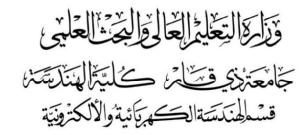Ministry of Higher Education
and Scinetific Research
Thi-Qar University
Collage of Engineering
Electrical and Electronic Engineering Dept

وزارة التعليم العالي والبحث العلمي
جامعة ذي قــار كـليّة الهنــدسَة
قسم الهندسة الكهربائية والألكترونية

العدد :

التاريخ :   /   /   ٢٠

Course number and name	**EE 3120: Probabilistic Methods of Signals and System Analysis**
Credits and contact hours	3 credits and 3 hours
Course coordinator	
Textbook	Probabilistic Methods of Signals & System Analysis, 3rd edition, George R. Cooper, 1999
Course Information	a. Prerequisites: EE 3100 Signals and Systems b. Required
Topics to be covered	-Probability and random experiments -Conditional probability and independence -Introduction to discrete and continuous random variables, probability mass functions and `densities -Functions of a random variable -Mean values and moments -Gaussian random variables and other probability density functions -Pairs of random variables -Conditional probability, correlation, and statistical independence -Introduction to hypothesis testing -Random processes (signals) and properties -The autocorrelation function and the spectral density -White noise -Response of linear systems with random inputs