

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

SUBJECT CODE	Category	SUBJECT NAME	TEACHING & EVALUATION SCHEME									
			THEORY			PRACTICAL		Th	T	P	y,	
			END SEM	MST	Q/A	END SEM	Q/A	1.0			СКЕВІТ	
MAUGGE05	GE	Testing Hypothesis	of	60	20	20	0	0	3	0	0	3

Course Objective

To introduce the students with the Fundamentals of the Hypothesis Theory.

Course Outcomes

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

- 1. apply the testing of hypothesis in real life situations
- 2. analyse the hypothesis, errors in decision and confidence level
- 3. compare two populations
- 4. identify the independence of attributes.

Course Content:

UNIT - I

Introduction: null and alternative hypothesis, critical region and acceptance region, Type I and Type Il error, level of significance, p-value, power of the test, confidence interval.

UNIT - II

Small sample test: t-test for single mean, t-test for difference of means, paired t-test, critical value table of t-test, confidence limits.

UNIT - III

F-test for equality of two population variances, critical value table of F-test, confidence limits.

UNIT - IV

Exact sample test: Chi-square test for 'Goodness of fit'.

UNIT - V

Test of independence of attributes.

References:

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

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