Sri Venkateswara University, Tirupati
DEPARTMENT OF STATISTICS

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. Industry
6. Statistical Analysis

MISSION :

To bring out professional having knowledge of basic laws of nature together with strong fundamentals in core areas of statistics viz. linear algebra, probability and distributions, statistical inference, multivariate analysis, econometric methods, operations research, time series analysis and forecasting methods. Specialization 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 practicals

ABOUT THE DEPARTMENT

The department of Statistics was established in the year 1958 as a part of Mathematics Department then separated as an independent department in the year 1962. The department offers three post graduate courses (I) M.Sc., Statistics (ii) M.Sc., Applied Statistics and (iii) M.Sc., Applied Statistics (Self Finance Course). The department is active in organizing various academic programmes like conferences and workshops apart from teaching, research and consultancy. During the last five years department has organized about 20 events covering wide areas like Operations Research, Time Series, Stochastic modeling, Geo-Statistics, Bio-Statistics, Data Envelopment Analysis, Statistical computing.

The thrust areas of ongoing research in the department are time Series, Econometrics, Regression Models, Biostatistics, Operations Research, Stochastic modeling, Data Envelopment Analysis, UGC has identified the department for special assistance sanctioned Rs. 44 Lakhs plus 2 project fellows under SAP- DRS-I and 40 Lakhs plus 10 research fellows under BSR, DST sanctioned Rs. 16.5 lakhs under FIST Programme.

HEAD & BOS OF THE DEPARTMENT

Dr. B. Sarojamma completed M.Sc., Degree in Applied Statistics in 2000 Sri Venkateswara University, Tirupati and awarded Ph.D. in Statistics in the year 2006 on the topic "VARIABLE PREDICTION IN CRIME USING DATA ENVELOPMENT ANALYSIS". She Appointed as Assistant Professor in the Department of Statistics, Sri Venkateswara University in July, 2007 and promoted to Associate to Professor from July, 2019. Presently she is Head of the Department, Chairperson, BoS and Co-Ordinator, M.Sc., Applied Statistics (Self Finance Course). She is serving as University nominee and BoS member for various universities. She is life member in Indian Statistical Association, Pune, Indian Mathematical Society, Aurangabad, International Indian Statistics Association, Cochin, Andhra Pradesh Society for Mathematical Sciences, Hyderabad and Indian Society for Probability and Statistics (ISPS), Tirupati.

Areas of Research : Time Series, Econometric, Regression Analysis, Biostatistics etc.

She has 20 years of research and 20 years of at UG and PG level teaching experience. She organized 05 National Seminars and 02 National / international Workshop as Department events. She published 97 research papers in National and International journals and attended for 55 (Online & Offline) National and International Seminars, Conferences and Workshops. Authored 02 books and 5 book chapters. Under her guidance 08 Ph.D. degrees and 02 M.Phil. Degrees were completed. She received the Best Paper award in 2016 for Research Article.

She acted as resource person for several National and International Workshop / Seminar / Conferences

Laboratories :	1. e-class (Lab)	2. Computer Lab
Ph.D's awarded : 25	**Post doc's – Number + Details :** 01	

Fellowships : 02
2019-2020 (Number of UGC-NET Junior Research Fellow in the Department -01)
2020-2021 (Number of UGC-NET Junior Research Fellow in the Department -01)

ACADEMIC CONSULTANTS

Dr. K. Murali
M.Sc., (Applied Statistics)
M.Sc, (Mathematics)
Ph.D. in Statistics

Dr. M. Naresh
M.Sc. (Statistics), Ph.D.

Dr. P. Ramakrishna Reddy
M.Sc., (Statistics)
M.Sc, (Mathematics)
Ph.D. in Statistics

Courses offered	
➢ M.Sc., STATISTICS	➢ M.Sc., APPLIED STATISTICS
➢ M.Sc., APPLIED STATISTICS (SFC)	➢ Ph.D. (Full-Time & Part-Time)

CURRICULUM DETAILS FOR M.Sc. STATISTICS

M.Sc. STATISTICS

	Sl.No	TITLE OF THE PAPER
Semester - I	1.	Linear Algebra
	2.	Probability and Distributions
	3.	a. Sampling Techniques b. Stochastic Process
	4.	Practical-I (75 Practical + 25 Record)
	5.	Statistical Computing
	6.	Practical-II (75 Practical + 25 Record)
Semester -II	1.	Statistical Inference
	2.	Multivariate Analysis
	3.	(a) Linear Models and Applied Regression Analysis (b) Demography and Official Statistics
	4.	Practical-III (75 Practical + 15 Viva- voce + 10 Record)
	5.	Design and Analysis of Experiments
	6.	Practical-IV (75 Practical + 15 Viva- voce + 10 Record)
Semester – III	1.	Econometric Methods
	2.	Operations Research-I
	3.	Practical-V (75 Practical +25 Record)
	4.	(a) Computer Programming and Data Analysis (b) Bio-Statistics (c) Total Quality Management and Six Sigma
	5.	Practical-VI (75 Practical +25 Record)
	6.	(a) Statistics for Biological and Earth Sciences (b) Statistics for Social and Behavioral Sciences
Semester -IV	1.	Time Series Analysis and Forecasting Methods
	2.	Operations Research-II
	3.	Practical-VII (75 Practical + 15 Viva-voce + 10 Record)
	4.	(a) Statistical Process and Quality Control (b) Statistics for Research, industry and Community Development. (c) Advanced Econometric Models
	5.	**Student Project:** Data Centre / Institutions / Companies and etc.
	6.	(a) Business Analytics (b) Survival Analysis

M.Sc. APPLIED STATISTICS

	Sl.No	TITLE OF THE PAPER
Semester - I	1.	Linear Algebra
	2.	Probability and Distributions
	3.	a. Sampling Techniques b. Stochastic Process
	4.	Practical-I (75 Practical + 25 Record)
	5.	Statistical Computing
	6.	Practical-II (75 Practical + 25 Record)
Semester -II	1.	Statistical Inference
	2.	Multivariate Analysis
	3.	(a) Linear Models and Applied Regression Analysis (b) Applied Demography and Official Statistics
	4.	Practical-III (75 Practical + 15 Viva-voce + 10 Record)
	5.	Experimental Designs and Applications
	6.	Practical-IV (75 Practical + 15 Viva- voce + 10 Record)
Semester – III	1.	Applied Econometrics
	2.	Applied Operations Research
	3.	Practical- V (75 Practical +25 Record)
	4.	(a) Computer Programming and Data Analysis (b) Advanced Bio-Statistics (c) Data Mining and Information Security
	5.	Practical-VI (75 Practical +25 Record)
	6.	(a) Statistics for Biological and Earth Sciences (b) Statistics for Social and Behavioral Sciences
Semester -IV	1.	Applied Forecasting Methods
	2.	Reliability and Survival Analysis
	3.	Practical-VII (75 Practical + 15 Viva-voce + 10 Record)
	4.	(a) Statistical Quality Control (b) Statistics for Research, industry and Community Development (c) Actuarial Statistics
	5.	**Student Project:** Data Centre / Institutions / Companies and etc.,
	6.	(a) Statistics for Marketing Research (b) Statistical Analysis Using SPSS

Department-wise Seminars / Conferences organized					
Sl. No.	Name of the Seminar Director/Convenor	Title of the Seminar/ Conference	National/ International	Duration & Dates	Sponsoring agencies
1	2	3	4	5	6
1	Dr. B. Sarojamma	National Conference on Recent Advances on Statistical Significance in Research (RASSR-2020)	National	02 Days 17.02.2020 To 18.02.2020	RUSA
Department-wise Workshops / Training programs organized					
Sl. No.	Department	Workshop/Training programmes		Teaching / Non-Teaching	Duration & Dates
1	2	3		4	5
1	STATISTICS	National Workshop on Advances in Data Science Techniques (ADST-2020)		Teaching	2 days 15.02.2020 & 16.02.2020
2.	STATISTICS	International Workshop on Integrated Approaches of Stochastic Modeling and Data Science for Sustainable Development in conjunction with Golden Jubilee Celebrations of Department of Statistics, SVU, TPT		Teaching	07-11 Sep, 2022

Extension out such activities conducted by department