



weekly lesson schedule

Course Lecturer		Ban Refat Mohammed			
e-mail					
Title		Application of Mathematics			
Course Coordinator					
Course Objectives		To develop problem solving skills and understanding of differential equation			
Course Description		- Solving ordinary differential equations. - Converting functions to power series forms such as Taylor's series. - Using polar coordinates to solve problems. - Solving problems related to vector algebra. - Solving problem related to double integrals. - Solving problems of multi-variable functions.			
Textbooks		CALCULUS, Thomas, twelfth edition			
final exam 50	project	Assignment	daily exams	lab	Midterm Exam
		20	20		10
General Notes					



weekly lesson schedule

Week	Date	Topics Covered	Number of Hours	Notes
1	10-11-2024	Introduction – classification of Ordinary Differential Equations, Variable separable O.D.E,		

		Homogenous O.D.E		
۲	۱۷-11-2024	Exact O.D.E, Linear First order O.D.E, Bernoulli's O.D.E		
۳	2۴-11-2024	Solution of Homogenous Higher order D.E		
۴	۱-12-2024	Solution of non-Homogenous Higher order D.E.		
۵	۸ -12-2024	Definition of Sequence and series, Convergence Tests for Infinite Series		
۷-۶	15-12-2024 22-12-2024	Maclaurin's Series, Taylor's Series.		
۹-۸	29-12-2025 5-1-2025	Polar coordinates and Parametric Equations		
۱۲-۱۱-۱۰	12-1-2025 19-1-2025 26-1-2025	Vectors in Space, Dot Product, Cross Product		
۱۴-۱۳	2-2-2025 9-2-2025	Vector Valued Functions		
۱۵	16-2-2025	Functions of Several Variable, Chain Rule, Constant Level Curves		

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Head of Department signature: