

SYLLABUS COVERAGE DETAILS

Class No	Date	Time	Topic(s) Covered
01	15/9/23	9	Syllabus discussion
02	16/9/23	8	^I Angle between radius vector and tangent to the curve
03	18/9/23	11-30	Angle between two curves.
04	20/9/23	9	Orthogonal intersection.
05	22/9/23	9	Pedal Equation.
06	23/9/23	8	Tutorials.
07	25/9/23	11-30	Radius of curvature for cartesian curve & polar curve
08	27/9/23	9	Radius of curvature for polar curve and parabola
09	29/9/23 (Sat)	9-10-30 (Sat)	Radius of curvature for pedal curve, self study: Evolute & Involute
10	30/9/23	8	^{II} Taylor's & Maclaurin's expansion of $f(x)$
11	4/10/23 (Wed)	9-10	examples on Taylor's/Mc. Indeterminate form. $0/0, \infty/\infty$
12	6/10/23 (Fri)	9-10	Indeterminate forms. $\infty \times 0, \infty - \infty, 0^0, 1^\infty$ etc
13	7/10/23 (Sat)	8-9	Tutorial.
14	9/10/23 Mon	11-30-12-30	[#] Partial derivatives.
15	16/10/23	11-30-12-30	examples on partial derivative.
16	18/10/23	9-10	Tutorial.
17	20/10/23	9-10	Total derivatives.
18	25/10/23	9-10	Composite functions.
19	26.10.23	9	Implicit f.
20	30.10.	11-30	Jacobians

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21	2.11.23	9-10	Maxima & Minima.
22	4.11.23	8-9	Tutorial.
23	9.11.23	9-10	I.A-I Q.P discussion. Lab and discussion. Journal correction ^{and} to resubmit.
24	11.11.23	8-9	Introduction to Linear Algebra.
25	15.11.23	9-10	Rank of matrix.
26	16.11.23	9-10	8 of matrix, consistency, Gauss-elimination method
27	16.11.23	10-30	Gauss-Jordan method
28	16.11.23	11-30	Gauss-Seidal method.
29	18.11.23	8	Eigen-values and Eigen-vectors.
30	22.11.23		EVEV continued.
31	23.11.23	9	Largest Eigen-value
32	25.11.23	8	Leibnitz - Linear Equation
33	27.11.23	11-30	exact differential equation
34	29.11.23	9	Reducing Non-exat DE to exact D.E
35	09.12.23	8	Orthogonal trajectories
36	19.12.23	11.30	Tutorials.
37	16.12.23	8	Non-linear equation. Solvable for p.
38	18.12.23	11-30	Solution of Electric Circuits.
39	20.12.23	9	Modular Arithmetic: Introduction, Euclid's Algorithm
40	21.12.23	9.	Linear Diophantine Equation, Relatively Prime Numbers. Congruences.

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Class No	Date	Time	Topic(s) Covered
41	23.12.23	8	Linear congruence
42	28.12.23	9.	Fermat's theorem.
43	30.12.23	8	Euler's theorem
44	2.1.23	9.	Wilson's theorem.
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