

Flow up of implementation celli pass play

Course Instructor	IMAN MOHAMMAD NAMMA				
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Title	M. S c				
Course Coordinator	Course 2				
Course Objective	enable students to acquire knowledge and understanding in advanced mathematics				
Course Description	The differential equation, Laplace equation , Series Solutions				
Textbook	Advanced Engineering Mathematics. Calculus 7				
Course Assessments	Term Tests	Term Tests	Term Tests	Term Tests	Term Tests
	35%		5%		60%
General Notes					



Course Weekly Outline

Week	Date	Topes Covered	ab. Experiment Assignme nts	N o t
1		Differential equations: - linear differential equations 1- first order linear equation: a-Separable equations		
2		b- Homogeneous equations c-Exact equations		
3		d-Linear equations e- Bernoulli's equations -linear differential equations:		
4		2-Second order linear equation: a-reducible to first order linear equation		
5		b- Second order homogenous linear c -- Second order non -homogenous linear		
6		Higher order differential equations: a- homogenous b-non homogenous		Term test
7		Laplace Transforms: Definitions. Properties. Inverse Laplace		
8		Special functions: Heavy side unit step function. Convolution theorem. System of Linear Differential Equations: Definitions.		
9		Application of Linear Algebra. Homogeneous linear systems.		
11		Non-homogeneous linear systems. Solving systems by Laplace transforms.		Term test
11		Series Solutions: Cauchy-Euler equation method. Solutions about ordinary points		
12		Solutions about singular points.		
13		Method of Frobenius. Second Solutions and Logarithm terms of Frobenius.		
14		Second Solutions and Logarithm terms		
15		Series Solutions: Cauchy-Euler equation method. Solutions about ordinary points. Solutions about singular points. Method		Term test

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Half – year break

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