Maulana Azad College Department of Mathematics

Teaching / Lesson Plan 2019-2020, Undergraduate Mathematics (Honours and General)

CBCS (2018) and (1+1+1 System-2009)

Semester	Period of Semester	Tentative Dates of University Exam* (*Follow the latest	Name of the Faculty	Course Code	Paper Name	Brief Description of the Topics	No. of Lectures
		notification by CU)					
			Dr. Nanda Das			Unit-1: Calculus	25+5
				CC1-(TH+TU)	Calculus,	Unit-2: Geometry-2D	10
Sem-1 (CC1)		Follow the latest notification by CU	Dr. Kartik Chandra Basak		Vector Analysis	Unit-2: Geometry-3D	20
	19					Unit-3: Vector Analysis	15
Sem-1	ec.'		Dr. Babli Saha	CC2-(TH+TU)		Unit-1: Complex Number, Theory of Equation, Inequality, Linear difference Equation.	30
(CC2)	- D				Algebra	Unit-3: Matrix Algebra, Solution of System of Linear Equations.	15
	, 19		Dr. Somnath Bandyopadhyay			Unit-2: Relation, Mapping and Integers.	30
6 1	lly		Dr. Somnath			Unit-1: Algebra-I	10
Sem-1 (GF1)	Ju		Bandyopadhyay	-	Mathematics-GE1		
(GEI)			Dr. Babli Saha	GE1-(TH+TU)		Unit-2: Differential Calculus-I	20
			Dr. Kartik Chandra Basak			Unit-3: Differential Equation-I	10
			Dr. Nanda Das			Unit-4: Coordinate Geometry	20
Sem-2 (CC3)			Dr. Somnath	CC3-(TH+TU)	Real Analysis	Unit-1: Real Numbers	30
		Follow the latest notification by CU	Bandyopadhyay			Unit-2: Real Sequence	30
	03	nouncation by CC				Unit-3: Infinite Series	10+5
G			Dr. Babli Saha	CC4-(TH+TU)	Group Theory-I	Unit-1: Group & Subgroup	30
CC4)	June					Unit-2: Cyclic Group	25
						Unit-3: Normal Subgroup	20
	-07		Dr. Babli Saha			Unit-1: Differential Calculus-II	15
Sem-2 (GE2)	n, 2		Dr. Kartik Chandra Basak	GE2-(TH+TU)	Mathematics GE2	Unit-2: Differential Equation-II	10
	Ja		Dr. Nanda Das			Unit-3: Vector Algebra	10
			Dr. Somnath Bandyopadhyay			Unit-4: Discrete Mathematics	25

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Sem-3 (CC6) Dr. Babli Saha Dr. Babli Saha Unit-2: Differentiability of Functions 35 Sem-3 (CC7) Dr. Babli Saha CC4-(TH+TU) Ring Theory & Linear Algebra-I Unit-2: Linear Algebra 40 Sem-3 (CC7) Dr. Babli Saha CC6-(TH+TU) ODE & Multivariate Unit-1: Ordinary Differential Equation 40 Sem-3 (CC7) Dr. Nanda Das CC6-(TH+TU) ODE & Multivariate Unit-2: Multivariate Unit-2: Multivariate 01 Sem-3 (GE-3) Dr. Babli Saha CC6-(TH+TU) ODE & Multivariate Unit-2: Multivariate Unit-2: Multivariate 01 Sem-3 (GE-3) Dr. Nanda Das SEC-A1-TH C-Programming Language 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. Nanda Das Dr. Nanda Das Dr. Nanda Das Unit-3: Linear Programming (Theory) 10 Dr. Nanda Das Dr. Nanda Das Dr. Nanda Das Unit-3: Linear Programming (Theory) 15 Dr. Nanda Das Dr. Somnath Bandyopadhyay CC8-(TH+TU) Riemann Integration and Series of Unit-1: Riemann Integration 35
Sem-3 (CC6) Dr. Somnath Bandyopadhyay CC4-(TH+TU) Ring Theory & Linear Algebra-I Unit-1: Ring Theory 35 Sem-3 (CC7) Dr. Babli Saha Dr. K. C. Basak CC6-(TH+TU) ODE & Multivariate Calculus-I Unit-1: Ordinary Differential Equation 40 Sem-3 (SEC-A1) Dr. Nanda Das SEC-A1-TH C-Programming Language Costants, 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 No. Nanda Das Dr. Nanda Das GE3-(TH+TU) Riemann Integration 10 10 Dr. Nanda Das Dr. Nanda Das GE3-(TH+TU) Riemann Integration 10 10 Nuit-3: Linear Programming (Theory) Dr. Somnath Bandyopadhyay CC8-(TH+TU) Riemann Integration 10 10 Nuit-3: Linear Programming (Theory) Dr. Somnath Bandyopadhyay CC8-(TH+TU) Riemann Integration 11 11
Sem-3 (CC7) Dr. Babli Saha Dr. Babli Saha Unit-2: Linear Algebra 40 Sem-3 (SEC- A1) Dr. Nanda Das Dr. Nanda Das CC6-(TH+TU) ODE & Multivariate Calculus-I Unit-1: Ordinary Differential Equation 40 Sem-3 (SEC- A1) Dr. Nanda Das Dr. Nanda Das SEC-A1-TH Dr. Programming Language 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 Dr. Nanda Das GE3-(TH+TU) Mathematics-GE3 Unit-1: Integral Calculus 10 Dr. Nanda Das Dr. Sonnath Bandyopadhyay CC8-(TH+TU) Mathematics-GE3 Unit-3: Linear Programming (Theory) 10 Dr. Nanda Das Dr. Sonnath Bandyopadhyay CC8-(TH+TU) Riemann Integration Mathematics-GE3 Unit-1: Riemann Integration 35
Sem-3 (CC7) Dr. K. C. Basak CC6-(TH+TU) ODE & Multivariate Calculus-I Unit-1: Ordinary Differential Equation 40 Sem-3 (SEC- A1) Dr. Nanda Das Dr. Nanda Das SEC-A1-TH C-Programming Language Unit-2: Multivariate Calculus-I 35 Sem-3 (GE-3) Dr. Babli Saha SEC-A1-TH C-Programming Language 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. Nanda Das Dr. Somnath Bandyopadhyay GE3-(TH+TU) Mathematics-GE3 Unit-3: Linear Programming (Theory) 10 Dr. Nanda Das Dr. Somnath Bandyopadhyay CC8-(TH+TU) Riemann Integration Mit-1: Riemann Integration 35 Follow the latest Dr. Somnath Bandyopadhyay CC8-(TH+TU) Riemann Integration 35
(CC7) Image: Dr. Nanda Das Calculus-I Unit-2: Multivariate Calculus-I 35 Sem-3 (SEC- Al) Dr. Nanda Das SEC-A1-TH C-Programming Language 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. Somnath Bandyopadhyay Dr. Nanda Das GE3-(TH+TU) Mathematics-GE3 Unit-3: Linear Programming (Theory) 10 Dr. Nanda Das Dr. Nanda Das CC8-(TH+TU) Riemann Integration and Series of Unit-1: Riemann Integration 35
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Sem-3 (GE-3) Dr. K.C. Basak Dr. K.C. Basak Dr. Somnath Bandyopadhyay Mathematics-GE3 Unit-2: Numerical Methods 25 Dr. Nanda Das Dr. Nanda Das Unit-3: Linear Programming (Theory) 10 Follow the latest Dr. Somnath Bandyopadhyay CC8-(TH+TU) Riemann Integration and Series of Unit-1: Riemann Integration 35
Image: Dr. Somnath Bandyopadhyay Image
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Follow the latest Dr. Somnath Bandyopadhyay Riemann Integration and Series of Unit-1: Riemann Integration 35
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Sem-4 (CC8) notification by CU Functions Unit-3: Power Series 5
Dr. Babli Saha Unit-2: Improper Integral 10
Unit-3: Sequence & Series of Functions and Fourier Series. 25
Sem-4 (CC9) Dr. K.C. Basak PDE & Multivariate CC9-(TH+TU) Unit-1: Partial Differential Equation. 40
Dr. Nanda Das Unit-2: Multivariate Calculus-II 35
Dr. Kartik Chandra Basak CC10-(TH+TU) Mechanics Unit-3: Kinematics of a Particle, Newton Laws of motion and Law of gravitation.
Sem-4 (CC10) Unit-4: Problems in particle dynamics, Planar motion of a particle, Motion of a particle, Motion of a particle in 3D.
Dr. Nanda Das Unit-1: Coplanar forces, Force system in space, Friction 15
Unit-2: Virtual work, Stability of equilibrium.
Unit-5: Many particles system. 10
Sem-4 Dr. Kartik Chandra Basak SEC-B-TH Scientific Computing with Sage Math. Numeric Computation, Plotting of functions, Programming and Applications. 30
Dr. Babli Saba GE4-(TH+TU) Mathematics GE4 Unit-1: Algebra-II (Vector Space) 10
Sem-4 (GE4) Dir. Somnath Bandyopadhyay GE4-(TH+TU) Mathematics GE4 Unit-1: Algebra-II (Group Theory, Ring and Field) 10
Dr. Nanda Das GE4-(TH+TID Mathematics GE4 Unit-2: Computer Science and Programming 15
D. K. C. Basak GE4-(TH+TU) Mathematics GE4 Unit-3: Probability and Statistics 25

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Maulana Azad College Department of Mathematics Teaching / Lesson Plan 2019-2020, Undergraduate Mathematics (Honours and General)

Name of the Teacher	Title of the Teaching Assignment	Paper	Module	Group	Unit-I Topic to be covered before Mid-Term Examination	Number of Classes Required	Unit-II Topic to be covered before Test Examination.	Number of Classes Required	Remarks
Dr. Kartik Chandra Basak	Part-III (Hons.) 2019-2020	Paper-VI	Mod-XI	Group-A (10 Marks)	Vector Integration: Line Integral.	10	Surface Integral and Volume Integral and related theorems.	10	Details to be found in the Syllabus of Calcutta
			Mod-XI	Group-B (20 Marks)	Statics-II: Virtual Work, Centre of Gravity.	20	Statics-II: Stable and Unstable equilibrium, Forces in three dimensions.	20	
			Mod-XII	Group-A (25 Marks)	Equilibrium of fluids in a given field of forces, Thrust in Plane Surface, Centre of Pressure.	20	Rotating Fluid, Stable and Unstable equilibrium and Gas.	20	University
		Paper-VIII	Mod-XVI	Group-A (25 Marks)	Numerical Analysis: Integration , Solution of Transcendental equation.	20	Solution of Ordinary Differential Equation.	15	

Dr. Somnath Bandyopadhyay	Part-III (Hons.) 2019-2020	Part-III (Hons.) Mod-IX Group-A (50 Marks) Analysis III: Comp Bounded Variatio Integration. Part-III (Hons.) Group-A (20 Marks) Modern Algebra 	Mod-IX	Group-A (50 Marks)	Analysis III: Compactness in R, Bounded Variation, Riemann Integration.	30	Analysis III: Sequence and Series of Functions of a real variable, Power Series.	25	
				Group-A (20 Marks)	Modern Algebra III : Linear Transformation on Vector Spaces. Linear Transformation and Matrices.	15	Linear Algebra II : Normal Subgroup, Homomorphism and Isomorphism of Groups.	15	Details to be found in the Syllabus of Calcutta
			Tensor Calculus: Generalised concept of a vector. Contravariant and Covariant vectors.	10	Tensor Caculus: Rest of the Tensor Calculus.	10	University		
				Group-C (15 Marks)	Differential Equation-II: Series Solution at an Ordinary Point.	10	Differential Equation-II: Laplace Transformation and its Application in ODE.	10	

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Name of	Title of the				Unit-I	Number	Unit-II	Number	Remarks				
the Teacher	Teaching Assignment	Paper	Module	Group	Topic to be covered before Mid-Term Examination	of Classes Required	Topic to be covered before Test Examination.	of Classes Required					
Dr. Babli Saha	Part-III (Hons.) 2019-2020	Paper- VII	Mod-XIII	Group-A (20 Marks)	Analysis-IV: Fourier Series, Multiple Integral and its application to determination of volume and surface area.	15	Analysis-IV: Improper Integration and their convergence.	15	Details to be found in the Syllabus of Calcutta University				
				Group-B (15 Marks)	Metric Space:	20							
				Group-C (15 Marks)			Complex Analysis	20					
				Group-A (30 Marks)	Probability: up to Expectation-II	40	Some Special Distribution, Convergence in Probability.	15					
								Mod-I	Mod-IV	Mod-IV	Group-B (20 Marks)	Statistics: Upto Sampling Distribution	10
Dr. Nanda Das	Part-III (Hons.) 2019-2020		Mod-XII	Group-B (25 Marks)	Rigid Dynamics: Moment of Inertia, D'Alembert Principle, Motion about Fixed Axis up to Compound Pendulum.	25	Reaction on Fixed axis, Motion in Two-dimension, Impulse in 2D, Angular momentum & Energy equation.	20					
		Part-III (Hons.) 2019-2020	Part-III (Hons.)		Mod-XV	Group-A (25 Marks)	Numerical Analysis: Interpolation , Numerical Differentiation & Integration.	20	Numerical Solution of Linear System of Equations, Transcendental equation and ODE.	20	Details to be found in the Syllabus of Calcutta		
			Paper- VIII		Group-B (25 Marks)	Boolean Algebra: Basic Idea of Boolean Algebra and Switching Circuits and their applications.	10	Computer Programming: Concept of Algorithm, Flowchart and corresponding Programming in C	20	University			
			Mod-IV	Group-B (25 Marks)	Numerical Practical.(with Calculator)	25	Computer Practical in C	20					

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