

MOYNA COLLEGE

DEPARTMENT OF MATHEMATICS

SESSION – 2014-15

Teaching Plans of Anup Samanta

➤ PART – I

Paper	Year	Pass/ Hons	Topics	Units	Duration of Teaching	No. of Classes	Teaching methods	Reference Books
I	1 st	Hons	Abstract Algebra	1. Sets and mappings	11.08.16 - 09.09.16	9	1. Lecture 2. Questioning -Answering 3. Problem Solving	1.S.K Mapa: Abstract Algebra 2.Malik,Moderson,S en:Fundamentals of Abstract Algebra
				2. Introduction to Group Theory	15.09.16 - 08.12.16	16		
				3. Introduction to Ring and Field	09.12.16 - 10.02.17	14		
				4. Integers	16.02.17 - 24.03.17	11		
I	1 st	Pass	Modern Algebra	1. Basic Set Theory	12.08.16 - 26.08.16	3	1. Lecture 2. Questioning - Answering 3. Problem Solving 4. Illustrate with Example	1.Sen,Ghosh,Mukhe rjee:Topics in Abstract Algebra 2.Ghosh & Chakraborty: Higher Algebra
				2. Introduction to Group Theory	02.09.16 - 18.11.16	7		
				3. Introduction to Ring and Field	25.11.16 - 27.01.17	8		
				4. Characteristic Equation and Eigen value problems	03.02.17 - 24.03.17	7		

PART – II

Paper	Year	Pass/ Hons	Topics	Units	Duration of Teaching	No. of Classes	Teaching methods	Reference Books
V	2 nd	Hons	Real Analysis - II	1. Riemann theory of Integration	12.08.16 - 02.11.16	25	Lecture	1.S.K.Mapa: Mathematical Analysis 2.Malik & Arora: Mathematical Analysis 3.Utpal Chatterjee:.Advanc ed Mathematical Analysis
				2. Improper Integrals	04.11.16 - 14.12.17	16	Problem Solving	
				3. Differentiation & Integration w.r.to Parameter	16.12.16 - 18.01.17	11	Illustrate with Example	
				4. Multiple Integral	20.01.17 - 15.02.17	10	Questioning - Answering	
				5. Concept of implicit function	17.02.17 - 03.03.17	6		
				6. Mean value and Taylor's Theorem	09.03.17 - 24.03.17	9		
II	2 nd	Pass	Integral Calculus	1. Indefinite Integration	18.08.16 - 01.09.16	2	Lecture Problem Solving	1. Maity and Ghosh: Integral Calculus 2. Das & Mukherjee: Integral Calculus
				1. Definite Integral	08.09.16 - 22.09.16	3	Illustrate with Example	
				2. Reduction Formula	06.10.16 - 24.11.16	5	Questioning - Answering	
				3. Improper Integration	01.12.16 - 19.01.17	7		
				4. Double and Triple Integration	09.02.17 - 02.03.17	4		
				5. Application of Integration	09.03.17 - 23.03.17	3		

➤ PART – III

Paper	Year	Pass/ Hons	Topics	Units	Duration of Teaching	No. of Classes	Teaching methods	Reference Books
VII	3 rd	Hons	Mathematical Statistics	1. Collection of Data	11.08.16 - 01.09.16	6	Lecture Questioning – Answering Problem Solving	1.Dey,Sen: Mathematical Statistics 2. .Arup Mukherjee: Probability & Statistics
				2. Measures of Central Tendency	02.09.16 - 16.09.16	5		
				3. Measures of Dispersion	22.09.16 - 04.11.16	5		
				4. Sampling Distribution of Statistics	10.11.16 - 17.11.16	3		
				5. Estimation of parameter	18.11.16 - 02.12.16	5		
				6. Maximum Likelihood Method	08.12.16 - 20.01.17	11		
				7. Statistical Hypothesis	09.02.17 - 03.03.17	9		
VIII	3 rd	Hons	Real Analysis-II	1. Sequence of Functions	10.08.16 - 07.09.16	10	Lecture Questioning – Answering Problem Solving Illustrate with Example	1.S.K.Mapa: Mathematical Analysis 2.Malik & Arora: Mathematical Analysis 3.Utpal Chatterjee: Advanc ed Mathematical Analysis
				2. Series of Functions	14.09.16 - 02.11.16	10		
				3. Power Series	09.11.16 - 07.12.16	8		
				4. Fourier Series	14.12.16 - 11.01.17	8		
				5. Real Valued Function defined on a subset of Real Numbers	18.01.17 - 08.02.17	6		
				6. Continuity of a Function at a point on a subset of R	15.02.17 - 01.03.17	6		
IV	3 rd	Pass	Elements of Statistics	1. Discrete and Continuous variable	10.08.16 - 07.09.16	5	Illustrate with Example Lecture Problem Solving	1.Dey,Sen: Mathematical Statistics 2. .Arup Mukherjee: Probability & Statistics
				2. Measures of Dispersion	14.09.16 - 02.11.16	5		
				3. Correlation and Regression	09.11.16 - 04.01.17	7		
				4. Maximum Likelihood Method and Interval Estimation	11.01.17 - 01.03.17	7		