Koyana Education Society's

Balasaheb Desai College, Patan Monthly Teaching Plan

2023-2024

Subject Name: Mathematics Class: B. Sc-I

Paper Name: Calculus Month: October

Date	Unit/Subunit	Teaching Method
03/10/23	If a function f is continuous in a closed interval [a, b] then	Lecture/ Problem
	bounded in [a, b]	solving
04/10/23	If a function f is continuous in a closed interval [a, b] then it	Lecture
	attains its bound at least once in [a, b]	
05/10/23	If a function f is continuous in a closed interval [a, b] and f(a)	Lecture
	and f(b) are of opposite signs then there exists $c \in [a, b]$ such	
	that $f(c)=0$. (statement only)	
07/10/23	If a function f is continuous in a closed interval [a, b] and	Lecture
	$f(a) \neq f(b)$ then f assumes every value between f(a) and f(b)	
	(statement only)	
09/10/23	Examples on Continuity	Problem solving
10/10/23	Examples on Continuity	Problem solving
11/10/23	Examples on Continuity	Problem solving
12/10/23	Examples on Continuity	Lecture

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2023-2024

Subject Name: Mathematics Class: B. Sc-II

Paper Name: Numerical Methods Month: October

Date	Unit/Subunit	Teaching Method
03/10/23	Examples on Newton's Backward interpolation formulae	Problem solving
04/10/23	Unit 2:2.1 Numerical Integration: Trapezoidal Rule,	Lecture
	Simpson's 1/3 rd & 3/3th rule	
05/10/23	Examples on Trapezoidal Rule, Simpson's 1/3 rd & 3/3th rule	Problem solving
07/10/23	2.2 Numerical Solutions of ODE: Introduction, Taylor's series	Lecture
	method & examples	
09/10/23	Picard's series method & examples	Problem solving
10/10/23	Euler's method & modified method & examples	Problem solving
11/10/23	R-K 2 nd & 4 th order method & examples	Problem solving
12/10/23	Gauss elimination & Gauss-seidel method & examples	Problem solving

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2023-2024

Subject Name: Mathematics Class: B. Sc-III

Paper Name: Calculus Month: October

Date	Unit/Subunit	Teaching Method
03/10/23	Infinite Fourier Sine & cosine transform	Problem solving
04/10/23	Infinite inverse Fourier Sine & cosine transform	Problem solving
05/10/23	Relation between L. T. & F. T.	Lecture
07/10/23	Change of scale property & modulation theorem	Lecture
09/10/23	Derivative & existence theorem	Problem solving
10/10/23	Convolution theorem	Problem solving
11/10/23	Finite Fourier sine & cosine transform & examples	Problem solving
12/10/23	Fourier integral theorem & Fourier sine and cosine integral	Lecture

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