



weekly lesson schedule

Course Lecturer		Huwwra Hazem Mhammd			
e-mail					
Title		Electromagnetic Fields			
Course Coordinator					
Course Objectives		This course introduces the student to the fundamentals of static electric and magnetic fields. Topics covered include:			
Course Description		1- .electric force field due to elementary stationary charge, 2- 2. the magnetic force field due to electric charge moving at uniform velocity, 3- 3. electric and magnetic forces, 4. stored electric and magnetic energy			
Textbooks		CALCULUS, Thomas, twelfth edition			
final exam 50	project	Assignment	daily exams	lab	Midterm Exam
		20	20		10
General Notes					



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Week	Date	Topics Covered	Number of Hours	Notes
١	1٠-11-2024	Vector algebra, position and distance vector, unit vector, fields, scalar and vectors.		
٢	١٧-11-2024	Addition, subtraction, and products of vectors		
٣	2٤-11-2024	Coordinate systems Cartesian, cylindrical, and spherical.		
٤	١-12-2024	Vector transformation,		
٥	٨-12-2024	Vector calculus, differential lengths, surfaces, and volumes. Integral of contours, surfaces, and volumes, flux and circulation.		
٧-٦	15-12-2024 22-12-2024	Del operator, gradient, divergence, and curl. Laplacian, stockes and divergence theories. Open and closed surfaces.		
٩-٨	29-12-2025 5-1-2025	Reviewing the materials and Med-term Exam		
١٢-١١-١٠	12-1-2025 19-1-2025 26-1-2025	Electrostatic, charges at rest, columbo's force, electrical field intensity, and charge density distribution types		
١٤-١٣	2-2-2025 9-2-2025	Electrical flux and flus density, gauss's law, first maxwell equations		
١٥	16-2-2025	Electrical potential, second Maxwell equation, dipoles, monopoles, and power and energy		

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Head of Department signature: