

Maulana Azad College
Department of Mathematics
Teaching / Lesson Plan 2020-21, Undergraduate Mathematics (Hons. & General) under CBCS, 2018

Semester	Period of Semester	Tentative Dates of University Exam*	Name of the Faculty	Course Code	Paper Name	Brief Description of the Topics	No. of Lectures	
Sem-1 (CC1)	July' 20 - Dec.' 20	Follow the latest notification by CU	Dr. Nanda Das	CC1-(TH+TU)	Calculus, Geometry & Vector Analysis	Unit-1: Calculus	25+5	
			Dr. Kartik Chandra Basak			Unit-2: Geometry-2D	10	
			Dr. Babli Saha			Unit-2: Geometry-3D	20	
			Dr. Somnath Bandyopadhyay			Unit-3: Vector Analysis	15	
			Dr. Somnath Bandyopadhyay	CC2-(TH+TU)	Algebra	Unit-1: Complex Number, Theory of Equation, Inequality, Linear difference Equation.	30	
			Dr. Babli Saha			Unit-3: Matrix Algebra, Solution of System of Linear Equations.	15	
			Dr. Somnath Bandyopadhyay			Unit-2: Relation, Mapping and Integers.	30	
			Dr. Nanda Das	GE1-(TH+TU)	Mathematics-GE1	Unit-1: Algebra-I	10	
			Dr. Kartik Chandra Basak			Unit-2: Differential Calculus-I	20	
			Dr. Nanda Das			Unit-3: Differential Equation-I	10	
			Dr. Somnath Bandyopadhyay			Unit-4: Coordinate Geometry	20	
Sem-2 (CC3)	Jan' 21-June' 21	Dr. Somnath Bandyopadhyay	Dr. Somnath Bandyopadhyay	CC3-(TH+TU)	Real Analysis	Unit-1: Real Numbers	30	
			Dr. Babli Saha			Unit-2: Real Sequence	30	
			Dr. Babli Saha	CC4-(TH+TU)	Group Theory-I	Unit-3: Infinite Series	10+5	
			Dr. Somnath Bandyopadhyay			Unit-1: Group & Subgroup	30	
Sem-2 (CC4)		Dr. Nanda Das	Dr. Nanda Das			Unit-2: Cyclic Group	25	
			Dr. Kartik Chandra Basak			Unit-3: Normal Subgroup	20	
			Dr. Nanda Das	GE2-(TH+TU)	Mathematics GE2	Unit-1: Differential Calculus-II	15	
			Dr. Somnath Bandyopadhyay			Unit-2: Differential Equation-II	10	
Sem-2 (GE2)		Dr. Somnath Bandyopadhyay	Dr. Somnath Bandyopadhyay			Unit-3: Vector Algebra	10	
			Dr. Somnath Bandyopadhyay			Unit-4: Discrete Mathematics	25	

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Sem-3 (CC5)	Follow the latest notification by CU	July' 20 - Dec' 20	Dr. Somnath Bandyopadhyay	CC3-(TH+TU)	Theory of Real Functions	Unit-1: Limit and Continuity of functions	40
Dr. Babli Saha			Unit-2: Differentiability of Functions				35
Sem-3 (CC6)			Dr. Somnath Bandyopadhyay	CC4-(TH+TU)	Ring Theory & Linear Algebra-I	Unit-1: Ring Theory	35
Dr. Babli Saha			Unit-2: Linear Algebra				40
Sem-3 (CC-7)			Dr. K. C. Basak	CC6-(TH+TU)	ODE & Multivariate Calculus-I	Unit-1: Ordinary Differential Equation	40
Dr. Nanda Das			Unit-2: Multivariate Calculus-I				35
Sem-3 (SEC-A1)			Dr. Nanda Das	SEC-A1-TH	C-Programming Language	History of Computer, Constants, Variables & Data type of C-Program, Decision making and Branching, Control Statements, Array, User defined functions, Library functions.	30
Sem-3 (GE-3)			Dr. Babli Saha	GE3-(TH+TU)	Mathematics-GE3	Unit-1: Integral Calculus	10
Dr. K.C. Basak			Unit-2: Numerical Methods				25
Dr. Somnath Bandyopadhyay			Unit-3: Linear Programming (Theory)				10
Dr. Nanda Das			Unit-3: Linear Programming (Theory)				15
Sem-4 (CC8)	Follow the latest notification by CU	Jan' 21- Jun' 21	Dr. Somnath Bandyopadhyay	CC8-(TH+TU)	Riemann Integration and Series of Functions	Unit-1: Riemann Integration	35
Dr. Babli Saha			Unit-3: Power Series				5
Dr. K.C. Basak			Unit-2: Improper Integral				10
Dr. Nanda Das			Unit-3: Sequence of Functions, Series of Functions and Fourier Series.				25
Sem-4 (CC9)			CC9-(TH+TU)	PDE & Multivariate Calculus-II	Mechanics	Unit-1: Partial Differential Equation.	40
Dr. Nanda Das			Unit-2: Multivariate Calculus-II				35
Sem-4 (CC10)			Dr. Kartik Chandra Basak	CC10-(TH+TU)	Mechanics	Unit-3: Kinematics of a Particle, Newton Laws of motion and Law of gravitation.	20
Dr. Nanda Das			Unit-4: Problems in particle dynamics, Planar motion of a particle, Motion of a particle in 3D.				20
Dr. Kartik Chandra Basak			Unit-1: Coplanar forces, Force system in space, Friction				15
Dr. Nanda Das			Unit-2: Virtual work, Stability of equilibrium.				10
Dr. Kartik Chandra Basak			Unit-5: Many particles system				10
Sem-4 (SEC-B)			SEC-B-TH	Scientific Computing with Sage Math.	Mathematics GE4	Numeric Computation, Plotting of functions, Programming and Applications.	30
Dr. Babli Saha			GE4-(TH+TU)			Unit-1: Algebra-II (Vector Space)	10
Dr. Somnath Bandyopadhyay			GE4-(TH+TU)			Unit-1: Algebra-II (Group Theory, Ring and Field)	10
Dr. Nanda Das			GE4-(TH+TU)			Unit-2: Computer Science and Programming.	15
D. K. C. Basak			GE4-(TH+TU)			Unit-3: Probability and Statistics	25

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Sem-5 (CC11)	July'20 - Dec.'20	Follow the latest notification by CU	Dr. Kartik Chandra Basak	CC11-(TH+TU)	Probability & Statistics	Unit-1: Basic theory, Distribution-I, Expectation-I.	20	
			Dr. Nanda Das			Unit-2: Distribution-II, Expectation-II.	15+5	
Sem-5 (CC12)			Dr. Somnath Bandyopadhyay	CC12-(TH+TU)	Group Theory-II & Linear Algebra-II	Unit-3: Convergence in Probability.	5	
			Dr. Babli Saha			Unit-4: Sampling Distribution, Estimation of Parameters.	15	
Sem-5 (DSE-A1)			Dr. Nanda Das	DSE-A1 (TH+TU)	Bio Mathematics	Unit-5: Statistical Hypothesis.	15	
			Dr. Babli Saha			Unit-1: Group Theory	35	
Sem-5 (DSE-B1)			Dr. Somnath Bandyopadhyay	DSE-B1 (TH+TU)	Linear Programming & Game Theory	Unit-2: Linear Algebra	40	
						Unit-1: Math. Biology and Modelling process.	25	
Sem-6 (CC13)	Jan'21- Jun'21	Follow the latest notification by CU	Dr. Somnath Bandyopadhyay	CC13-(TH+TU)	Metric Space & Complex Analysis	Unit-2: Activator and Inhibitor system model.	30	
			Dr. Babli Saha			Unit-3: Discrete models.	15+5	
Sem-6 (CC14)			Dr. Kartik Chandra Basak	CC14-(TH)	Numerical Methods	Unit-1: Formulation and Basic theory of LPP.	15	
			Dr. Nanda Das			Unit-2: Simplex method, Two-phase method.	20	
Sem-6 (DSE-A2)			Dr. Nanda Das	CC14-P		Unit-3: Duality Theory and applications.	10	
			Dr. Kartik Chandra Basak			Unit-4: Transportation and Assignment problems and Game Theory.	30	
Sem-6 (DSE-B2)			Dr. Somnath Bandyopadhyay	DSE-A2	Fluid Statics & Elementary Fluid Dynamics	Unit-1: Metric Space	40	
			Dr. Babli Saha			Unit-2: Complex Analysis	35	
						Unit-1: Error & Numerical Algorithms	5	
						Unit-2: Approximation and Interpolation	15	
						Unit-3: Differentiation and Integration.	10	
						Unit-4: Solution of Transcendental Equations.	10	
						Unit-5: Solution of linear system of equations.	10	
						Unit-6: Solution of ODE	5	
						Using C Programming (Computer Lab)	20	
						Unit-1: Introduction and Fundamental Concepts.	20	
						Unit-2: Hydrostatics and Gas	25	
						Unit-3: Kinematics of Fluid	15	
						Unit-4: Conservation Equations.	15	
						Unit-1: Topological Space, basis up to isometry and metric invariants.	35	
						Unit-2: First Countability, etc. up to Heine's continuity criterion.	15	
						Unit-3: Connected Spaces, etc. up to Bolzano- Weierstrass property of metric space X.	25	

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