

# LESSON PLAN

CLASS - B Com

SEMESTER - II<sup>nd</sup>

Name of Assistant / Associate - Mrs. Jinan

Subject / Paper - Business statistics

Unit	Month	Subject Matter / Syllabus
1	January	Probability Distribution. Binomial, Poisson & Normal distributed
2	February	Correlation Analysis - meaning, Signification types & methods, Probable error Co-efficient of determination, Regression analysis - meaning equation, lines standard error of estimate.
3	March	Time series - Components, Models, trend analysis including second degree parabola and exponential formula measurement of seasonal cyclical and irregular variations, shifting the trend origin
4	April	Statistical Decision Theory - Ingredients expected opportunity loss, optimal decisions with maximin, minimax and Bayes principle statistical Quality Control.

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# LESSON PLAN

CLASS - M. Sc.

SEMESTER - II<sup>nd</sup>

Name of Assistant / Associate - Mrs. Jinam

Subject / Paper classical mechanics

Unit	Month	Subject Matter / Syllabus
1	January	Moments and Products of inertia, Angular momentum of a rigid body. Principal axes and Principal moment of inertia of a rigid body. Kinetic energy of a rigid body rotating about a fixed point. Momental ellipsoid of centre of mass
2	February	Free & constrained system, constraints of their classification. Holonomic & non holonomic systems, Degree of freedom of generalised coordinates, virtual displacement & virtual work, Statement of principle of virtual work. Possible velocity & acc
3	March	Hamiltonian variable of Hamiltonian $\mathcal{H}$ Donkin theorem. Ignorable coordinates Hamilton Canonical equation, Routh Variable of Routh function R. Routh equation Poisson brackets & their simple properties. Poisson identity. Jacobi - Poisson theorem
4	April	Canonical transformation, Necessary & sufficient condition for a canonical transformation. Hamilton - Jacobi equation. Jacobi theorem. Method of separation of variables in HJ equation Lagrange brackets, Invariant of Poisson Brackets under canonical

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# LESSON PLAN

CLASS - M. Com

SEMESTER - IInd

Name of Assistant / Associate - Mrs Jinam

Subject / Paper Sampling - & Estimation Techniques

Unit	Month	Subject Matter / Syllabus
1	January	Population, sample, sampling distribution, standard error, Testing of Hypotheses: Simple composite hypotheses, Null and alternative hypotheses, two types of errors, critical region and level of significance, one tailed test two tailed test Test of significance
2	February	Sample Versus Complete Enumeration, Designing of sample surveys, sources of Errors in sample surveys, Types of Non-Response Errors, Probability and Non-Probability Sampling: Sample Random Sampling with & without replacement for the estimation of Mean of total,
3	March	Satisfied Sampling Proportional and Optimum Allocation, Estimation of gain due to stratification, construction of strata, Determination of number of strata Systematic Cluster and Probability Proportional to size sampling comparison of stratified.
4	April	Analysis of Variance one-way, two way. Completely Randomized Designs, Randomized Block Designs and Latin Square Designs, factorial Experiment Definition Estimation of factor's effect Analysis of the factorial experiments.

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