem Marks
		English Communication Bengali Communication	(Any One)	Туре	AECCE201 AECCB201		<u>4 - 0 - 0</u> <u>4 - 0 - 0</u>				15 15	Practical	35 35		
Discipline English/MIL Communication	Semester	English Communication	(Any One)		AECCE201	Details AECC-2	4 - 0 - 0		Credit NA		15	Practical	35	Marks 50	NA

DESHABANDHU MAHAVIDYALAYA, CHITTARANJAN

DEPARTMENT OF CHEMISTRY

Curriculum

(with effect from Academic Session 2020-21)

4 The	KAZI NAZR	UL UNIVERSITY		FACULTY OF SCIENCE	E		GREE PROGRAMM				WITH F	FFECT FRO	M THE ACA	DEMIC SES	SION: 2020-21		
Abbreviated Degree	Discipline	Abbreviated Degree Programme	Semester	Course Name		Course Type	Course Code	Course Details	L - T - P	Course Credit	Sem Credit	CA N Practical	larks Theoretical	ESE Practical	Marks Theoretical	Total Marks	Sem Marks
				Inorganic Chemistry -I		с	BSCHCEMC101	CC-1	5 - 1 - 0	6			10		40	50	
				Organic Chemistry - I		C	BSCHCEMC102	CC-2	5 - 1 - 0	6			10		40	50	150 + Marks o
			I	Choose from the Pool of Generic Elective Courses offe Honours Disciplines other than the Discipline in which		GE	See Pool	GEC-1	See Pool	6	22			See Pool			GEC
				Environment Studies		AE	AEE101	AECC-1	4 - 0 - 0	4			10		40	50	1
				Physical Chemistry - I Organic Chemistry - II		С	BSCHCEMC201	CC-3	4 - 0 - 4	6		30	10	20	40	100	-
			п	Choose from the Pool of Generic Elective Courses offe		GE	BSCHCEMC202 See Pool	CC-4 GEC-2	4 - 0 - 4 See Pool	6	22	30	10	20 See Pool	40	100	250 + Marks GEC
				Honours Disciplines other than the Discipline in which	h Honours course 1s taken									· · · · · · · · · · · · · · · · · · ·			
				English/MIL Communication		AE	See Pool	AECC-2	4 - 0 - 0	4			10		40	50	
				Inorganic Chemistry - II		1	BSCHCEMC301	CC-5	4 - 0 - 4	6		30	10	20	40	100	1
				Organic Chemistry - III		с	BSCHCEMC302	CC-6	4 - 0 - 4	6		30	10	20	40	100	-
				Physical Chemistry - II		Č	BSCHCEMC302 BSCHCEMC303	CC-0 CC-7	4-0-4	6		30	10	20	40	100	1
			ш	Choose from the Pool of Generic Elective Courses offe		GE	See Pool	GEC- 3	See Pool	6	28	30	10	See Pool	40	100	350 + Marks GEC
				Honours Disciplines other than the Discipline in which	n Honours course is taken												-
				Industrial Chemistry	(Any One)	SE	BSCHCEMSE301 BSCHCEMSE302	SEC-1	4 - 0 - 0	4			10		40	50	
BSCH	CHEMISTRY	BSCHCEM		Pharmaceutical Chemistry		1	BSCHCEMSE302	I	4 - 0 - 0		_		10		40	L	I
				Inorganic Chemistry - III		1	BSCHCEMC401	CC-8	4 - 0 - 4	6		30	10	20	40	100	1
				Organic Chemistry - IV		с	BSCHCEMC401 BSCHCEMC402	CC-8 CC-9	4-0-4	6		30	10	20	40	100	1
				Physical Chemistry - III		č	BSCHCEMC402 BSCHCEMC403	CC-10	4-0-4	6		30	10	20	40	100	1
			IV	Choose from the Pool of Generic Elective Courses offe Honours Disciplines other than the Discipline in which		GE	See Pool	GEC-4	See Pool	6	28	50	10	See Pool	10	100	350 + Marks GEC
				Chemistry of Cosmetics & Perfumes	in monours course is taken		BSCHCEMSE401		4.0.0				10		40		-
				Fuel Chemistry	(Any One)	SE	BSCHCEMSE401 BSCHCEMSE402	SEC-2	4 - 0 - 0 4 - 0 - 0	4			10		40	50	
				Puer Chemistry		1	B3CHCEM3E402		4-0-0			I	10		40	L	
				Organic Chemistry - V		1	BSCHCEMC501	CC-11	4 - 0 - 4	6		30	10	20	40	100	1
				Inorganic Chemistry - IV		С	BSCHCEMC502	CC-12	4 - 0 - 4	6		30	10	20	40	100	1
			v	Green Chemistry			BSCHCEMDSE501		5 - 1 - 0		24		10		40		300
				Environmental Chemistry	(Any Two)	DSE	BSCHCEMDSE502	DSEC-1 &	5 - 1 - 0	6 X 2			10		40	50 X 2	
				Solid State Chemistry			BSCHCEMDSE503	DSEC-2	5 - 1 - 0				10		40	1	
				Inorganic Chemistry - V		с	BSCHCEMC601	CC-13	4 - 0 - 4	6		30	10	20	40	100	
				Physical Chemistry - IV	1	-	BSCHCEMC602	CC-14	4 - 0 - 4	6		30	10	20	40	100	
			VI	Chemistry of Nanomaterials	(1 77)		BSCHCEMDSE601	DSEC-3 &	5 - 1 - 0	6 14 0	24		10		40	50 X 2	300
				Dynamic Stereochemistry	(Any Two)	DSE	BSCHCEMDSE602 BSCHCEMDSE603	DSEC-4	5 - 1 - 0 5 - 1 - 0	6 X 2			10		40 40	50 A 2	
				Quantum Chemistry & Spectroscopy Total Credit and Marks			BSCHCEMDSE603		5 - 1 - 0		148		10		40	1700	
																	Marks of G
breviation	s: C= Core; CC=0	Core Course; AE= Abili	ty Enhanceme	rotal Credit and Warks ent; AECC= Ability Enhancement Compulsory Cour CA= Continuous Assessment, ESE= End S									pline Specific	Elective; DS	EC= Discipline	e Specific E	
	-			ent; AECC= Ability Enhancement Compulsory Cour	Semester Examination, L=	Lecture Hour; T=	Tutorial Hour and P	= Practical Hour	/ Field Work				pline Specific	Elective; DS	EC= Discipline	Specific F	
meric Elect	tive Courses (GEC		ular Honours by this Discip	ent; AECC= Ability Enhancement Compulsory Cour CA= Continuous Assessment, ESE= End S Course will choose from the Pool of Generic Elective pline	Semester Examination, L=	Lecture Hour; T=	Tutorial Hour and P he Discipline in which	= Practical Hour	/ Field Work	and NA= N	ot Applica	ble				-	Elective Cours
aeric Elect	tive Courses (GEC) : Students of a partic	ular Honours	ent; AECC= Ability Enhancement Compulsory Cour CA= Continuous Assessment, ESE= End S Course will choose from the Pool of Generic Elective	Semester Examination, L=	Lecture Hour; T=	Tutorial Hour and P	= Practical Hour	/ Field Work	and NA= N Course	ot Applica	ble CA M	farks	ESE	Marks	Total	Elective Cours
neric Elect	tive Courses (GEC Pool of Generic F) : Students of a partic	ular Honours by this Discip	ent; AECC= Ability Enhancement Compulsory Cour CA= Continuous Assessment, ESE= End S Course will choose from the Pool of Generic Elective pline	Semester Examination, L=	Lecture Hour; T=	Tutorial Hour and P he Discipline in which	= Practical Hour	/ Field Work	and NA= N	ot Applica	ble CA M				-	Elective Cours
neric Elect	tive Courses (GEC Pool of Generic E Discipline	() : Students of a partic Elective Courses offered	ular Honours by this Discip Semester	ent; AECC= Ability Enhancement Compulsory Cour CA= Continuous Assessment, ESE= End S Course will choose from the Pool of Generic Elective Dline Course Name	Semester Examination, L=	Lecture Hour; T= slines other than t Course Type	Tutorial Hour and P he Discipline in which Course Code	= Practical Hour	/ Field Work is taken L - T - P	and NA= N Course Credit	ot Applica Sem Credit	ble CA M	farks Theoretical	ESE	Marks Theoretical	Total Marks	Elective Course Sem Marks
neric Elect	tive Courses (GEC Pool of Generic F	() : Students of a partic Elective Courses offered	ular Honours by this Discip Semester I	ent; AECC= Ability Enhancement Compulsory Cour CA= Continuous Assessment, ESE= End S Course will choose from the Pool of Generic Elective sline Course Name Basics in Organic and Inorganic Chemistry	Semester Examination, L=	Lecture Hour; T=	Tutorial Hour and P he Discipline in which Course Code BSCHCEMGE101	= Practical Hour	/ Field Work is taken L - T - P 5 - 1 - 0	and NA= N Course Credit 6	ot Applica	CA M Practical	farks Theoretical 10	ESE Practical	Marks Theoretical 40	Total Marks 50	Elective Cours
neric Elect	tive Courses (GEC Pool of Generic E Discipline	() : Students of a partic Elective Courses offered	ular Honours by this Discip Semester I II	ent; AECC= Ability Enhancement Compulsory Cour CA= Continuous Assessment, ESE= End S Course will choose from the Pool of Generic Elective Dime Course Name Basics in Organic and Inorganic Chemistry Elementary Physical Chemistry & Organic Chemistry	Semester Examination, L=	Lecture Hour; T= slines other than t Course Type	Tutorial Hour and P he Discipline in which Course Code BSCHCEMGE101 BSCHCEMGE201	= Practical Hour a Honours course Course Details GEC-1 GEC-2	Field Work is taken L - T - P 5 - 1 - 0 4 - 0 - 4	Course Credit 6 6	ot Applica Sem Credit	CA M Practical 30	farks Theoretical 10 10	ESE Practical 20	Marks Theoretical 40 40	Total Marks 50 100	Elective Course Sem Marks
neric Elect nesterwise	tive Courses (GEC Pool of Generic E Disciplin CHEMIST	() : Students of a partic Elective Courses offered	ular Honours by this Discip Semester I II III IV	ent; AECC= Ability Enhancement Compulsory Cour CA= Continuous Assessment, ESE= End S Course will choose from the Pool of Generic Elective Dline Basics in Organic and Inorganic Chemistry Elementary Physical Chemistry & Organic Chemistry Physical Chemistry & Inorganic Chemistry Inorganic Chemistry & Organic Chemistry	Semester Examination, L=	Lecture Hour; T= slines other than t Course Type	Tutorial Hour and P he Discipline in which Course Code BSCHCEMGE101 BSCHCEMGE201 BSCHCEMGE301	= Practical Hour h Honours course Course Details GEC-1 GEC-2 GEC-3	/ Field Work is taken L - T - P 5 - 1 - 0 4 - 0 - 4 4 - 0 - 4	Course Credit 6 6 6	ot Applica Sem Credit	CA M Practical 30 30	farks Theoretical 10 10 10	ESE Practical 20 20	Marks Theoretical 40 40 40 40	Total Marks 50 100 100	Elective Course Sem Marks
neric Elect	tive Courses (GEC Pool of Generic E Disciplin CHEMIST aunication Course) : Students of a partic Clective Courses offered : RY s offered as Ability Enl	ular Honours by this Discip Semester I II III IV	ent; AECC= Ability Enhancement Compulsory Cour CA= Continuous Assessment, ESE= End S Course will choose from the Pool of Generic Elective Dline Course Name Basics in Organic and Inorganic Chemistry Elementary Physical Chemistry & Organic Chemistry Physical Chemistry & Inorganic Chemistry Inorganic Chemistry & Organic Chemistry mpulsary Courses	Semester Examination, L=	Lecture Hour; T= lines other than t Course Type GE	Tutorial Hour and P he Discipline in which Course Code BSCHCEMGE101 BSCHCEMGE201 BSCHCEMGE301 BSCHCEMGE301	E Practical Hour	/ Field Work is taken L - T - P 5 - 1 - 0 4 - 0 - 4 4 - 0 - 4	Course Credit 6 6 6 6 6 Course	Sem Credit NA Sem	CA M Practical 30 30 30 CA M	Iarks Theoretical 10 10 10 10 10	ESE Practical 20 20 20 ESE	Marks Theoretical 40 40 40 40 40	Total Marks 50 100 100 100 Total	Sem Marks
neric Elect	tive Courses (GEC Pool of Generic E Disciplin CHEMIST) : Students of a partic Clective Courses offered : RY s offered as Ability Enl	ular Honours by this Discip Semester I II III IV	ent; AECC= Ability Enhancement Compulsory Cour CA= Continuous Assessment, ESE= End S Course will choose from the Pool of Generic Elective Dline Course Name Basics in Organic and Inorganic Chemistry Elementary Physical Chemistry & Organic Chemistry Physical Chemistry & Inorganic Chemistry Inorganic Chemistry & Organic Chemistry Inorganic Chemistry & Organic Chemistry mpulsary Courses	Semester Examination, L=	Lecture Hour; T= slines other than t Course Type	Tutorial Hour and P he Discipline in which Course Code BSCHCEMGE101 BSCHCEMGE201 BSCHCEMGE301 BSCHCEMGE401 Course Code	= Practical Hour h Honours course Course Details GEC-1 GEC-2 GEC-3	V Field Work is taken L - T - P 5 - 1 - 0 4 - 0 - 4 4 - 0 - 4 L - T - P	Course Credit 6 6 6 6 6	Sem Credit NA	CA M Practical 30 30 30 CA M	farks Theoretical 10 10 10 10 10 10 farks Theoretical	ESE Practical 20 20 20	Marks Theoretical 40 40 40 40 40 Marks Theoretical	Total Marks 50 100 100 100	Elective Course Sem Marks
neric Elect nesterwise	tive Courses (GEC Pool of Generic E Disciplin CHEMIST aunication Course) : Students of a partic Clective Courses offered : RY s offered as Ability Enl	ular Honours by this Discip Semester I II III IV	ent; AECC= Ability Enhancement Compulsory Cour CA= Continuous Assessment, ESE= End S Course will choose from the Pool of Generic Elective oline Course Name Basics in Organic and Inorganic Chemistry Elementary Physical Chemistry & Organic Chemistry Inorganic Chemistry & Inorganic Chemistry Inorganic Chemistry & Inorganic Chemistry Imogranic Chemistry & Inorganic Chemistry mpulsary Courses Course Name English Communication	Semester Examination, L=	Lecture Hour; T= lines other than t Course Type GE	Tutorial Hour and P he Discipline in which Course Code BSCHCEMGE101 BSCHCEMGE201 BSCHCEMGE301 BSCHCEMGE401 BSCHCEMGE401 Course Code AECCE201	E Practical Hour	7 Field Work is taken L - T - P 5 - 1 - 0 4 - 0 - 4 4 - 0 - 4 4 - 0 - 4 L - T - P 4 - 0 - 0	Course Credit 6 6 6 6 6 Course	Sem Credit NA Sem	CA M Practical 30 30 30 CA M	larks Theoretical 10 10 10 10 10 10 farks Theoretical 10	ESE Practical 20 20 20 ESE	Marks Theoretical 40 40 40 40 40 40 Marks Theoretical 40	Total Marks 50 100 100 100 Total	Sem Marks NA
eneric Elect	tive Courses (GEC Pool of Generic E Disciplin CHEMIST aunication Course) : Students of a partic dective Courses offered 2 RY s offered as Ability Enl	ular Honours by this Discip Semester I II III IV	ent; AECC= Ability Enhancement Compulsory Cour CA= Continuous Assessment, ESE= End S Course will choose from the Pool of Generic Elective Dime Basics in Organic and Inorganic Chemistry Elementary Physical Chemistry & Organic Chemistry Physical Chemistry & Droganic Chemistry Inorganic Chemistry & Organic Chemistry mpulsary Courses Course Name English Communication Bengall Communication	Semester Examination, L=	Lecture Hour; T= lines other than t Course Type GE	Tutorial Hour and P he Discipline in which Course Code BSCHCEMGE101 BSCHCEMGE201 BSCHCEMGE301 BSCHCEMGE401 BSCHCEMGE401 Course Code AECCE201 AECCE201	E Practical Hour	✓ Field Work is taken L - T - P 5 - 1 - 0 4 - 0 - 4 4 - 0 - 4 4 - 0 - 4 L - T - P 4 - 0 - 0 4 - 0 - 0 4 - 0 - 0	Course Credit 6 6 6 6 6 Course	Sem Credit NA Sem	CA M Practical 30 30 30 CA M	Iarks Theoretical 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10	ESE Practical 20 20 20 ESE	Marks Theoretical 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40	Total Marks 50 100 100 100 Total	Sem Marks
eneric Elect mesterwise wol of Comm	iive Courses (GEC Pool of Generic F Disciplin CHEMIST nunication Course Disciplin) : Students of a partic dective Courses offered 2 RY s offered as Ability Enl	ular Honours by this Discip Semester I II III IV sancement Cor Semester	ent; AECC= Ability Enhancement Compulsory Cour CA= Continuous Assessment, ESE= End S Course will choose from the Pool of Generic Elective oline Course Name Basics in Organic and Inorganic Chemistry Elementary Physical Chemistry & Organic Chemistry Inorganic Chemistry & Inorganic Chemistry Inorganic Chemistry & Inorganic Chemistry Imogranic Chemistry & Inorganic Chemistry mpulsary Courses Course Name English Communication	eenester Examination, L=	Course Type GE Course Type	Tutorial Hour and P he Discipline in which Course Code BSCHCEMGE101 BSCHCEMGE201 BSCHCEMGE301 BSCHCEMGE401 BSCHCEMGE401 Course Code AECCE201	= Practical Hour honours course Course Details GEC-1 GEC-2 GEC-3 GEC-3 GEC-4 Course Details	7 Field Work is taken L - T - P 5 - 1 - 0 4 - 0 - 4 4 - 0 - 4 4 - 0 - 4 L - T - P 4 - 0 - 0	Course Credit 6 6 6 6 6 Course Credit	ot Applics Sem Credit NA Sem Credit Credit	CA M Practical 30 30 30 CA M	larks Theoretical 10 10 10 10 10 10 farks Theoretical 10	ESE Practical 20 20 20 ESE	Marks Theoretical 40 40 40 40 40 40 Marks Theoretical 40	Total Marks 50 100 100 100 100 Total Marks	Sem Marks Sem Marks

	KAZI NAZR	UL UNIVERSITY		FACULTY OF SCIENCE			DEGREE PROGRAM PROGRAM IN CHE				wr	H EFFECI	FROM THE	ACADEMI	IC SESSION: 2	2020-21	
Abbreviated Degree	Discipline	Abbreviated Degree Programme	Semester	Course Name		Course Type	Course Code	Course Details	L - T - P	Course Credit	Sem Credit	-	Marks Theoretical		E Marks Theoretical	Total Marks	Sem Marks
		-		Basics in Organic & Inorganic Chemistry			BSCPCEMC101	CC-1(1)	5 - 1 - 0	6			10		40	50	
				Discipline 2: CC-1(1) of Other Discipline		С	C. D. I	CC-2(1)	6. D. 1	6	22			D. I		Marks of	100 + Marks of Disc.2
			I	Discipline 3: CC-1(1) of Other Discipline		1	See Pool	CC-3(1)	See Pool	6	22		See	Pool		Disc.2 & Disc.3	& Disc.3
				Environment Studies		AE	AEE101	AECC-1	4 - 0 - 0	4			10		40	50	
							•					•					
				Elementary Physical Chemistry & Organic Chemistry			BSCPCEMC201	CC-1(2)	4 - 0 -4	6		30	10	20	40	100	
			п	Discipline 2: CC-1(2) of Other Discipline		С	See Pool	CC-2(2)	See Pool	6	22		See	Pool		Marks of Disc.2 &	150 + Marks of Disc.2
				Discipline 3: CC-1(2) of Other Discipline				CC-3(2)		6						Disc.3	& Disc.3
				English/MIL Communication		AE	See Pool	AECC-2	4 - 0 - 0	4			10		40	50	
				Physical Chemistry & Inorganic Chemistry		1	BSCPCEMC301	CC-1(3)	4 - 0 - 4	6		30	10	20	40	100	-
				Discipline 2: CC-1(3) of Other Discipline		1_	DJCI CEMCJUI	CC-2(3)	4-0-4	6		50	10	20	+0	Marks of	
			ш			С	See Pool		See Pool		22		See	Pool		Disc.2 &	150 + Marks of Disc.2 & Disc.3
				Discipline 3: CC-1(3) of Other Discipline				CC-3(3)		6			1			Disc.3	& Disc.5
BSCP	CHEMISTRY	BSCPCEM		Industrial Chemistry		SE	BSCPCEMSE301	SEC-1	4 - 0 - 0	4			10	I	40	50	
boer	CHEMISTRI	BOCICEM		Inorganic Chemistry & Organic Chemistry			BSCPCEMC401	CC-1(4)	4 - 0 - 4	6		30	10	20	40	100	
				Discipline 2: CC-1(4) of Other Discipline		С	6 D I	CC-2(4)	6 D .	6						Marks of	150 + Marks of Disc.2
			IV	Discipline 3: CC-1(4) of Other Discipline		1	See Pool	CC-3(4)	See Pool	6	22		See	Pool		Disc.2 & Disc.3	& Disc.3
				Chemistry of Cosmetics & Perfumes		SE	BSCPCEMSE401	SEC-2	4 - 0 - 0	4			10	1	40	50	
						•		• •				•					
				Applied Chemistry Quantum Chemistry, Spectroscopy & Photochemistry	(Any One)		BSCPCEMDSE501 BSCPCEMDSE502	DSEC-1(1)	5 - 1 - 0	6			10	l	40 40	50	
			v	Discipline 2: DSE-1(1) of Other Discipline	1	DSE		DSEC-2(1)		6	22			Beel	40	Marks of	100 + Marks of DSEC
				Discipline 3: DSE-1(1) of Other Discipline		1	See Pool	DSEC-3(1)	See Pool	6				Pool		DSE	
				Pharmaceutical Chemistry		SE	BSCPCEMSE501	SEC-3	4 - 0 - 0	4			10	I	40	50	
				Chemistry of Bio-molecules & Chemotherapy	(Any One)		BSCPCEMDSE601	DSEC-1(2)	5 - 1 - 0	6			10		40	50	
				Advanced Inorganic Chemistry	(Any One)	DSE	BSCPCEMDSE602		5 - 1 - 0		22		10		40		100 - Martin CDODG
			VI	Discipline 2: DSE-1(2) of Other Discipline Discipline 3: DSE-1(2) of Other Discipline		1	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			10		40	50	
				Total Credit and Marks							132			5	750 + Marks of	Disc.2 & D	isc.3 + Marks of DSEC
Abbreviations:	: C= Core; CC=Co	ore Course; AE= Abilit	y Enhancemen	t; AECC= Ability Enhancement Compulsory Course; GI	E= Generic Ele	ective; GEC=	= Generic Elective Cor	arse; SE= Skill	Enhanceme	nt; SEC= S	kill Enhan	cement Cou	rse; DSE= Dis	cipline Spe	cific Elective; I	DSEC= Disc	ipline Specific Elective
				Course; CA= Continuous Assessment, ESE= End Semeste	er Examinatio	n, L= Lectur	e Hour; T= Tutorial H	Iour and P= Pr	actical Hou	r/ Field Wo	k and NA	= Not Appli	cable				
							6 D ~							0			
				cipline-2 of any other Discipline except of his/her own. For the remaining semesters.	or example, if a	a student opt	s for Program Course	in Chemistry t	hen that stu	dent is requ	ired to opt	Discipline-	2 from Progra	m Courses	other than Che	emistry. On	ce Discipline-2 is
				-			0	A	4.6	a							
Discipline-3: S	tudents of a partic	ular Program Course	will choose Disc	cipline-3 of any other Discipline except Discipline 1 and 1	Discipline 2 ali	ready chosen	. Once Discipline-3 is	cnosen in the 1	st Semester	the student	is to contii	ue with the	same in the re	emaining se	mesters.		
Somostomeica	Pool of Core Cours	os offered by this Dise	inline (when to	eated as Discipline 2 for other Program Courses across th	ho facultics as	for as prest	(applo)										
Semesterwise I					ne raculties as	Course		Course		Course	Sem	CA.	Marks	FS	E Marks	Total	1
	Discipline-2	2	Semester	Course Name		Type	Course Code	Details	L - T - P	Credit	Credit		Theoretical		Theoretical	Marks	Sem Marks
			I	Basics in Organic and Inorganic Chemistry			BSCPCEMC101	CC-2(1)	5 - 1 - 0	6			10		40	50	
	CHEMISTR	Y	II	Elementary Physical Chemistry & Organic Chemistry		С	BSCPCEMC201 BSCPCEMC301	CC-2(2)	4 - 0 - 4	6	NA	30 30	10	20	40	100 100	NA
			III IV	Physical Chemistry & Inorganic Chemistry Inorganic Chemistry & Organic Chemistry			BSCPCEMC301 BSCPCEMC401	CC-2(3) CC-2(4)	4 - 0 - 4	6		30	10	20 20	40 40	100	
			.,				1001 01110 101	00-2(7)		~							
Semesterwise I	Pool of Core Cours	ses offered by this Disc	ipline (when tr	eated as Discipline 3 for other Program Courses across th	he facultiesas f	far as practic	cable)										
	Distan	,	Someter	Course Nome		Course	Course Code	Course	L - T - P	Course	Sem	CA	Marks	ESI	E Marks	Total	Com Marcha
	Discipline-	,	Semester	Course Name		Туре	Course Code	Details		Credit	Credit	Practical	Theoretical	Practical	Theoretical	Marks	Sem Marks
			I	Basics in Organic and Inorganic Chemistry			BSCPCEMC101	CC-3(1)	5 - 1 - 0	6		20	10	20	40	50	
	CHEMISTR	Y	Ш	Elementary Physical Chemistry & Organic Chemistry Physical Chemistry & Inorganic Chemistry		С	BSCPCEMC201 BSCPCEMC301	CC-3(2) CC-3(3)	4 - 0 - 4	6	NA	30 30	10	20 20	40 40	100	NA
			IV	Inorganic Chemistry & Organic Chemistry			BSCPCEMC401	CC-3(3) CC-3(4)	4 - 0 - 4	6		30	10	20	40	100	
						-	-						•				

issining Specific Floring Course (DSEC). 2. Student	a of a neutionla	Program Course will choose DSEC-2 from DSEC-1 of I	Dissipling 2												
		r Program Course will choose DSEC-2 from DSEC-1 of I													
mesterwise Pool of Discipline Specific Elective Cours	es (DSEC) offe	red by this Discipline (when treated as Discipline 2 for o	ther Program	Courses acro	ss the faculties as far a	s practicable)									
Discipline-2	Semester	Course Name		Course Type	Course Code	Course Details	L - T - P	Course Credit	Sem Credit	-	Marks Theoretical		E Marks Theoretical	Total Marks	Sem Marks
	v	Applied Chemistry Quantum Chemistry, Spectroscopy & Photochemistry	(Any One)		BSCPCEMDSE501 BSCPCEMDSE502	DSEC-2(1)	5 - 1 - 0	6		Tructucur	10 10	Tructucal	40 40	50	
CHEMISTRY	VI	Chemistry of Bio-molecules & Chemotherapy Advanced Inorganic Chemistry	(Any One)	DSE	BSCPCEMDSE601 BSCPCEMDSE602	DSEC-2(2)	5 - 1 - 0 5 - 1 - 0	6	NA		10		40 40	50	NA
nesterwise Pool of Discipline Specific Elective Cours	es (DSEC) offe	red by this Discipline (when treated as Discipline 3 for o	ther Program	Courses acro	ss the faculties as far a	s practicable)									
Discipline-3	Semester	Course Name		Course Type	Course Code	Course Details	L • T • P	Course Credit	Sem Credit	-	Marks Theoretical		E Marks Theoretical	Total Marks	Sem Marks
CHEMISTRY	v	Applied Chemistry Quantum Chemistry, Spectroscopy & Photochemistry	(Any One)	DSE	BSCPCEMDSE501 BSCPCEMDSE502	DSEC-3(1)	5 - 1 - 0 5 - 1 - 0	6	NA		10 10		40 40	50	NA
CHEMISTRY	VI	Chemistry of Bio-molecules & Chemotherapy Advanced Inorganic Chemistry	(Any One)	DSE	BSCPCEMDSE601 BSCPCEMDSE602	DSEC-3(2)	5 - 1 - 0 5 - 1 - 0	6	INA		10 10		40 40	50	INA
		• •													
ol of Communication Courses offered as Ability Enha	ancement Com	oulsary Courses		~	1	~		~	~						
Discipline	Semester	Course Name		Course Type	Course Code	Course Details	L - T - P	Course Credit	Sem Credit		Marks Theoretical		E Marks Theoretical	Total Marks	Sem Marks
English/MIL Communication	п	English Communication Bengali Communication Hindi Communication	(Any One)	AE	AECCE201 AECCB201 AECCH201	AECC-2	4 - 0 - 0 4 - 0 - 0 4 - 0 - 0	4	NA		10 10 10		40 40 40	50	NA
		Urdu Communication			AECCU201		4 - 0 - 0				10		40		