

Pre-Content/content Post-Content	Learning Outcome/Objectives	
	General	Specific
<u>PRE-CONTENT</u> Definition of differential Equation, order and degree of a differential equation. <u>CONTENT</u> Formation of a differential Equation whose General Solution is given. Various methods of solving first order, first degree differential equations, Variable separable method, homogenous $\frac{dy}{dx} + py = q,$ Equations etc . . . where p and q are functions of x or constants. where p and q are functions of y or constants. $\frac{dx}{dy} + px = q,$ <u>POST-CONTENT</u> Problem Solving	Students will be able to demonstrate the basic understanding of differential equations. construct the differential equations when its solution is given. analyze the given problem, select a suitable strategy and apply an appropriate method to obtain its solution calculate faster and will be able to solve problems based on it	Students will be able to analyze and estimate the order and degree of given differential equations. form the differential equations in an organized manner after removing the radical signs. identify the type of given equations and execute the correct method to solve given differential equations acquire problem solving skills and will be able to solve various problems

Home Work /Assignment

- 1) NCERT Exercise questions (Questions from Ex .9.1 to 9.6 and misc. Ex from NCERT book)
- 2) Exemplar problem

MONTH: Sep/October

CLASS: XII

Teacher's Activity	Student's Activity	Teacher's Observation And Remedial
Teacher will discuss the points that are to be remembered while finding the order and degree of a differential eqn. . help students to construct differential equations in a methodical manner after removing the constants. show how to categorise given differential equation and apply relevant method to solve them. give application-based questions.	Students will find order and degree of given differential equation and solve questions from Ex 9.1 and 9.2 solve Questions from EX 9.3 understand the various types differentiate able to apply them solve Questions from Ex.9.4 to 9.6 and miscellaneous on chap.9 simplify and solve application-based problems.	Teacher will write observation and remarks after the class . .

Teaching Aids: Smart board

Methodology/Innovative Methods: Discussion, Recall, Explanation, Question-Answer method

Interdisciplinary Links: Applied in Engineering, Science and Economics

Co-Ordinator

Vice-Principal

Principal