

Course Name	Statistics & Probability		Course Code	262 Math.		
Credit Hours	3		Contact Hours	Theory	Lab	Total
				2	2	4
Offered as	☐ University Requirement ☐ College Requirement ☒ Program Requirement				☒ Required ☐ Elective	
Offered in	☒ BS - Computer Science Engineering ☐ BS – Information Technology ☐ BS - Computer & Network					
Level	4 th Level		Prerequisite	NIL		
Course Description: This course provides an elementary introduction to statistics and probability with applications. This course also covers several topics specifically, basic definitions, graphs, measure of central tendency, measure of dispersion, theory of probability, random variables, probability distributions, correlation and linear regression.						
Course Objectives: These are the objectives of the course: - Familiarize with the concepts and principles of statistics and probability. - Describe discrete data graphically and compute measures of centrality and dispersion. - Construct the probability distribution of random variables, based on real world situations and use it to compute expectation and variance. - Compute averages and standard deviation of a series of independent observations of random variables. - Compute probabilities based on practical situations using Poisson, Binomial and Normal distribution. - Calculate correlation coefficient and to find regression line on the scatter diagram.						
Grading	☒ Exam 1	20%	☒ Exam 2	20%	☒ Assignment(s)	10%
	☒ Final	50%	☒ Lab	0%	☐ Mini Project	0%
Text Book: Bluman, A. G. (2014). Elementary Statistics a Step by Step Approach, 9th Edition, McGraw-Hill.						
Reference Book: Larson, R. C. & Farber, E. (2012). Elementary Statistics Picturing the World, 5th Edition, Prentice Hall / Pearson.						