

Lesson Plan

Name of Teacher: ASHWANI GOYAL

Class: BTECH

Deptt.: Applied Sciences & Humanities

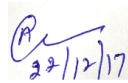
Sem: 2nd Sem

Designation: Assistant Professor

Subject: Applied Mathematics -II

For the Session: Jan-April 2018

Month	Class	Topic/Chapters Covered	Academic Activity	Test/ Assignment
Jan 8	1	Theory of Equations		
Jan(9-10)	2	Formation of equations,		
Jan(11-12)	2	Relation between roots and Coefficients		
Jan(15-16)	2	Reciprocal equations		
Jan(17-18)	2	Transformation of equations		
Jan(19,23)	2	Beta and Gamma functions		
Jan 24	1	Evaluation of integrals by Leibnitz's rule		
Jan 25	1	Laplace transforms: Basic concepts, Existence Conditions		
Jan(29-31)		REVISION		Class test 1
Feb 1	1	Laplace transforms of elementary functions		
Feb 2	1	Properties of Laplace transforms		
Feb 5	1	Transforms of derivatives		
Feb 6	1	Transforms of integrals		
Feb 7	1	Multiplication by t^n , division by t		
Feb 14	1	Evaluation of integrals by Laplace transforms		
Feb(15,16,19)	3	Inverse transforms ,		
Feb 20	1	Convolution theorem		
Feb (21-22)	2	Laplace transforms of unit step function, second Shifting theorem,		
Feb 23	1	Dirac's Delta function		
Feb(26,27,28)		REVISION		Class test 2
March 5	1	Application to linear differential equation with constant coefficients		
March 6	1	Simultaneous linear differential equations		
March 7	1	Exact differential equations		
March (8-9)	2	Equations reducible to exact differential equation of first order		
March 12	1	Application of diff. Eq.of first order and first degree to simple electric circuits		
March 13	1	Newton's law of cooling and		
March 14	1	Heat flow		
March 15	1	Orthogonal trajectories		
March 16	1	Linear differential equation of second and higher order		
March 19	1	Complete solution & Complementary function		
March 20	2	Particular integral		
Mar(21,22,23)		REVISION		Class test 3
March 26	1	Methods of variation of parameters to find particular integral		
March 27	1	Method of undetermined coefficients to find the Particular integral,		
March (28-29)	2	Cauchy's and Legendre's linear equation		
March 30	1	Simultaneous linear equation with constant coefficients		
April (2-3)	2	Differentiation of Vectors, Scalar and vector point functions		
April (4-5)	2	Gradient of a Scalar field and directional derivative		
April (6-9)	2	Divergence and Curl of a vector field and their physical Interpretations		
April 10	1	Line integrals		
April 11	1	Surface integral, volume integral,		
April 12	1	Green's theorem in the plane		
April 13	1	Stoke's theorem		
April 16	1	Gauss divergence theorem		
April (17-18)		Revision		
April(19-21)		REVISION		Class test -4


 Signature of Teacher
 (With Date)