	KAZI NAZF	RUL UNIVERSITY		FACULTY OF SCIENCE		DEGREE PROGRAMME: 3 YEARS DEGREE WITH COMPUTER SCIENCE/4 YEARS DEGREE WITH COMPUTER SCIENCE HONOURS/ 4 YEARS DEGREE WITH COMPUTER SCIENCE HONOURS WITH RESEARCH				WITH EFFECT FROM THE ACADEMIC SESSION: 2023-24									
Abbrevia	Abbreviated Degree Abbreviated Degree		Semester	Course Name		Course Type	Course Code	Course Details	L-T-P	Course	Sem Credit		Marks	ESE Marks		Total	Sem Marks		
		Programme		0.000000						Credit	~	Practical	Theoretical	Practical	Theoretical	Marks	~		
				Introduction to Programming using C		MAJOR	BSCCOSMJ101	MJC-1	3 - 0 - 4	5		30	15	20	35	100			
			I	MINOR COURSE- Choose from the Pool of Minor Courses offered in 1st Semester by the other Disciplines		MINOR	See Pool	MNC-1	4 - 1 - 0	5	20		30		70	100			
				Choose from the Pool of Multidisciplinary Courses offered in 1st Semester		MD	See Pool	MDC-1	3 - 0 - 0	3			15		35	50			
				English/MIL Communication		AEC	See Pool	AEC-1	4 - 0 - 0	4	1		15		35	50	-		
				Office Automation Software Lab		SEC	BSCCOSSE101	SEC-1	0-0-6	3		30	13	20	33	50	1		
								~~~											
				Data Structures and Algorithms		MAJOR	BSCCOSMJ201	MJC-2	3 - 0 - 4	5		30	15	20	35	100	350		
			II	MINOR COURSE- Minor Course opted for in the 1st semester should be continued in the 2nd semester with syllabus content of 2nd semester		MINOR	Corresponding Course Code of Minor opted in 1st Semester	MNC-2	4 - 1 - 0	5	20		30		70	100			
				Choose from the Pool of Multidisciplinary Courses offered in 2nd Semester		MD	See Pool	MDC-2	3 - 0 - 0	3			15		35	50			
				Environment Studies		VAC	VAC-201	VAC-1	4 - 0 - 0	4			15		35	50			
				Basics of Python		SEC	BSCCOSSE201	SEC-2	0 - 0 - 6	3	1	30		20		50			
			Student exiti	g the programmes after securing 40 credits will be	Iwarded OG Co		skill-based courses	s earned during first	and second s	emester	ational course	s offered during		internship / A					
				Discrete Mathematics	<b></b>	MAJOR	BSCCOSMJ301	MJC-3	4 - 1 - 0	5			30		70	100	400		
		3 YEARS DEGREE	ш	Digital Logic and Design MINOR COURSE- Choose from the Pool of Minor Courses offered in 3rd Semester by the other Disciplines		MAJOR MINOR	BSCCOSMJ302 See Pool	MJC-4 MNC-3	3 - 0 - 4 4 - 1 - 0	5	22	30	30	20	35 70	100			
				Choose from the Pool of Multi-Disciplinary		MD	See Pool	MD-3	2 - 1 - 0	3			15		35	50			
				Courses offered in 3rd Semester English Communication	<b>_</b>	AE	See Pool	AECC-2	4 - 0 - 0	4			15		35	50			
				English Collinumication		AL	See F 001	AECC-2	4-0-0	4			13		33	30			
													20			100	400		
				Design and Analysis of Algorithms		MAJOR	BSCCOSMI401	MJC-5	4 - 1 - 0	5			.30		70	[()()			
				Design and Analysis of Algorithms Object Oriented Design and Programming	<del>                                     </del>	MAJOR MAJOR	BSCCOSMJ401 BSCCOSMJ402	MJC-5 MJC-6	4 - 1 - 0 3 - 0 - 4	5		30	30 15	20	70 35	100			
			IV	Object Oriented Design and Programming MINOR COURSE- Choose from the Pool of Minor Courses offered in 4th Semester by the		MAJOR MAJOR MINOR					22	30		20					
			IV	Object Oriented Design and Programming MINOR COURSE- Choose from the Pool of		MAJOR	BSCCOSMJ402	MJC-6	3 - 0 - 4	5	22	30	15	20	35	100			
			IV	Object Oriented Design and Programming MINOR COURSE- Choose from the Pool of Minor Courses offered in 4th Semester by the other Disciplines	(Any One)	MAJOR MINOR	BSCCOSMJ402 See Pool	MJC-6 MNC-4	3 - 0 - 4	5	22		15	-	35	100			
				Object Oriented Design and Programming MINOR COURSE- Choose from the Pool of Minor Courses offered in 4th Semester by the other Disciplines Web Programming VALUE ADDED COURSE- Choose from the		MAJOR MINOR SEC VA	BSCCOSMJ402  See Pool  BSCCOSSE401  See Pool	MJC-6 MNC-4 SEC-3 VAC-2	3 - 0 - 4 4 - 1 - 0 0 - 0 - 6 See Pool	5 5 3 4		30	30	20 See Pool	35 70	100 100 50	n		
				Object Oriented Design and Programming MINOR COURSE- Choose from the Pool of Minor Courses offered in 4th Semester by the other Disciplines Web Programming VALUE ADDED COURSE- Choose from the Pool of VAC offered in 4th Semester		MAJOR MINOR SEC VA	BSCCOSMJ402  See Pool  BSCCOSSE401  See Pool	MJC-6 MNC-4 SEC-3 VAC-2	3 - 0 - 4 4 - 1 - 0 0 - 0 - 6 See Pool	5 5 3 4		30	30	20 See Pool	35 70	100 100 50	n 400		
				Object Oriented Design and Programming MINOR COURSE- Choose from the Pool of Minor Courses offered in 4th Semester by the other Disciplines Web Programming VALUE ADDED COURSE- Choose from the Pool of VAC offered in 4th Semester Students exiting the programmes after securing 80 of		MAJOR MINOR SEC VA warded UG Diplom	See Pool  BSCCOSSE401  See Pool  a in the relevant Discipline	MJC-6  MNC-4  SEC-3  VAC-2  /Subject provided th	3 - 0 - 4 4 - 1 - 0 0 - 0 - 6 See Pool	5 5 3 4 ditional 4 cre		30	30 courses offered d	20 See Pool uring first year	35 70 r or second year	100 100 50 summer term			
				Object Oriented Design and Programming MINOR COURSE- Choose from the Pool of Minor Courses offered in 4th Semester by the other Disciplines Web Programming VALUE ADDED COURSE- Choose from the Pool of VAC offered in 4th Semester Students exiting the programmes after securing 80 couplings.		MAJOR MINOR  SEC VA  warded UG Diplom  MAJOR	BSCCOSMJ402  See Pool  BSCCOSSE401  See Pool  a in the relevant Discipline.  BSCCOSMJ501	MJC-6 MNC-4 SEC-3 VAC-2 /Subject provided th	3 - 0 - 4 4 - 1 - 0 0 - 0 - 6 See Pool sey secure add 3 - 0 - 4	5 5 3 4 ditional 4 cre 5		30 ased vocational	15 30 courses offered d	20 See Pool uring first year 20	70 r or second year	100 100 50 summer tern 100			

co	OMPUTER																				
RCCH	SCIENCE																				
			Crytography and Network Security	MAJOR	BSCCOSMJ601	MJC-10	4 - 1 - 0	5			30		70	100	4.						
			Theory of Computation	MAJOR	BSCCOSMJ602	MJC-11	4 - 1 - 0	5			30		70	100							
		VI	Computer Graphics	MAJOR	BSCCOSMJ603	MJC-12	3 - 0 - 4	5	22	30	15	20	35	100							
			Software Engineering	MAJOR	BSCCOSMJ603	MJC-13	3 - 0 - 4	5		30	15	20	35	100							
			Summer Internship	SI	BSCCOSSI601	SI-1	0 - 0 - 4	2		15		35		50							
			Total Credit and Marks	TOTAL CREDIT					126	TOTAL MARKS					#REF!						
			Stude	ents who want to undertake 3-year	r UG programme will b	e awarded UG De	gree in the rel	evant Disc	ipline / Subje	ect upon securii	ng 126 credits										
			Data Mining	MAJOR	BSCCOSMJ-701	MJC-14	4 - 1 - 0	5			30		70	100							
			Internet of Things	MAJOR	BSCCOSMJ-702	MJC-15	4 - 1 - 0	5			30		70	100							
			Artificial Intelligence and Machine Learning	MAJOR	BSCCOSMJ-703	MJC-16	3 - 0 - 4	5		30	15	20	35	100							
		VII	Embedded System	MAJOR	BSCCOSMJ-704	MJC-17	3 - 0 - 4	5	25	30	15	20	35	100	500						
	4 VEA BE DECIDE	E.	MINOR COURSE- Choose from the Pool of Minor Courses offered in 7th Semester by the other Disciplines	MINOR	See Pool	MNC-6	4 - 1 - 0	5			30		70	100							
	4 YEARS DEGRI WITH HONOUR																				
	WITH HONOUR	•	Data Analytics	MAJOR	BSCCOSMJ-801	MJC-18	3 - 0 - 4	5		30	15	20	35	100							
			Cloud Computing	MAJOR	BSCCOSMJ-802	MJC-19	3 - 1 - 0	4	1		30		70	100							
			Cyber Security and Cyber Law	MAJOR	BSCCOSMJ-803	MJC-20	3 - 1 - 0	4	Ī		30		70	100	1						
		VIII	Mobile Application Development	MAJOR	BSCCOSMJ-804	MJC-21	3 - 1 - 0	4	22		30		70	100	500						
			MINOR COURSE- Choose from the Pool of Minor Courses offered in 8th Semester by the other Disciplines	MINOR	See Pool	MNC-7	4 - 1 - 0	5			30		70	100							
			Total Credit and Marks	TOTAL CREDIT					173	TOTAL MARKS					#REF!						
		Students will be awarded UG Degree (Honours) in the relevant Discipline / Subject provided they secure 173 credits																			
			Data Mining	MAJOR	BSCCOSMJ-701	MJC-14	3 - 0 - 4	5			30		70	100							
			Internet of Things	MAJOR	BSCCOSMJ-702	MJC-15	4 - 1 - 0	5			30		70	100							
			Artificial Intelligence and Machine Learning	MAJOR	BSCCOSMJ-703	MJC-16	3 - 0 - 4	5		30	15	20	35	100							
		VII	Embedded System	MAJOR	BSCCOSMJ-704	MJC-17	3 - 0 - 4	5	25	30	15	20	35	100	500						
	4 YEARS DEGRI	E	MINOR COURSE- Choose from the Pool of Minor Courses offered in 7th Semester by the other Disciplines	MINOR	See Pool	MNC-6	4 - 1 - 0	5			30		70	100							
	WITH HONOUR WITH RESEARC																				
	WIII KESEARC		Data Analytics	MAJOR	BSCCOSMJ-801	MJC-18	3 - 0 - 4	5		30	15	20	35	100							
			RESEARCH METHODOLOGY	RP	BSCCOSRP-801	RP-1	4 - 0 - 0	4	1		15		35	50							
			RESEARCH PROJECT / DISSERTATION	RP	BSCCOSRP-802	RP-2	0 - 0 - 16	8	1	150		100		250							
		VIII	MINOR COURSE- Choose from the Pool of		C. D. J	MNC-7	4 - 1 - 0	5	22		30		70	100	500						
			Minor Courses offered in 8th Semester by the other Disciplines	MINOR	See Pool	MINC-7	4-1-0	3			50		70	100							
				MINOR	TOTAL		4-1-0		173			TAL MARKS		100	#REF!						

Abbreviations: MJC-= Major (Core); AE= Ability Enhancement; AECC= Ability Enhancement Compulsory Course; MNC= Minor (Core); SE= Skill Enhancement; SEC= Skill Enhancement Course; MD= Multidisciplinary Course; SI - Summer Internship; RP= Research Project; VAC= Value Added Course; CA= Continuous Assessment, ESE= End Semester Examination, L= Lecture Hour; T= Tutorial Hour and P= Practical Hour/ Field Work and NA= Not Applicable

Note: Minor Courses (MNC): Student of a particular UG Course will choose from the Pool of Minor Courses offered by disciplines other than the major discipline opted by the student. The student is required to opt the same Minor Course (designed for 2nd semester) which he had opted in 1st semester ie, the student will continue studying the same minor course, opted in the 1st semester. Explanation: If a student of COSSICS Major, opts for a Minor Course offered by Chemistry in 1st semester then that student is required to continue with the corresponding Minor Course offered by Chemistry for 2nd semester as Minor Course in the 2nd semester.

	Semesterwise Pool of Minor Courses offered by this Discipline for other Honours Disciplines														
Discipline	Semester	Course Name	C T	Course Code	Course Details	L - T - P	Course Credit	Sem Credit	CA Marks		ESE N	Aarks	Total Marks	Com Monka	
Discipline	Semester	Course Name	Course Type	Course Coue					Practical	Theoretical	Practical	Theoretical	Total Marks	Sem Marks	1
	I	Introduction to Programming using C	Minor	BSCCOSMN101	MNC-1	3 - 0 - 4	5		30	15	20	35			1
	II	Data Structures and Algorithms	Minor	BSCCOSMN201	MNC-2	3 - 0 - 4	5		30	15	20	35			
	III	Computer Architecture and Organization	Minor	BSCCOSMN301	MNC-3	3 - 0 - 4	5		30	15	20	35			1
Minor	IV	Database Management System	Minor	BSCCOSMN401	MNC-4	3 - 0 - 4	5		30	15	20	35	100	NA	1
	V	Operating System and Shell Scripts	Minor	BSCCOSMN501	MNC-5	3 - 0 - 4	5	-	30	15	20	35	1		1
	VII	Computer Networks	Minor	BSCCOSMN701	MNC-6	3 - 0 - 4	5		30	15	20	35			1
	VIII	Artifical Intelligence and Machine Learning	Minor	BSCCOSMN801	MNC-7	3 - 0 - 4	5		30	15	20	35	Ī		1

		Semester wise F	ool of Mult	idisciplinary Co	urses offered by t	<u>his Discipline fo</u>	or other D		<u> </u>						
Discipline	Semester	Course Name		Course Type	Course Code	Course Details	L - T - P	Course	Sem Credit		Aarks		Marks	Total	Sem Mar
Discipline	Schiester			Course Type	Course Code C	Course Detains		Credit	Sem Credit	Practical	Theoretical	Practical	Theoretical	Marks	Jein Mai
		Physical Science((From Physics)		_	MDC101		3 - 0 - 0			`	15		35		
		E-Commerce(From BBA)			MDC102		3 - 0 - 0				15		35		
		Human Rights(From Political Science)			MDC103		3 - 0 - 0				15		35		
		Disaster Management (From Geography)			MDC104		3 - 0 - 0				15		35		
		Fitness And Wellness (From Physical Education)			MDC105		3 - 0 - 0				15		35		
		Application Of Bio-Science (From Zoology)			MDC106		3 - 0 - 0				15		35		
		Film Appreciation (From English)	(Any One)		MDC107		3 - 0 - 0				15		35		
		Accounting For All (From Commerce)			MDC108		3 - 0 - 0		3		15		35	1	
		History Of Ancient Bengal (From History)			MDC109	MD-1	3 - 0 - 0				15		35		
	ī	Bangla Sahitya O Sanskriti(From Bengali)			MDC110		3 - 0 - 0	3			15		35	50	
	-	Money And Banking (From Economics)			MDC111		3 - 0 - 0	3			15		35		
		Patrakarita (From Hindi)			MDC112		3 - 0 - 0				15		35		
		Business Mathematics (Mathematics)			MDC113		3 - 0 - 0				15		35		
		Indian Society (From Sociology)			MDC114		3 - 0 - 0				15		35		
		Yoga For Daily Life (Philosophy)			MDC115		3 - 0 - 0				15		35		
		Electronic Measurements (Electronics)			MDC116		3 - 0 - 0				15		35		
		Information And Communication Technology From Computer Sc)			MDC117		3 - 0 - 0				15		35		
		Introduction To Local Flora (Dept Of Botany)			MDC118		3 - 0 - 0				15		35		
		Information And Media Literacy			MDC119		3 - 0 - 0				15		35		
						1									
1		Mathematical Science (From Mathematics)			MDC201		3 - 0 - 0				15		35		
		Business Environment (From BBA)			MDC202		3 - 0 - 0				15		35		
		Basic Statistics (Statistics)			MDC203	ļ	3 - 0 - 0				15		35	'	
		Cultural History of Bengal (From History)			MDC204		3 - 0 - 0				15		35		
		Personal Finance (From Commerce)			MDC205		3 - 0 - 0				15		35		
MULTI DISCIPLINARY		Nutrition And Public Health (From Nutrition)			MDC206		3 - 0 - 0		NA		15		35		
		Educational Philosophy (From Education)			MDC207		3 - 0 - 0				15		35		
		Stress Management (From Psychology)			MDC208		3 - 0 - 0				15		35		
	ш	Social Media and Cyber Awareness (From Computer Science)	(Any One)		MDC209	MD-2	3 - 0 - 0	3			15		35	50	
	11	Adhunik Bangla Sahitya (From Bengali)	(Ally Oile)		MDC210	IVID-2	3 - 0 - 0	3			15		35	50	

		Nazrul Sangeet (Nazrul Sangeet)  E-Waste Management (Electronics)  Chemical Science (Chemistry)  Critical Survey of Sanskrit Language (Sanskrit)  Asnaf- E -Adab (Dept of Urdu)  Anuvad Vigyan (Deptt. Of Hindi)  Herbal Home Remedies (Dept of Botany)			MDC211  MDC212  MDC213  MDC214  MDC215  MDC216  MDC217		3-0-0 3-0-0 3-0-0 3-0-0 3-0-0 3-0-0 3-0-0				15 15 15 15 15 15 15		35 35 35 35 35 35 35 35		
		Bharatavarsha—A Land of Rare Natural Endowments (From Geography) The Vedangas and Other Streams of Indian			MDC301		3 - 0 - 0				15		35 35		
		Knowledge System (From Sanskrit)				MD-3					_				
		Indian Astronomy (From Physics) Indian Health Sciences (From Zoology)			MDC303 MDC304		3 - 0 - 0	_			15 15		35 35	50	
	III	Indian Mathematics (From Mathematics)	(Any One)		MDC304 MDC305		3-0-0	3			15		35		
		Indian Education (From Education)			MDC306		3 - 0 - 0				15		35		
		Indian Polity and Economy (From Political Sc)			MDC307		3 - 0 - 0				15		35		
		Methodology Of Indian Knowledge System (Philosophy)			MDC308		3 - 0 - 0				15		35		
		Pool of	Communicati	on Courses offered a	s Ability Enhancement	Courses in the SE	MESTER-I								
Discipline	Semester	Course Name		Course Type	Course Code	Course Details	L-T-P	Course	Sem Credit	CA N	<b>I</b> arks	ESE I	Marks	Total	Sem Marks
Discipline	Semester		ı	Course Type		Course Details		Credit	Sem Creuit	Practical	Theoretical	Practical	Theoretical	Marks	Sem warks
		English Communication			AECE101		4 - 0 - 0				15		35	50	
English/MIL Communication	I	Bengali Communication Hindi Communication	(Any One)	AE	AECB101 AECH101	AEC-1	4 - 0 - 0	4	NA		15 15		35 35		NA
		Urdu Communication			AECU101		4-0-0				15		35		
		Orda Communication			ALCOIOI		4-0-0				15		33		
			Pool	of Value Added Co	urses offered in the SI	EMESTER-IV									
Discipline	Semester	Course Name		Course Type	Course Code	Course Details	L - T - P	Course	Sem Credit	CA N			Marks	Total	Sem Marks
•		Yoga And Health (From Physiology)	l		VAC401		4 - 0 - 0	Credit		Practical	Theoretical 15	Practical	Theoretical 35	Marks	
		Social Values and Ethics (From Philosophy)			VAC401 VAC402		4-0-0				15		35		
		Digital And Technological Solutions (From Computer Science)			VAC403		4 - 0 - 0				15		35		
VALUE ADDED	IV	Understanding India (From History)	(Any One)		VAC404	VAC-2	4 - 0 - 0	4	NA		15		35	50	NA
	1	Sustainable Development: Issues And Challenges (From Economics)	(zmy one)		VAC405	771C Z	4 - 0 - 0	-	1111		15		35	30	1111
		Goods And Services Tax (From Commerce)			VAC406		4 - 0 - 0				15		35		
		Basics of Indian Constitution (From Political Science)			VAC407		4 - 0 - 0				15		35		