

Lesson Planning for the semester started w.e.f 5th Jan. 2018.

Name of Institute :- Sat Kabir Institute of Technology and Management,Ladrawan (Jhajjar)

Name of teacher with designation :-Ms Preeti , A.P

Department :- Applied Science

Month	Class	Topic/Chapter Covered	Academic Activity	Test/Assignment
Jan.	2 nd	Vector Calculus: Differentiation of vectors, scalar and vector point functions. Gradient of a scalar field and directional derivative, divergence and curl of a vector field. (2 weak)	Presentation	Assignment(3rd week)
		Integration of vectors, line integral, surface integral, volume integral, Green, Stoke's and Gauss theorems (without proof) and their applications. (2 weak)	GD	Test(4th week)
Feb.	2 nd	Ordinary Differential Equations and Applications: Exact differential equations, equations reducible to exact differential equations. Applications of differential equations of first order & first degree to simple electric circuits, Newton's law of cooling, heat flow and orthogonal trajectories, linear differential equations of second and higher order (2 weak)	Seminar	Assignment(3rd week)
		Complete solution, complementary function and particular integral, method of variation of parameters to find particular integral, , simultaneous linear equations with constant coefficients. Applications of linear differential equations to simple pendulum, oscillatory electric circuits. (2 weak)	Presentation	Test(4th week)
March	2 nd	Laplace Transforms and its Applications: Laplace transforms of elementary functions, properties of Laplace transforms, existence conditions, transforms of derivatives, transforms of integrals, multiplication by tn division by t . Evaluation of integrals by Laplace transforms. (2 weak)	GD	Assignment(3rd week)
		Laplace transform of unit step function, unit impulse function and periodic function. Inverse transforms, convolution theorem, application to linear differential equations.and simultaneous linear differential equations with constant coefficients and applications to integral equations. (2 weak)	Seminar	Test(4th week)
April	2 nd	Partial Differential Equations and Its Applications: Formation of partial differential equations, Lagrange's linear partial differential equation, first order non-linear partial differential equation, (2 weak)	Presentation	Assignment(3rd week)
		Charpit's method.Method of separation of variables and its applications to wave equation, one dimensional heat equation and two dimensional (2 weak)	GD	Test(4th week)

Preeti(29/12/2017)

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Jan.	4th (NM)	Week 1. To find the roots of non linear equation using Bisection method .Group A Group B Group C	To be performed	
		Week 2. . To find the roots of non linear equation using Newton method.Group A Group B GroupC	To be performed	
		Week 3 Curve fitting by least square method. Group A, Group B GroupC	To be performed	
		Week 4. Lab problems And File Checking Group A Group B Group C	File Checking	
Feb.	4th(NM)	Week 1.To find the system of linear equations using Gauss elimination method . Group A Group B Group C	To be performed	
		Week 2. To find the system of linear equations using Gauss Seidal method . Group A Group B GroupC	To be performed	
		Week 3. To solve the system of linear equations using Gauss-Jorden method Group A Group B Group C	To be performed	
		Week 4. Lab problems And File Checking Group A Group B Group C	File Checking	
March	4 th (NM)	Week 1 To Integrate numerically using Trapezoidal rule. Group A Group B Group C	To be performed	
		Week 2 To Integrate numerically using Simpson's rules.GroupA GroupB Group C	To be performed	
		Week 3 To find the largest eigen value of a matrix by power-method. Group A GroupB GroupC	To be performed	
		Week 4. Lab problems And File Checking Group A Group B GroupC	File Checking	
April	4 th (NM)	Week 1 To find numerical solution of ordinary differential equations by any one methods Euler's/ Runge-Kutta method.GroupA Group B Group C	To be performed	
		Week 2 Lab problems And File Checking Group A Group B GroupC	File Checking	
		Week 3 Internal Viva Group A Group B GroupC	Viva	

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