Sixteen Week Plan Faculty of Computing & Information Technology Department of Computer Science Hafiz Hayat Campus, University of Gujrat

Title	Probability and Statistics		
Code	STST-205		
Credit hours	3 Credit Hours		
Course Coordinator	Hifza Zulfiqar		
Course Description	Introduction of Statistics with real life examples, Organization of the Data; Frequency Distribution for Discrete and Continuous Data, Presentation of the Data; Chartsand Graph for Discrete &Continuous Data respectively, Representation of Data; Measure of Central Tendencies, Measure of Dispersion; Standard Deviation& its Relative Measure, Measure of Shape; Skewness and Kurtosis. Basic Probability Theory, Random Variable, Introduction of Probability distributions, Discrete Probability Distribution: Binomial, Hyper Geometric and Poisson Distribution. Continuous Probability Distribution: Normal Distribution. Regression and Correlation Analysis. Main objective of this course is that the Student will be able 1. To understand the basic concepts of statistics 2. To use the statistics in their field of study at basic level 3. To understand the basic concepts of Probability & Statistics		
Objectives			
Grading Policy	The course will be evaluated on the basis of the following percentage: Mid Term Sessional work Presentation/Practical Assignment/Practical Quizzes O5% Final term Some		
Grading System			

York: Longmans.			
 Johanson, J.L. (2003). Probability and Statistics for Computer Science. John Wiley & Sons. Stockburger, D.(2001)Introductory Statistics: Concepts, Methods and Application, Atomic Dog Pub 			
Basic knowledge of mathematics			
Recommendations for Learning Activities			
Book Reading			
Book Reading and Practice Exercise			
Practice Exercise			

Graphs for Continuous Data; Histogram, Frequency Polygon and Ogive. Quiz 1

Measures of Central Tendencies; Mean, Median & Mode for Ungrouped Data.

04

05

7&8

9&10

Chapter No 2 from text Book Practice Exercise

Practice Exercise

Chapter No 3 from text Book

Mean Median & Mode for Grouped Data Chapter No 3 from text Practice Exercise							
06		Mean, Median & Mode for Grouped Data	Chapter No 3 from text	Practice Exercise			
		Quantiles; Quartiles, deciles and percentiles for Ungrouped Data, Assignment 2	Book				
0	7	13&14	Quantiles for Grouped Data. Quiz 2	Chapter No 3 from text Book	Practice Exercise		
0) 8	15&16	Measure of Dispersion; Absolute & Relative Measure of Dispersion for ungrouped & grouped Data.	Chapter No 4 from text Book	Practice Exercise		
Mid Term Exam							
0	9	17&18	Moments about Mean, Coefficient of Skewness and Kurtosis using Pearson's, Bowley's and Moments-ratios bases Formulae.	Chapter No 4 from text Book	Practice Exercise		
1	0	19&20	Introduction of Probability Theory, Types of Events, Functions of Classical Probability with real world problems,	Chapter No 6 from text Book	Practice Exercise		
1	1	21&22	Exercise based on Probability.	Chapter No 6 from text Book	Practice Exercise		
1	2	23&24	Binomial probability distribution & numerical examples related to it.	Chapter No 8 from text Book	Practice Exercise		
1	13	25&26	Hyper Geometric Probability Distribution & numerical examples related to it.	Chapter No 8 from text Book	Practice Exercise		
1	4	27&28	Poisson Probability Distribution & numerical examples related to it.	Chapter No 8 from text Book	Practice Exercise		
1	15	29&30	Continuous Probability distribution; Normal distribution	Chapter No 9 from text Book	Practice Exercise		
1	6	31&32	Presentations of students & Discussion on Syllubus.				
Final Term Exam							