Department of Mathematics									
Subject: MTMG									
Mon	th: July 20 .	18-Octob	er 2018	ſ	I	Year-201	1 <mark>8-2019</mark>		
SI	Hons/	Paper	Group	Торіс	No. of	Name of the Lecture	Remarks		
No	Gen				Lecture				
1.	Gen			Differential					
	1" Sem			Calculus	_				
					5	Concept of Limit			
					2	Problems-Solutions			
					1	Class test			
					6	Continuity and discontinuity			
					3	Problems- Solutions			
						Class test			
					6	Differentiation			
	imit Conti	nuity an	d Differe	entiation	2	Problems-Solutions			
-		indity an			1	Successive Differentiation			
					2	Leibnitz Theorem and its			
						application			
					1	Problem Solutions			
					1	Class test			
					4	Partial Differentiations			
					2	Euler's Theorem			
					3	Problem Solutions			
					1	Class test			
					•				
					2	Tangents and Normals			
					2	Problems-Solutions			
					1	Curvatures			
					2	Problems-Solutions			
					2	Asymptotes			
		A			2	Problems-Solutions			
		Applica	tions		1	Singular Points			
					2	Problems-Solutions			
					5	Tracing of curves			
					3	Tracing of curves			
					1	Class Test			
					1	Role's Theorem			
					1	Problems-Solutions			
Mean Value Theorem					5	Mean Value Theorem			
					3	Problems-Solutions			
					2	Taylors Theorem			
					1	Maclaurin's Theorem			
					3	Maclaurin's Series			
	Ма	an Volue	Thooper	•	2	Problems-Solutions			
	Iviea	an value	rneoren	L	4	Maximum and Minimum			
					2	Problems-Solutions			

2.	PART-II	II	А	Modern Algebra	1	Set Theory	
					2	Relation and Mappings	
					5	Group Theory	
			_		2	Rings and Fields	
			В	Geometry	2	Rectangular Cartesian Co- ordinate	
					1	Equation of Plane	
			С	Differential Calculus	3	Sequence of Real numbers	
					3	Series of real numbers	
			D	Integral Calculus	2	Improper integral	
			E	Differential Equation	5	Second order linear differential Equation	
					1	Orthogonal Trajectory	
			A	Modern Algebra	3	Eigen values and Eigen vectors	
			В	Geometry	3	Sphere and its tangent plane	
					2	Right circular cone	
			С	Differential Calculus	2	Maximum and Minimum	
					3	Application of differential calculus	
3.	PART-II		А	Numerical Method	1	Approximation of Numbers and Numerical Operator	
					3	Interpolation	
			В	L. P. P	1	Basic concepts of LPP	
					3	Sets of Feasible solutions	
			С	Dynamics	2	Motion in a plane	
				, -			
					2	Concept of force: Work. Power.	
1				1	1	LINCIBY	1

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D	Probability	2	Elements of Probability Theory	
	and Statistics			
		3	Probability Distribution	
		3	Statistical Methods	
E	Calculus of	3	Difference Equation	
	variation			
С	Dynamics	2	Central Orbit	
		1	Kepler's law of motion	
		3	Motion under inverse square	
			law	
E	Probability	2	Time Series	
	and Statistics			
		2	Index Number	
А	Boolean	4	Basic concept of Boolean	
	Algebra		Algebra and truth tables	
		2	Problem solution	
		5	Lows of Boolean Algebra and	
			Logic gates	
		2	Problem solution	
В	Calculus	3	Concept of convergence and	
			Uniform convergence:	
			Sequence of functions	
		1	Problem solution	
		3	Series of function	
		2	Power series	
		1	Problem solution	
С	Discrete	8	Integers	
	Mathematics			
А	Boolean	4	Application to Simple Problem:	
	Algebra		MS Office, Internet, Email	
В	Calculus	8	Laplace Transformation and its	
			Application	
		4	Partial Differential Equation	
С	Discrete	5	Recurrence relation and	
	Mathematics		Generating function	
	D E C E A B C A B C C	DProbability and StatisticsIIECalculus of variationCDynamicsIIEProbability and StatisticsIIABoolean AlgebraBCalculusIII<	DProbability and Statistics2I33ECalculus of variation3CDynamics2I13EProbability and Statistics2I23EProbability and Statistics2ABoolean Algebra4I25I22BCalculus3I13I13I13I21I13I13I13I13I13I13I13I13I13I31I13I13I13I13I13I13I13I13I13I13I33I13I33I33I33I33I33I33I33I33I33I33I3 <td>DProbability and Statistics2Elements of Probability TheoryImage: Statistics of the statistics3Probability DistributionImage: Statistics of the statistics3Statistical MethodsImage: Statistic of the statistics3Difference EquationImage: Statistic of the statistics1Kepler's law of motionImage: Statistic of the statistics1Kepler's law of motionImage: Statistic of the statistics3Motion under inverse square lawImage: Statistic of the statistics2Time SeriesImage: Statistic of the statistics2Index NumberImage: Statistic of the statistics3Concept of Boolean Algebra and Logic gatesImage: Statistic of the statistic of</td>	DProbability and Statistics2Elements of Probability TheoryImage: Statistics of the statistics3Probability DistributionImage: Statistics of the statistics3Statistical MethodsImage: Statistic of the statistics3Difference EquationImage: Statistic of the statistics1Kepler's law of motionImage: Statistic of the statistics1Kepler's law of motionImage: Statistic of the statistics3Motion under inverse square lawImage: Statistic of the statistics2Time SeriesImage: Statistic of the statistics2Index NumberImage: Statistic of the statistics3Concept of Boolean Algebra and Logic gatesImage: Statistic of the statistic of

Department of Mathematics											
Subj	Subject: MTMG										
Mon	Month: Nov 2018-Feb 2019 For part II& III Year-2018-2019										
	Jan 2019-Feb 2019 for 2 nd Semester										
SI	Hons	Paper	Group	Торіс	No. of	Name of the Lecture	Remarks				
No	/Gen				Lecture						
1.	1. Gen Differential										
	2 nd Equation										
	Sem Sem										
	2 Concept of differential										

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				equations (General form, Order	
				Degree, Formation of	
				Differential Equation)	
			2	Problems-Solutions	
			6	Exact Differential Equation	
			4	Problems-Solutions	
			1	Class Test	
			6	First Order Linear Differential	
				Egun	
			4	Problems-Solutions	
			4	First order higher degree egun	
			4	Problems Solutions	
			1	Class test	
			2	Higher Order Differential equn,	
				Basic concept	
			2	Problems-Solutions	
			5	Linear homogeneous equation	
				with constant coefficient-	
				General method	
			5	Problem Solutions	
			1	Variation of Parameter	
			2	Problems-Solutions	
			1	Cauchy Euler equation	
			2	Problems-Solutions	
			1	Class Test	
			2	Simultaneous equation	
			2	Problems-Solutions	
			1	Total Differential Equation	
			1	Problems-Solutions	
			1		
			2	Concept of Dartial Differential	
			2	Equation	
			1	Formation of Partial differential	
				equation	
			1	Problems-Solutions	
			5	Partial diff egun of first order	
			3	Problems-Solutions	
			5	Partial diff egun of second	
				order	
			2	Problems-Solutions	
			1	Class Test	
			7	Remedial Classes	
			/		
		Г			
Paper	Group	Торіс	No. of	Name of the Lecture	Remarks
			Lecture		

SI

No

Hons

/Gen

2.	<mark>P-II</mark>	II	А	Modern Algebra	7	Vector space	
	I				1	Real Quadratic Form	
			В	Geometry	3	Straight line in 3D	
					1	Problem Solution	
			С	Differential	4	Real valued function and Mean	
				Calculus		Value Theorems	
					1	Indeterminate forms	
			D	Integral	1	Double integral	
				calculus			
					2	Application of Double Integral	
			В	L. P.P	1	Reduction of feasible solution	
						to a B. F. S.	
					2	Solution of LPP by Graphical	
						method	
					3	Simplex Method	
					3	Principal of Duality	
					2	Transportation Problem	
					2	Assignment Problem	
3.	P-II	III	А	Numerical	2	Numerical Integration	
				Method			
					1	Problem solution	
					3	Numerical solution	
					1	Problem solution	
			В	Dynamics	2	Motion in a Straight line	
					1	Problem solution	
					2	Motion in 2D	
					1	Problem Solution	
			С	Probability and Statistics	7	Sampling Theory	
					2	Problem Solution	
					2	Bivariate Frequency	
						Distribution	
					1	Problem Solution	
			D	Calculus of	4	Variation of functional	
				variation			
					1	Problem solution	
SI	Hons	Paper	Group	Торіс	No. of	Name of the Lecture	
No	/Gen				Lecture		
4	P-III	IV	А	Boolean	10	Computer science and	
				Algebra		Programming	
					2	Problem solution	
			В	Calculus	2	Fourier Series	
					1	Problem Solution	
					1	3 rd and 4 th Order Ordinary	
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			differential equation
		4	2 nd Order differential Equation
		2	Problem solution
		2	Simultaneous Linear
			differential Equation
С	Discrete	7	Congruences
	Mathematics		
		2	Problem solution
		7	Application of Congruences
		2	Problem solution
		1	Congruence class
		1	Problem solution

	Department of Mathematics										
Subje	Subject: MTMG										
Mon	Month: Mar 2019-June 2019 Year-2018-2019										
SI	SI Hons/G Paper Group Topic No. of Name of the Lecture										
No	en				Lecture						
1.	Gen				10	Revision Classes					
	Part-II										
10 Remedial Classes											
2.	Part-III				10	Revision Classes					
					10	Remedial Classes					