

## Lesson Plan 2025(S)

Subject: - Mathematics-II

Course code: - TH-3

Name of faculty: - kajal priya pani

Class allotted: - 4p/week

Semester: - 2<sup>nd</sup>

Branch: - Civil,Electrical ,Metallurgy

Weeks	Date/Period	From Date:- 04/02/2025 To 17/05/2025	Teaching Aid
		Theory- Topic/Lesson	
1	04/02/2025 To 08/02/2025	<ul style="list-style-type: none"><li>➤ Introduction to determinant and matrix.</li><li>➤ Basic concept of determinants</li><li>➤ Elementary properties of determinants up to 3rd order</li><li>➤ consistency of equations, and problems</li></ul>	WhiteBoard Marker
2	10/02/2025 To 15/02/2025	<ul style="list-style-type: none"><li>➤ Crammer's rule.</li><li>➤ Algebra of matrices,</li><li>➤ Inverse of a matrix,</li><li>➤ Problems</li></ul>	WhiteBoard Marker
3	17/02/2025 To 22/02/2025	<ul style="list-style-type: none"><li>➤ Problems</li><li>➤ Matrix inverse method to solve a system of linear equations in 3 variables.</li><li>➤ Problems</li><li>➤ <b>Unit-ii</b> Basic concept of integral calculus</li></ul>	WhiteBoard Marker
4	24/02/2025 To 01/03/2025	<ul style="list-style-type: none"><li>➤ Integration as inverse operation of differentiation.</li><li>➤ problems</li><li>➤ Simple integration by substitution.</li><li>➤ problems</li></ul>	WhiteBoard Marker
5	03/03/2025 To 08/03/2025	<ul style="list-style-type: none"><li>➤ Simple integration by parts.</li><li>➤ problems</li><li>➤ Simple integration by partial fraction.</li><li>➤ problems</li></ul>	WhiteBoard Marker




6	10/03/2025 To 13/03/2025	<ul style="list-style-type: none"> <li>➤ Use of formulas , and for solving problems Where m and n are positive integers.</li> <li>➤ Problems.</li> <li>➤ Problems.</li> <li>➤ Problems.</li> </ul>	WhiteBoard Marker
7	17/03/2025 To 22/03/2025	<ul style="list-style-type: none"> <li>➤ Applications of integration for i.</li> <li>➤ Simple problem on evaluation of area bounded by a curve and axes.</li> <li>➤ Problems</li> <li>➤ Problems.</li> </ul>	WhiteBoard Marker
8	24/03/2025 To 29/03/2025	<ul style="list-style-type: none"> <li>➤ Calculation of Volume of a solid formed by revolution of an area about axes. (Simple problems).</li> <li>➤ Problems</li> <li>➤ Problems</li> </ul>	WhiteBoard Marker
9	02/04/2025 To 05/03/2025	<ul style="list-style-type: none"> <li>➤ Basic concept of co.ordinate geometry.</li> <li>➤ Equation of straight line in various standard forms (without proof)</li> <li>➤ intersection of two straight lines</li> <li>➤ Angle between two lines.</li> </ul>	Whiteboard Marker
10	07/04/2025 To 12/04/2025	<ul style="list-style-type: none"> <li>➤ Parallel and perpendicular lines,</li> <li>➤ perpendicular distance formula.</li> <li>➤ Problems.</li> <li>➤ General equation of a circle and its characteristics.</li> </ul>	WhiteBoard Marker
11	15/04/2025 To 19/04/2025	<ul style="list-style-type: none"> <li>➤ To find the equation of a circle</li> <li>➤ Centre and radius of a circle</li> <li>➤ Three points lying on it and</li> <li>➤ Coordinates of end points of a diameter;</li> </ul>	WhiteBoard Marker
12	21/04/2025 To 26/04/2025	<ul style="list-style-type: none"> <li>➤ Definition of conics (Parabola, Ellipse, Hyperbola) their standard equations without proof.</li> <li>➤ on conics when their foci, directories or vertices are given..</li> <li>➤ problems.</li> <li>➤ Definition notation and rectangular resolution of a vector</li> </ul>	WhiteBoard Marker



13	28/04/2025 To 03/05/2025	<b>UNIT-V: Differential Equations</b> <ul style="list-style-type: none"> <li>➤ Addition and subtraction of vectors.</li> <li>➤ Scalar and vector products of 2 vectors.</li> <li>➤ Simple problems related to work, moment and angular velocity</li> <li>➤ Problems.</li> </ul>	WhiteBoard Marker
14	05/05/2025 To 10/05/2025	<ul style="list-style-type: none"> <li>➤ Solution of first order and first degree differential equation.</li> <li>➤ differential equation by variable separation method.</li> <li>➤ Problems.</li> </ul>	WhiteBoard Marker
15	13/05/2025 To 17/05/2025	<ul style="list-style-type: none"> <li>➤ MATLAB – Simple Introduction</li> <li>➤ Revisions</li> </ul>	WhiteBoard Marker

  
 Signature of HOD

  
 Signature of faculty