

**A.V.V.M. SRI PUSHPAM COLLEGE (AUTONOMOUS),
POONDI-613 503, THANJAVUR**



1.1.1 Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which is reflected in Programme outcomes (POs), Programme Specific outcomes (PSOs) and Course Outcomes (COs) of the Programmes offered by the Institution

COURSE OUTCOMES

B.Sc. STATISTICS (2017 - 2018)

Semester	Category	Paper Code	Title of the Paper	Outcome
I	Part – I	17U1STT1/H1	Tamil – I / Hindi – I	<ul style="list-style-type: none"> To know and get the awareness of resent tamil literature
	Part – II	17U1STE1	English – I	<ul style="list-style-type: none"> To initiate the Students to understand English through Prose, Poetry and Basic Communicative Grammar.
	Core	17U1STC1	Descriptive Statistics	<ul style="list-style-type: none"> On successful completion of the course students should have: known the history of Statistics and learnt data presentation in various forms.
	Core	17U1STC2	Probability Theory and Random Variables	<ul style="list-style-type: none"> On successful completion of the paper, the students should have understood the concepts of random variable, discrete, continuous, joint, marginal, conditional probability functions, expectation, conditional expectation and variance, generating functions, law of large numbers and central limit theorem and their applications.
	Allied	17U1STMAA1	Allied Mathematics-I	<ul style="list-style-type: none"> To introduce the basic concepts of summation of series and special types of matrices, theory & equation. To introduce Higher-level integral.
	Allied (NS)	17U2STMAA2	Allied Mathematics - II (N.S)	<ul style="list-style-type: none"> To introduce concepts of Hyperbolic function and correlation To introduce the concepts of numerical solution of ordinary differential equation and 3 dimensional analytical geometry
	ES	17U1STES	Environmental Studies	<ul style="list-style-type: none"> To get better awareness of Environmental Condition
	Part – I	17U2STT2/H2	Tamil – II / Hindi – II	<ul style="list-style-type: none"> To know and get the knowledge of Literature of the middle ages.
	Part – II	17U2STE2	English – II	<ul style="list-style-type: none"> To impart language and communicative skills through short stories, one act plays and communicative grammar

II	Core	17U2STC3	Discrete Distributions	<ul style="list-style-type: none"> On successful completion of the course, the students should have understood the applications and nature of the Discrete distributions such as binomial, Poisson...Normals.
	Core	17U2STCP1	Major Practical - I (Descriptive Statistics)	<ul style="list-style-type: none"> To simplify large amounts of data in a sensible way.
	Allied (NS)	17U2STMAA2	Allied Mathematics –II (NS)	<ul style="list-style-type: none"> To introduce concepts of Hyperbolic function and correlation To introduce the concepts of numerical solution of ordinary differential equation and 3 dimensional analytical geometry.
	Allied	17U2STMAA3	Allied Mathematics –III	<ul style="list-style-type: none"> To study vector differentiation and vector integration with application To study ordinary Differential equation and partial differential equation To study Fourier series and Laplace transforms
	SBE	17U2STS1	Skill Based Education – I Verbal Reasoning - I	<ul style="list-style-type: none"> Solve real life problems requiring interpretations and comparison of various representations of ratios.
	VBE	17U2STVE	Value based Education	<ul style="list-style-type: none"> To enhance the understanding of Human physical and mental health and the ability to maintain it well to the life and beyond.
	Part – I	17U3STT3/H3	Tamil – III / Hindi – III	<ul style="list-style-type: none"> To understand the differences and importance of Epics ,Essays, History of Tamil literature
	Part – II	17U3STE3	English – III	<ul style="list-style-type: none"> To introduce the language of the world renowned dramatist and novelist to enhance the vocabulary and communicative skills of the learners.
	Core	17U3STC4	Continuous Distributions	<ul style="list-style-type: none"> On completion of the course, the students should have understood the application and nature of the continuous distribution such as Normal, Gamma, Beta, Weibul, Cauchy distribution.

III	Core	17U3STC5	Statistical Inference - I: Theory of Estimation	<ul style="list-style-type: none"> Objective: On successful completion of this course, the students should have understood the concepts of Point estimation and interval estimation, and their properties, calculation of partial and multiple correlation coefficients and multiple linear regression line.
	Allied	17U3STCSA1	Allied Computer Programming in C	<ul style="list-style-type: none"> To introduce the techniques of C- Programming To solve the numerical problems using C
	GS	17U3MAGS	Gender Studies	<ul style="list-style-type: none"> To know the differences Understanding Gender to treat other genders with goodness
IV	Part - I	17U4STT4/H4	Tamil-IV / Hindi-IV	<ul style="list-style-type: none"> To know and get the knowledge of Classical, Sangam, Moral Literatures of Tamil language.
	Part - II	17U4STE4	English - IV	<ul style="list-style-type: none"> To prepare the learners for competitive examinations and to know the fundamentals of practical communication.
	Core	17U4STC6	Statistical Inference - II : Testing of Hypothesis	<ul style="list-style-type: none"> On completion of the course, the students should have gained knowledge on the methods of testing the hypothesis on different distributions and the nature of statistics to which such test procedure can be used.
	Core	17U4STC7	Sampling Techniques	<ul style="list-style-type: none"> On successful completion of the course the students should have understood sample and census surveys, errors that occur in surveys and various sampling methods and the different types of populations to which these sampling methods are applicable.
	Allied	17U4STCSA2	Allied Data Mining	<ul style="list-style-type: none"> To know about the architecture and concepts of data warehousing and mining.
	Allied (NS)	17U4STCSAP1	Allied Computer Practical (NS)	<ul style="list-style-type: none"> To know about the C- Programming Language.
	SBE	17U4STS2	Skill Based Education- II Verbal Reasoning - II	<ul style="list-style-type: none"> Distinguish between proportional and non proportional situations and when appropriate, apply proportional reasoning.

V	Core	17U5STC8	Operations Research – I	<ul style="list-style-type: none"> This course introduces the concepts, models and problem solving techniques of optimization problems. To enable the students gain knowledge about various optimization techniques like linear programming, duality in linear programming and integer programming.
	Core	17U5STC9	Statistical Quality Control	<ul style="list-style-type: none"> On successful completion of the course, the students should have understood various tools used such as control charts, sampling plans, quality system standards and reliability concepts to control the quality of industrial outputs.
	Core	17U5STC10	Game theory	<ul style="list-style-type: none"> Model and analyse conflicting situations using game theory.
	Core	17U5STCP2	Major Practical -II (Using Calculator)	<ul style="list-style-type: none"> Apply knowledge of calculator function to a range of mathematical calculations.
	Major Elective – I	17U5STEL1A 17U5STEL1B	Demographic Methods (or) Econometrics	<ul style="list-style-type: none"> On successful completion of the course the students should have understood about registered information of vital events, measurement of the events such as birth and death rates, life tables and population projection techniques. (or) <ul style="list-style-type: none"> Develop a way of thinking in quantitative terms.
	Major Elective - II	17U5STEL2A 17U5STEL2B	Simulation and Probabilistic Model (or) MATLAB	<ul style="list-style-type: none"> To introduce the techniques of constitution of Probabilistic Model. To introduce the simulating techniques of Model. Able to use MATLAB for interactive computations.
	NME	17U5STNME	Non-Major Elective - Matrix Algebra	<ul style="list-style-type: none"> Use computational techniques and algebraic skill essentials for the study of matrix algebra.
	SSD	17U6STSSD	Soft Skill Development	<ul style="list-style-type: none"> Developing organizational behavior and employment skills to the employment organizations

VI	Core	17U6STC11	Numerical Analysis	<ul style="list-style-type: none"> On successful completion of the course, the students will be able to estimate functional relationship, interpolate and extrapolate the value of dependent variable of the estimated function.
	Core	17U6STC12	Design of Experiments	<ul style="list-style-type: none"> On successful completion of this course the students should have understood the concept of analysis of variance, to compare more than two treatments with the help of F distribution for various designs employed, to estimate missing observations, to compare the efficiencies of various designs and the concept of ANCOVA
	Core	17U6STC13	Operations Research - II	<ul style="list-style-type: none"> This course introduces the concepts, models and problem solving techniques of optimization problems. To enable the students gain knowledge about various optimization techniques like linear programming, duality in linear programming and integer programming.
	Core	17U6STCP3	Major Practical -III (Using Statistical Software Package)	<ul style="list-style-type: none"> Gain knowledge about Statistical software package.
	Major Elective-III	17U6STEL3A 17U6STEL3B	Actuarial statistics (or) Genetical Statistics	<ul style="list-style-type: none"> To know about the Actuarial statistics. (Or) To know about the Genetical Statistics.
	Major Elective-IV	17U6STEL4A 17U6STEL4B	Time series and Index numbers (or) Statistical Data Analysis	<ul style="list-style-type: none"> To introduce the techniques of Statistic tools To solve the numerical problems using time series index numbers an vital statistics (or) To organize, manage and present data.
	GK	17U6STGK	General Knowledge	<ul style="list-style-type: none"> To make awareness of GK in Competitive World.

	CN	17U6STCN	Comprehensive Test	<ul style="list-style-type: none"> To gain micro level knowledge about the subject in statistics.
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