

Course Name	Programming in Statistics & Probability	Course Code	114 COMP - 3			
Credit Hours	3	Contact Hours	Theory	Lab	Total	
			2	2	4	
Offered as	<input type="checkbox"/> University Requirement <input type="checkbox"/> College Requirement <input checked="" type="checkbox"/> Program Requirement			<input checked="" type="checkbox"/> Required <input type="checkbox"/> Elective		
Offered in	<input checked="" type="checkbox"/> BS - Computer Science Engineering <input type="checkbox"/> BS – Information Technology <input type="checkbox"/> BS - Computer & Network					
Level	4 th Level	Prerequisite	NIL			
Course Description: <p>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.</p>						
Course Objectives: <p>These are the objectives of the course:</p> <ul style="list-style-type: none"> • 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	<input checked="" type="checkbox"/> Exam 1	20%	<input checked="" type="checkbox"/> Exam 2	20%	<input checked="" type="checkbox"/> Assignment(s)	10%
	<input checked="" type="checkbox"/> Final	50%	<input checked="" type="checkbox"/> Lab	0%	<input type="checkbox"/> 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.