Department of Statistics, Bethune College

Programme Specific Outcome (PSO) and Course Outcome (CO) of Old System (1+1+1)

Name of the Programme	Year of Introduction	Programme Specific Outcome (PSO)	Course Outcome (CO)			
			Course Type	Course Code/ Paper	Course Name	Course Outcome
B.Sc. Statistics (Hons.)	2015	1.This programme will provide a very strong foundation in Statistical theorem and their applicability. 2.The students of this programme would have a strong understanding of using statistical tools to Identify, formulate, review and analyze statistical problems reaching substantiated. 3.The Students of this programme will also have a hand on experience of using different software. 4.This programme helps the students for prediction and modeling using Modern software. 5.The Students will develop effective communication skill, teamwork, leadership and managerial ability which play a strong role in future career in academic, industry and other field.	Honours	1A	Descriptive Statistics	Learn methods of graphical representation, summarization and interpretation of raw data.
				1 B	Probability Theory	Learn random experiment, example based classical approach and limitations, different theorems on probability.
				2 A	Linear Algebra and Population Statistics	Students of this course become strong in basic mathematics. Understand the interdisciplinary nature of demography, balancing equation, use of Myers and UN indices. Understand the measures of mortality and fertility. Describe the concept of life tables, logistic curve
				2 B	Practical comprising of Papers 1A,1B &2A	Learn use of spreadsheet (EXCEL)
				3 A	Mathematical Methods and Probability Theory II	Acquiring knowledge and applications with numerical methods
				3 B	Sampling Distributions and Statistical InferenceI	Quite important and widely used in Actuarial Science (insurance), Engineering, Physics, Biology, Computer Science and even Social Sciences such as Psychology, Economics and even Medical trials.
				4 A	Official &Economic Statistics and Statistical Quality Control	Gathering theoretical knowledge on data widely used by National Sample Survey Office, Ministry of Statistics and Programme Implementation, Govt. of India Learn the use of statistical methods in the monitoring and maintaining of the quality of

						products and services important in manufacturing and service sectors
				4 B	Practical comprising of Papers 2A, 2B & 3A	Learn use of Statistical software: MINITAB and Programming Language: C
				5 A	Multivariate Analysis and Large Sample Theory	Learn multivariate distributions and analysis techniques
				5 B	Statistical Inference II	Students of this course are taught how to handle data and draw inference from them
				6 A	Design of Experiments and Sample Survey Methods I	Students of this course are taught how to different factors affect the output of a process, how to plain an experiment to minimize error etc. Gathering theoretical and practical knowledge on sampling from finite populations
				6 B	Time Series Analysis and Sample Survey Methods II	Students of this course are taught to understand and predict the changes in economy
				7 A	Practical comprising of Papers 5A &5B	Students of this course are taught to solve practical on multivariate data and statistical inference
				7 B	Practical comprising of Papers 6A &6B	Students of this course are taught to solve practical on design of experiment, sample survey, time series data
				8A	Programming language C	Practical Use of Programme Language C
				8 B	Computation and Data Analysis	Students are trained in solving Statistical problems through Data analysis using Statistical Software MINITAB
			General	1	Descriptive Statistics and Elementary Probability Theory.	Students of this course learn the methods of graphical representation, summarization and interpretation of raw data Quite important an widely Used in Actuarial Science science (insurance), Engineering, Physics, Biology, Computer Science and even social sciences

						such as Psychology, Economics and even Medical trials.
				2	Introduction to Inference, Population Statistics, and Statistical Quality Control, sample Survey And Design of Experiment	Student of this course are taught how to handle data and draw inference from them . Students of this course are taught how to apply Statistical tools in different applied fields such as Statistical Quality Control, sample Survey and Design of Experiment
				3	Practical	Students of this Course are taught How to tackle different practical problems using different Statistical tools.