

Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore Department of Mathematics (GE for UG Students)

SUBJECT CODE	Category	SUBJECT NAME	TEACHING & EVALUATION SCHEME									
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			END SEM	MST	Q/A	END SEM	Q/A	Th	Ĺ		CREDITS	
MAUGGE04	GE	Descriptive Statistics	60	20	20	0	0	3	0	0	3	

Course Objective

To introduce the students with the Fundamentals of the Correlation and Regression.

Course Outcomes

After the successful completion of this course students will be able to:

- 1. understand the correlation and regression between two data sets
- 2. apply the concept of correlation and regression in real life problems
- 3. analyse the data sets for possible similarities
- 4. construct the line of best fit for a data
- 5. criticize the data based on correlations and regression.

Course Content:

UNIT - I

Correlation: Meaning of correlation, scatter plot, Karl Pearson coefficient of correlation and related examples.

UNIT – II

Rank Correlation: Spearman rank correlation coefficient, Tied ranks (repeated ranks) and untied ranks (non-repeated ranks) and related examples.

UNIT - III

Linear regression, regression coefficient, lines of regression and related examples.

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UNIT - IV

Method of least square for fitting of a straight line.

Chairperson

Board of Studies Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore

Chairperson

Faculty of Studies Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore

Controller of Examination

Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore

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UNIT - V

Curvilinear regression: parabola and exponential curve.

References:

- 1. Fundamentals of mathematical statistics, S.C. Gupta and V.K.Kapoor, sultan chand & sons.
- 2. Fundamental of statistics, Goon, Gupta and Dasgupta.
- 3. Statistical Methods: An Introductory Text, J. Medhi.

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