

SRI VENKATESWARA UNIVERSITY:: TIRUPATI
CENTRE FOR DISTANCE AND ONLINE EDUCATION



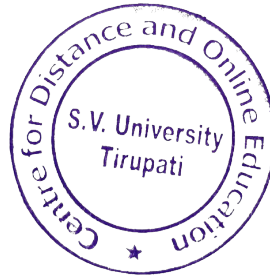
PPR for M.Sc. Statistics

Choice Based Credit System (CBCS)

Amended as per NEP-2020

(w.e.f. the Academic Year 2024-2025)


DIRECTOR
Centre for Distance and
Online Education (CDOE)
Sri Venkateswara University
TIRUPATI - 517 502.




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VISION:

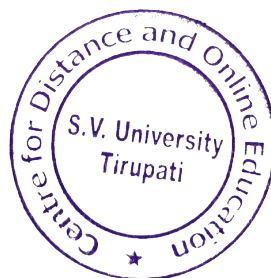
To en-corporate certain specific objectives and scale to prepare the students to take up challenges in any one or more functional domain

1. ACADEMICS
2. BASIC AND APPLIED RESEARCH
3. RESEARCH AND DEVELOPMENT
4. SOFTWARE SKILLS
5. INDURSTRY
6. STATISTICAL ANALYSIS

MISSION:

To bring out professional having knowledge of basic laws of nature together with strong fundamentals of in core areas of statistics viz. linear algebra, probablity and distributions, statistical inference, multivariate analysis, econometric methods, operations research-i, time series analysis and forecasting methods , operations research-ii. Specializations subjects like....Sampling techniques, stochastic process, linear models and applied regression analysis, computer programming and data analysis, demography and official statistics, bio-statistics, statistical process and quality control, advanced econometric models. Technical subjects like... statistical analysis using excel and spss, python, design and analysis of experiments, industrial statistics and quality control, statistical analysis using R + R practical's


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M.Sc., STATISTICS

CBCS Pattern (With effect from January, 2021)
The course of Study and Scheme of Examinations NEP 2021

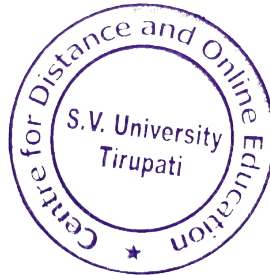
SEMESTER-I

Sl. No	Course Code	Components of Study	Title of the Course	Contact Hours	No. of Credits	IA Marks	End SEM Exam Marks	Total Marks
1	ST - 101	Core	Linear Algebra	6	4	20	80	100
2	ST - 102	Core	Probability and Distributions	6	4	20	80	100
3	ST - 103	Generic Elective	a. Sampling Techniques b. Stochastic Process	6	4	20	80	100
4	ST - 104	Compulsory Foundation (Related to Subject)	a. Statistical Analysis using Excel and SPSS b. Python	6	4	20	80	100
5	ST - 105	Core	Practical-I (75 Practical + 25 Record)	9	4	-	-	100
6	ST - 106	Elective Foundation	Practical-II (75 Practical + 25 Record)	9	4	-	-	100
7	ST - 107	Audit Course	Human Values and Professional Ethics-I	--	--	100	--	--
	Total			42	24			600

* **Among the Generic Electives the student shall choose ONE**

****Among Compulsory Foundation student shall choose ONE**


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SEMESTER-II

Sl. No.	Course Code	Components of Study	Title of the Course	Contact Hours	No. of Credits	IA Marks	End SEM Exam Marks	Total Marks
1	ST - 201	Core	Statistical Inference	6	4	20	80	100
2	ST - 202	Core	Multivariate Analysis	6	4	20	80	100
3	ST - 203	Optional-I	(a) Linear Models and Applied Regression Analysis (b) Computer Programming – C++	6	4	20	80	100
4	ST - 204	Optional-II	a. Design and Analysis of Experiments b. Industrial Statistics and Quality Control	6	4	20	80	100
5	ST - 205	Core	Practical-III (75 Practical + 15 Viva-voce + 10 Record)	9	4	-	-	100
6	ST - 206	Elective Foundation	Practical-IV (75 Practical + 15 Viva-voce + 10 Record)	9	4	-	-	100
7	ST - 207	Audit Course	Human Values and Professional Ethics-II	--	--	100	--	--
Total				42	24			600

- Student have to choose one paper from Optional-I
- Student have to choose one paper from Optional-II

SEMESTER-III

Sl. No.	Course Code	Components of Study	Title of the Course	Contact Hours	No. of Credits	IA Marks	End SEM Exam Marks	Total Marks
1	ST - 301	Core	Econometric Methods	6	4	20	80	100
2	ST - 302	Core	Operations Research-I	6	4	20	80	100
3	ST - 303	Core	Practical-V (75 Practical + 25 Record)	9	4	-	-	100
4	ST - 304	Generic Elective * (Related to Subject)	(a) Demography and Official Statistics (b) Bio-Statistics	6	4	20	80	100
5	ST-305 Skill Oriented Course	Mandatory (Theory + Practical-VI)	Statistical Analysis Using R + R Practicals	9 (3+6)	4	10	90 (40+50)	100
6	ST-306	Open Elective (For other Department)	(a) Statistics for Biological and Earth Sciences (b) Statistics for Social and Behavioral Sciences	6	4	20	80	100
Total				42	24			600

* Among the Generic Electives the student shall choose ONE

**Open Elective papers is for other department

SEMESTER-IV

Sl. No.	Course Code	Components of Study	Title of the Course	Contact Hours	No. of Credits	IA Marks	End SEM Exam Marks	Total Marks
1	ST - 401	Core	Time Series Analysis and Forecasting Methods	6	4	20	80	100
2	ST - 402	Core	Operations Research-II	6	4	20	80	100
3	ST - 403	Generic Elective * (Related to Subject)	(a)Advanced Econometric Models (b) Total Quality Management and Six - Sigma	6	4	20	80	100
4	ST - 404	Core	Practical-VII (75 Practical + 15 Viva-voce + 10 Record)	9	4	-	-	100
5	ST - 405	Project Work / Multidisciplinary (Theory + Practical-VIII)	Student Project: Data Centre / Institutions / Companies and etc., (or)Statistical Process and Quality Control(Theory+ Practical)	9=3T +6P	4	-	-	100
6	ST - 406	Open Elective (For other Dept.)	(a) Business Analytics (b) Survival Analysis	6	4	20	80	100
	Total			42	24			700

* Among the Generic Electives the student shall choose **ONE**

** **Open Elective papers is for other department**

** Primary or Secondary data collected from **Student Project** :Dissertation - 60 Marks
banks, fields or any other relevant areas Viva Voce - 10 Marks
are analyzed and submitted Presentation - 30 Marks

Total - 100Marks


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