



**Shrimathi Devkunvar Nanalal Bhatt Vaishnav
College for Women (Autonomous)**

Owned and Managed by Cork Industries Charities Trust
Affiliated to University of Madras - Re-Accredited with 'A+' Grade by NAAC
Chromepet Chennai-600044



PG DEPARTMENT OF BIOSTATISTICS

M.Sc Biostatistics

CHOICE BASED CREDIT SYSTEM (CBCS)

&

LEARNING OUTCOMES BASED CURRICULUM FRAMEWORK (LOCF)

Batch 2024-2026

SEM	PART	COURSE TYPE	COURSE CODE	COURSE TITLE	CREDITS	HOURS	CI A	ES E	TOTAL
I Year I Seme ster	I	Core Theory -I	20PBSCT1001	Probability and Distribution Theory	4	5	40	60	100
	I	Core Theory -II	23PBSCT1002	Statistical Inference	4	5	40	60	100
	I	Core Theory -III	20PBSCT1003	Population Studies	4	5	40	60	100
	I	Core Practical - I	21PBSCP1001	Practical - I (Statistical Computing –I Using Excel)	4	4	40	60	100
	I	Elective Theory I Classroom/ Coursera	24PBSET1A01/ 24PBSET1B01	Statistical Genetics/ Genomic Data Science Specialization	3	6	40	60	100
	II	Skill Based Elective	22PSSCS1001	Cyber security	3		50	--	100
				Total	22				600
I Year II Seme ster	I	Core Theory -IV	23PBSCT2004	Sampling & Sample size determination	4	5	40	60	100
	I	Core Theory -V	21PBSCT2005	Applied Regression Analysis	4	5	40	60	100
	I	Core Theory -VI	23PBSCT2006	Design of Experiment and Bioassay	4	5	40	60	100
	I	Core Practical –II	21PBSCP2002	Practical - II (Statistical Computing - II Using Python)	4	4	40	60	100
	I	Elective Theory II Classroom/ Coursera	24PBSET2A02/ 24PBSET2B02	Categorical Data Analysis / Data Mining Specialization	3	5	40	60	100
	II	Soft Skill	18MOOC2002	Swayam (MOOC)	4		50		100
				Total	23				600
II Year III Seme ster	I	Core Theory –VII	20PBSCT3007	Applied Multivariate Analysis	4	5	40	60	100
	I	Core Theory –VIII	24PBSCT3008	Generalised linear Models	4	5	40	60	100
	I	Core Theory IX	24PBSCT3009	Epidemiology	4	5	40	60	100
	I	Elective-3 Theory Classroom/ Coursera	25PBSET3A03/ 24PBSET3B03	Spatial Statistics / Structured Query Language (SQL) using SAS	3	5	40	60	100

	I	Elective-4 Practical I	20PBSEP3001	Exploratory Data Analysis using SPSS	3	4	40	60	100
	II	Skill based elective	18PSSRS3003	Research Skills	3		50		100
		Internship	17PBSIP3001	Internship	2		40		100
				Total	24				700
II Year IV Seme ster	I	Core Theory X	23PBST4010	Survival Analysis	4	5	40	60	100
	I	Core Theory -XI	24PBST4011	Clinical Trials	4	5	40	60	100
	I	Core Practical- III	20PBSCP4003	Machine Learning using R	4	4	40	60	100
	I	Core Project I	20PBSPR4001	Project*	4		40	60	100
	I	Elective-5 Theory Classroom/ Coursera	24PBSET4A04/ 24PBSET4B04	Forecasting and decision making Techniques/ Introduction to Business Forecasting and Time Series data	3	6	40	60	100
	II	Soft Skill	23PSSCR4004	Coursera	4		50		100
				TOTAL	25				600
				GRAND TOTAL	94				2500

***Coursera– LMS course offered from Coursera Course**

SEM	CORE ELECTIVES	COURSERA COURSE
I	Statistical Genetics	Genomic Data Science Specialization
II	Categorical Data Analysis	Data Mining Specialization
IV	Forecasting and decision making Techniques	Introduction to Business Forecasting and Time Series Data