Republic of Iraq
The Ministry of Higher Education & Scientific Research

University:Kufa
College:Education of girls
Department:Math
Stage:4th
Lecturer name:Ahmed AlAdilee
Academic Status:lecturer
Qualification:PhD
Place of work:Dep.of CS

Course Weekly Outline

Course Instructor	Ahmed Aladilee				
E_mail	Ahmeda.aladilee@uokufa.edu.iq				
Title	Mathematical Statistics				
Course Coordinator	Probability and Statistics				
Course Objective	To let students know the most important concepts about statistical distributions and their applications with some other statistical concepts like estimation, confidence intervals and test hypothesis				
Course Description	There are many statistical concepts need to be learned so that students are able to make decisions and know the most important statistical tools that are used in life and applied studies				
Textbook	Introduction to Mathematical Statistics, R. Hogg, A.Graig, 6th edition, Macmillan Co., Inc. New York,1998				
References	Introduction to Mathematical Statistics, R. Hogg, A.Graig, 6th edition, Macmillan Co., Inc. New York,1998				
Course Assessment	Term Tests	Laboratory	Quizzes	Project	Final Exam
	As (40%)	As (0%)	As (10%)	----	As (50%)
General Notes	Students need to have an excellent experience in calculus and probability				

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week	Date	Topics Covered	Lab. Experiment Assignments	Notes
1	1/10/2014	Introduction		
2	7/10/2014	Some special distributions, discrete type		
3	21/10/2014	Binomial, passion, geometric, distributions and their properties		
4	27/10/2014	Some special distributions, continuous type		
5	3/11/2014	Normal distribution and its properties		
6	17/11/2014	Transformation, p.d.f technique, discrete type		
7	24/11/2014	Transformation, p.d.f technique, continuous type		
8	1/12/2014	Sampling theory		
9	8/12/2014	Sampling distribution of sample mean and sample variance		
10	15/12/2014	Test1		
11	22/12/2014	Order statistics		
12	29/12/2014	Marginal and joint p.d.f of order statistics		
13	5/1/2015	Central limit theorem		
14	12/1/2015	Interval estimation theory		
15	19/1/2015	Definition and properties of I.V		
16	26/1/2015	Test2		

Half-year Break				
17	**16/2/2015**	**Confidence Interval and random interval**		
18	**23/2/2015**	**Point estimation theory**		
19	**2/3/2015**	**Definitions and properties**		
20	**9/3/2015**	**Properties of a good estimator**		
21	**16/3/2015**	**Efficiency and mean square error**		
22	**23/3/2015**	**Sufficient and rao Blackwell theorem**		
23	**30/3/2015**	**Method of estimations**		
24	**6/4/2015**	**Moments method, max. likelihood method**		
25	**13/4/2015**	**Least square method and Bayesian method**		
26	**20/4/2015**	**Test3**		
27	**27/4/2015**	**Test of hypothesis**		
28	**4/5/2015**	**Introduction, definitions and properties**		
29	**11/5/2015**	**Sample from the normal distribution**		
30	**18/5/2015**	**Type one and two error**		
31	**27/5/2015**	**Significance level of the test and likelihood ratio test**		
32	**1/6/2015**	**Test4**		

Instructor Signature: **Dean Signature:**