Curriculum Plan (Even Semester 2025-26)

Teacher Name: Rachit Saini
Paper name: Intermediate Statistics for Economics
Class type: B.A (Hons) Economics, Semester II
Paper shared with: None

Unit to be taken	Month wise schedule to be followed	Tests/Assignments/ Presentation/Revision etc.
UNIT - 1: **Sampling distribution of a Statistic** Concept of Statistic and parameter, Sampling distributions, Central Limit Theorem	Jan (Week 1 – 4)	**Internal Assessment (IA) 30 marks** **Two class tests (12 marks each), and 6 marks for attendance** • Test 1 – Feb Week 2 • Test 2 – March Week 3 • Test 3 – April Week 2 **Continuous Assessment (CA) 40 Marks** **Overall Assessment (35 marks), and 5 marks for attendance** • Assignment – Feb Week 4 • Quiz/Assignment – March Week 3 • Presentation/ Assignment – April Week 2 **Revision** April (Week 3 – 4)
UNIT - 2: Estimation Estimator and methods of estimation, Point Estimation: method of moments and method of maximum likelihood; Interval Estimation, Properties of an estimator: Consistency, Unbiasedness, Efficiency and Sufficiency, confidence level and sample size, intervals based on Z-distribution, t-distribution and chi-squared distribution, F-distribution.	Feb (Week 1 – 4),	
UNIT – 3: Inference Meaning of a statistical hypothesis, errors in hypothesis testing: Type 1 and Type 2 errors, power of a test.	March (Week 2 – 4)	
UNIT - 4: **Hypothesis Testing** Testing of a population Mean, proportions - small and large sample tests, P-value; Testing for variance; Testing hypothesis for two samples, testing for equality of means; testing for ratio of variances.	April (Week 1 – 3)	

References

- Devore, J. (2012). Probability and Statistics for Engineers, 8th ed. Cengage Learning.