Shahid Matangini Hazra Government General Degree College for Women Teaching Assignment and Lesson Plan Academic Session: 2022-2023 Semester: Second

Course: Core Course

Name of the	Title of the	Dividing the	Date of	Number of	Total number
Teacher	teaching	assignment into	commencement of		
	assignment	number of units	the assignment	_	required to
		along with		_	complete the
		detailed lesson			assignment
		plan as per the			assignment
		university			
		syllabus			
Deepankar	Real	Dividing the	05.04.2023	16	38
Das	Analysis(C3T)	assignment into	03.04.2023	10	36
Das	Allalysis(C51)	number of units			
		along with			
		detailed lesson			
		plan as per the			
		university			
		syllabus			
		Unit-I(Real		09	
		numbers, Bolzano-			
		Weierstrass			
		theorem, Heine-			
		Borel Theorem.)	- -		
		Unit-II(Sequences)	<u> </u>	10	
		Unit-III(Series)		03	
Dr. Sambhu	Differential	Unit-IV(Graphical	05.04.2023	10	38
Charan	Equations and	Demonstration)			
Barman	Vector	Unit-I(General		12	
	Calculus(C4T)	solution of			
		homogeneous			
		equation of second			
		order, Linear			
		homogeneous and			
		non-homogeneous			
		equations of higher order with constant			
		coefficients, Euler's			
		equation, method of			
		undetermined			
		coefficients, method			
		of variation of			
		parameters)			
		Unit-II(Solution of		08	
		simultaneous			
		equations)			
		Unit-III(phase	1	06	1
		plane Power series			
		solution of a			
		differential			
		equation)			
		Unit-IV(Triple	1	02	1
		product of vectors,			
		vector functions,			
		limits and			

continuity,	
differentiation and	
integration of vector	
functions)	

Shahid Matangini Hazra Government General Degree College for Women Teaching Assignment and Lesson Plan Academic Session: 2022-2023 Semester: Second

Course: General Elective

Name of the	Title of the	Dividing the	Date of	Number of	Total number
Teacher	teaching	assignment into	commencement of	classes required	of classes
	assignment	number of units	the assignment	to complete	required to
		along with		each unit	complete the
		detailed lesson			assignment
		plan as per the			
		university			
		syllabus			
Deepankar	Algebra	Unit-I	06.04.2023	10	38
Das	(GE-2T)	(complex numbers,			
		De Moivre's			
		theorem, Theory of			
		equations,			
		Inequality)			
		Unit-II		09	
		(Equivalence			
		relations. Functions,			
		Well-ordering			
		property of positive			
		integers, division			
		algorithm,			

_				
		Euclidean		
		algorithm.		
		Congruence.		
		Principles of		
		Mathematical		
		induction,		
		Fundamental		
		Theorem of		
		Arithmetic)		
Dr. Sambhu	Algebra (GE-2T)	Unit-III(solution	07.04.2023	06
Charan		sets of linear		
Barman		systems,)		
		Unit-IV		13
		(linear		
		transformations,		
		Subspaces, rank of		
		a matrix, Eigen		
		values, eigen		
		vectors, Cayley-		
		Hamilton theorem)		

Shahid Matangini Hazra Government General Degree College for Women Teaching Assignment and Lesson Plan Academic Session: 2022-2023

Semester: Second

Course: B.Sc. General

Name of the Teacher	teaching assignment	Dividing the assignment into number of units along with detailed lesson plan as per the	commencement of the assignment	classes	Total number of classes required to complete the
		university syllabus		each unit	assignment
Deepankar Das	Equations (CC-2, DSC1BT)	Exact differential equations, Integrating Factors, rules to find an integrating factor, First order higher degree equations solvable for x,y,p. Methods for solving higher order differential equations. linear differential equations, solution of Linear homogeneous and non- homogeneous equations with constant co-efficients	22.04.2023	16	32
Dr. Sambhu Charan Barman	Equations (CC-2, DSC1BT)	The method of variation of parameters, The Cauchy-Euler equation. Simultaneous differential equations, partial differential equations, Lagrange's method, Charpit's method, second order partial differential	23.04.2023	16	

Shahid Matangini Hazra Government General Degree College for Women Teaching Assignment and Lesson Plan Academic Session: 2022-2023

Semester: Fourth

Course: Core Course

Name of the	Title of the	Dividing the	Date of	Number of	Total number
Teacher	teaching	assignment into	commencement of		
Cacilei	assignment	number of units	the assignment	to complete	required to
	ussignment	along with	ane assignment	each unit	complete the
		detailed lesson		Cacii uiiit	assignment
					assignment
		plan as per the			
		university			
		syllabus			
Deepankar	Riemann	Unit-I(Riemann	02.03.2023	12	40
Das	Integration and	integration,			
	series of	Intermediate Value			
	functions (C8T)	theorem for			
		Integrals;			
		Fundamental			
		theorem)	-	0.0	
		Unit-II(Improper		08	
		integrals)	-		
		Unit-III		08	
		(Convergence of			
		sequence of			
		functions.			
		continuity,			
		derivability and			
		integrability Series			
		of functions;			
		Cauchy criterion, Weierstrass M-			
		Test.)	-	06	
		Unit-IV		06	
		(Fourier series)	-	0.4	
		Unit-V(Power		06	
		series)			
	Multivarite	Unit-I(Functions of	28.05.2023	12	20
	Calculus(C9T)	several variables,			
		limit and continuity			
		Partial			
		differentiation,			
		directional			
		derivatives, the			
		gradient,			
		optimization)	-	08	1
		Unit-IV(Green's		08	
		theorem, Stoke's			
		theorem,			
		Divergence theorem)			
	Computer	Unit 1(rings,	20.06.2023	06	18
	Computer	subrings, integral	20.00.2023	00	10
	Graphics (SEC-	domains, fields,			
	2T)	Ideal)			
		Unit 2(Ring	1	06	1
		homomorphisms,		00	
	1	momorphisms,	1	<u> </u>	

		Isomorphism theorems I, II and III, field of quotients) Unit-IV (Linear transformations, , matrix representation of a linear transformation, Isomorphism)		06	
Dr. Sambhu Charan Barman	Multivariate Calculus(C9T)	Unit-II(Double integration, triple integration)	28.02.2023	12	20
		Unit-III(vector field, divergence and curl. Line integrals)		08	
	Ring Theory and		12	40	
	Linear Algebra-I			08	
	(C10T)	Unit-III (Vector spaces, subspaces, basis and dimension)		11	
				09	
	Graph Theory (SEC-2T)	Unit-I(Basic terminologies of graphs)	31.03.2023	06	18
		Unit-II(Eulerian graph, Hamiltonian graph Representation of a graph by matrix)		06	
		Unit-III (TSP, shortest path, Tree Dijkstra's algorithm, Warshall algorithm)		06	

Shahid Matangini Hazra Government General Degree
College for Women
Teaching Assignment and Lesson Plan
Academic Session: 2022-2023 Semester: Fourth
Course: B.Sc. General

Teacher	teaching assignment	Dividing the assignment into number of units along with detailed lesson plan as per the university syllabus	commencement of the assignment		Total number of classes required to complete the assignment
Das	Differential Equations (CC-4, DSC1DT)	Rings, Integral Domain, Fiels	10.03.2023	16	32
Charan	Equations (CC-4, DSC1DT)	Groups, Cyclic groups the general linear group GLn (R), groups of symmetries Subgroups, Cosets, Index of subgroup, Lagrange's theorem, Normal subgroups: Quotient groups.	11.03.2023	16	

Shahid Matangini Hazra Government General Degree College for Women Teaching Assignment and Lesson Plan Academic Session: 2022-2023

Semester: Sixth Course: Core Course

Name of the	Title of the	Dividing the	Date of	Number of	Total number
Teacher	teaching	assignment into	commencement of		
	assignment	number of units		to complete	required to
	assignment	along with		each unit	complete the
		detailed lesson			assignment
		plan as per the			assignment
		university			
		syllabus			
Deepankar	Ring Theory and	- J	11.02.2023	15	45
Das		Field)	11.02.2023		
	II	Unit-II(Dual spaces		15	
	(C14T)	& Eigen Spaces)			
	(0111)	Unit-III(Inner	-	15	
		product spaces,			
		Least square			
		approximation &			
		Spectral theorem)			
	Number Theory	Unit-I(prime	29.03.2023	15	42
	(DSE3T)	counting function,			
	(25251)	linear congruences,			
		residues, Chinese			
		remainder theorem,			
		Fermat's little			
		theorem, Wilson's			
		theorem)			
		Unit-II		14	
		(Dirichlet product,			
		Mobius Inversion			
		formula, greatest			
		integer function,			
		Euler's phi-			
		function, Euler's			
		theorem, reduced set			
		of residues)	-	13	
		Unit-III(primitive roots for primes and		13	
		composite numbers,			
		Euler's criterion,			
		Legendre symbol			
		quadratic			
		congruence's,			
		Public key			
		encryption, RSA			
		encryption and			
		decryption)			
	Bio-		09.05.2023	14	42
	Mathematics			13	
	(DSE4T)			15	
Dr. Sambhu	Metric Space and	Unit-I	10.01.2023	08	46
Charan	Complex	(Sequences in			
Barman	-	metric spaces)			
<u> </u>		- T/	1	1	1

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		Unit-II		12	
		(continuous			
		mapping,			
		Connectedness,			
		Compactness)			
		Unit-III(limit,	-	06	
		continuity of			
		functions of			
		complex variable)	-	00	
		Unit-IV(Analytic		08	
		functions,			
		differentiation and			
		integration of			
		functions of			
		complex variable)			
		Unit-		07	
		V(Convergence of			
		sequences and			
		series)			
		Unit-VI(absolute		05	
		and uniform			
		convergence of			
		power series)			
			-		
			-		
	Mathematical	Unit I(solution of	27.01.2023	22	44
		Unit-I(solution of Bessel's equation	21.01.2023	44	F 1'1
	Modelling	and Legendre's			
	(DSE4T)				
		equation, Laplace transform)			
			-	22	
		Unit-II(Monte		22	
		Carlo simulation			
		modelling,			
		Simulation,			
		optimization			
		modelling, Linear			
		programming			
		model, sensitivity			
		analysis)			