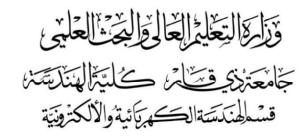
Ministry of Higher Education and Scinetific Research Thi-Qar University Collage of Engineering Electrical and Electronic Engineering Dept





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التاريخ: / / ٢٠

Course number and name	EE 3600: Antennas and Wave Propagation
Credits and contact hours	3 credits and 4 hours
Course coordinator	
Textbook	W. H. Hayt, Jr. and J. A. Buck, Engineering Electromagnetics.
	McGraw Hill, Eighth Edition (2012)
Course Information	a. Prerequisites: EE 2600 &EE2610 Electromagnetic Fields
	I&II
	b. Selective Elective
	-Plane electromagnetic waves, Lossless and lossy TEM waves
	- Polarizations, Normal and oblique incidence at PEC and
	dielectric boundaries
	-Total reflection and total transmission with applications in
	fiber optics
	-Transmission Lines, Single lossless and lossy transmission
	lines (frequency domain),—Transient analysis on transmission
	lines (time domain),Smith chart, Transmission line matching:
	single stub match, lambda/4 transformer, Coupled multi-
Topics to be covered	transmission lines,
عامة المتحالية	-Matrix-vector telegrapher's equations
	-Waveguides and Resonators, TM and TE modes, Dielectric
	waveguides, Rectangular cavity resonators: modes and quality
	factor
	-Antennas and Radiation systems, Hertz electric and magnetic
	dipoles, Linear antennas, Aperture antennas, Antenna
	parameters: near-field, measurements, Antenna arrays
	-Transmit-receive system
	-Radar equation
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