Lesson Plan 2020-21 (Even Semester)

Class and Section: HM 6TH Subject: DYNAMICS

Name of the	Name of the Faculty: MR. Surender kumar					
Week	Lecture	Date	Topics			
1	7	16/01/20 to 24/01/20	Components of velocity and accelerations . Examples and exercise problems. Radial and transverse components of velocity and accelerations. Examples and exercise problems.			
2	5	27/01/20 to 31/01/20	vector form of radial and transverse velocity and accelerations. Tangential and normal components of velocity and acceleration. Vector form. Examples and exercise problems.			
3	5	03/02/20 to 07/02/20	Relative motion: relative velocity ,magnittude and direction. Relative Acceleration.Simple harmonic motion , periodic motion,frequency , examples and exercise problems.Elastic strings : Horizantal elastic string			
4	5	10/02/20 to 14/02/20	Vertical elastic string.Newton law of motions:first, second and third law of motion.examples, exercise problems.Pressure of body resting on a horizontal plane moving vertically upwords or downwords.Examples and Exercise.			
5	5	17/02/20 to 21/02/20	Work , Power and Energy .Definitions of Conservative forces and impulsive forces.Examples and Exercise problems Doubt discussion.			
6			1st Class Test			
7	5	24/02/20 to 28/02/20	Motion on smooth and rough plane curves: Motion on the ouside and inside of a vertical circle. Cycloid motion: motion on a cycloid.Motion on a rough curve under gravity.			
8	5	02/03/20 to 06/03/20	Projectile: Motion of prtojectile Latus rectum, vertex, focus, directrix, axis of the trajectory of a projectile.			
9	5	09/03/20 to 13/03/20	Time of flight, horizantal range and greatest height of a projectile. Examples and exercise problems.			
10			2nd Class Test			
11	5	16/03/20 to 20/03/20	Velocity at any point of the trajectory.Range and time of flight on an inclined plane.Differential equation of centrsal orbit.			
12	5	23/03/20 to 27/03/20	Elliptic ,hyperbolic and parabolic orbit.Examples and exercise problems. Doubt discussion.			
13	5	06/04/20 to 10/04/20	Keplers law of motions: Theorems , motion under the inverse square law . Examples and Exercise problems.			
14	5	30/03/20 to 03/04/20	Marian of a marials in those kinematics. Decision			
15	5	13/04/20 to 17/04/20	Motion of a particle in three dimension . Revision  Revision			
16			Final Sessional Test			

Lesson Plan 2020-21 (Even Semester)

Class and Section: Honors Mathematics 6th sem Subject: Operation research

Subject: Operation research Name of the Faculty: Ajay					
Week		-	Tonico		
week	Lecture	Date	Topics		
1	7	16/01/20 to 24/01/20	Inventory Control: introduction of inventory, factors affecting inventory,		
2	5	27/01/20 to 31/01/20	Inventory models, Deterministic models: Economic order quantity model when shortages are allowed/not allowed,		
3	5	03/02/20 to 07/02/20	price discounts model, multi-item inventory models.		
4	5	10/02/20 to 14/02/20	Queuing Theory : Basic characteristics of queuing system, Birth-death equations		
5	5	17/02/20 to 21/02/20	Steady state solution of Markovian queuing models with single and multiple servers (M/M/1 and M/M/c)		
6		1	1st Class Test		
7	5	24/02/20 to 28/02/20	Steady state solution of Markovian queuing models with single and multiple servers with limited capacity (M/M/1/K and M/M/c/K)		
8	5	02/03/20 to 06/03/20	Sequencing problems: Processing of n jobs through 2 machines, n jobs through 3 machines, 2 jobs through m machines, n jobs through m machines.		
9	5	09/03/20 to 13/03/20	Replacement problems: Replacement of items whose running cost increases with tim		
10		1	2nd Class Test		
11	5	16/03/20 to 20/03/20	Replacement policies for the items that fail completely - Individual and the group replacement policies.		
12	5	23/03/20 to 27/03/20	PERT and CPM: Introduction of PERT and CPM,		
13	5	06/04/20 to 10/04/20	Earliest and latest times, Determination of critical path and various types of floats		
14	5	30/03/20 to 03/04/20	Probablistic and cost considerations in project scheduling		
15	5	13/04/20 to 17/04/20	Assignment of whole syllabuss		
16			Final Sessional Test		
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Class and Section: B.Sc(N.M.) 6th semester section C, Honors Math 6th

Subject: Real and Complex Analysis

Name of the Faculty : Mr. Arvind

Week	Lecture	Date	Topics
1	7	16/01/20 to 24/01/20	Basics of partial derivatives, Definition of Jcobians and Jcobians of functions with respect to two or more variables
2	5	27/01/20 to 31/01/20	problems of Jcobians
3	5	03/02/20 to 07/02/20	Beta and Gamma functions and related problem
4	5	10/02/20 to 14/02/20	Double and Triple integral problem and application
5	5	17/02/20 to 21/02/20	Double and triple integral continue, Fourier series
6			1st Class Test

7	5	24/02/20 to 28/02/20	Fourier series continue and Half range sin,cosine series	
8	5	02/03/20 to 06/03/20	Parsevals identity for Fourier series and Stereographic projection of complex number	
9	5	09/03/20 to 13/03/20	Continuity and Differentiability of complex functions	
10				
11	5	16/03/20 to 20/03/20	Analytic function ,Cauchy Riemann equation	
12	5	23/03/20 to 27/03/20	Harmonic functions, Mapping of elementary functions	
13	5	06/04/20 to 10/04/20	Mappings Rotation, Reflection, Magnification, Inversion, Conformal mapping	
14	5	30/03/20 to 03/04/20	Mobius transformation, Fixed points	
15	5	13/04/20 to 17/04/20	Cross section, Inverse points, Critical mappings	
16			Final Sessional Test	



EB.Sc(N.M.) 6th semester section D
Subject: Real and Complex Analysis

	Name of the Faculty :Mr. Manjeet					
Week	Lecture	Date	Topics			
1	7	16/01/20 to 24/01/20	Basics of partial derivatives, Definition of Jeobians and Jeobians of functions with respect to two or more variables			
2	5	27/01/20 to 31/01/20	problems of Jeobians			
3	5	03/02/20 to 07/02/20	Beta and Gamma functions and related problem			
4	5	10/02/20 to 14/02/20	Double and Triple integral problem and application			
5	5	17/02/20 to 21/02/20	Double and triple integral continue, Fourier series			
6			1st Class Test			
7	5	24/02/20 to 28/02/20	Fourier series continue and Half range sin, cosine series			
8	5	02/03/20 to 06/03/20	Parsevals identity for Fourier series and Stereographic projection of complex number			
9	5	09/03/20 to 13/03/20	Continuity and Differentiability of complex functions			
10						
11	5	16/03/20 to 20/03/20	Analytic function ,Cauchy Riemann equation			
12	5	23/03/20 to 27/03/20	Harmonic functions, Mapping of elementary functions			
13	5	06/04/20 to 10/04/20	Mannings Potation Daflaction Magnification Impossion Configural Configuration			
14	5	30/03/20 to 03/04/20	Mappings Rotation, Reflection, Magnification, Inversion, Conformal mapping  Mobius transformation, Fixed points			
15	5	13/04/20 to 17/04/20	Cross section, Inverse points, Critical mappings			
16			Final Sessional Test			