

YEAR – I	ADVANCED BUSINESS STATISTICS	PCM701S
SEMESTER - II		HRS/WK - 6
CORE - 8		CREDIT - 5

Objective:

To apply statistics techniques for interpreting and drawing conclusion for business problems.

Unit-1 **[18 HRS]**

Correlation and regressions -Partial correlation-partial correlation coefficient –Partial correlation in case of four variables- Multiple correlation-Multiple regression.

Unit-2 **[18 HRS]**

Theory of probability rules – Baye’s theorem-Probability distribution –Characteristics and application of Binomial , poisson and normal distribution.

Unit-3 **[18 HRS]**

Sampling-Sampling methods –sampling error and standard error-relationship between sample size and standard error. Testing hypothesis testing of mean and proportions –large and small samples-Z test and t test.

Unit-4 **[18 HRS]**

Chi square distribution – characteristics and application – test of goodness of fit and test of independence – Test of homogeneity.

Unit-5 **[18 HRS]**

F distribution – testing quality of population variances-Analysis of variance –one way and two way classification.

Reference Books:

1. S.C. Gupta and V.K. Kapoor. *Fundamentals of Mathematical Statistics.*
2. S.C.Gupta and V.K. Kapoor. *Fundamentals of Applied Statistics.*
3. Sultan chand & Sons. S.P Gupta. 2000. *Statistical methods*, New Delhi:
4. D.C Sancheti and V K Kapoor, *Business statistics* , New Delhi: sultan chand and sons.
5. J.K. Sharma , *Business Statistics.* pearson Education
6. Dr D Joseph Anbarasu. *Business statistics and operations research.* Lintech press Trich.
7. Richard I Levin and David S. Rubit, 2002. *Statistics for management.* (Seventh ed.) pearson education. New Delhi: