

**TEACHING PLAN OF STATISTICS DEPARTMENT BSc 1st
SEMESTER (Major & Minor), 2023-2024**

UNIT	NAME OF TOPIC	NAME OF TEACHER
Unit I	Introduction to Statistics	K.Marwein
Unit II	Descriptive measure	E. Tariang
Unit III	Bivariate Analysis and Theory of Attributes	R. Chyne
Unit IV	Practical	R. Chyne, E. Tariang & K. Marwein

TEACHING PLAN OF STATISTICS DEPARTMENT BSc 1st SEMESTER (MDC), 2023-2024

UNIT	NAME OF TOPIC	NAME OF TEACHER
Unit I	Average- simple and weighted average, Ratio and Proportion. Percentage, Problems on Time and Distance. Simple interest- Bank interest – Average rate of interest: interest on installment payment Compound Interest (With the help of logarithms) Annuities- Annuity certain, Annuity due, Immediate Annuity and Deferred Annuity (With the help of logarithms) Profit and loss, Market price Discount- trade and cash discount	R.Chyne
Unit II	Bankers discount, true discount, Bill value, Present value, average due date and equation of payment Stock Exchange investment, transfer of stock and shares, Ex dividend and cum dividend prices Commission and Brokerage. Probability meaning and definition, Events, Trial, Random experiment, mutually likely events, mutually exclusive events, Favorable cases to an event	R.Chyne
Unit III	Statistics: Meaning, Application and Limitations. Measures of Central Tendency – Averages (Mean, Median, Mode) and Dispersion (Range, Quartile Deviation and Standard Deviation)	E. Tariang
Unit III	Diagrammatic Presentation of business data (Bar diagram, line diagram, pie and rectangular chart)	K.Marwein

TEACHING PLAN OF STATISTICS DEPARTMENT BSc 3rd SEMESTER, 2023-2024

UNIT	NAME OF TOPIC	NAME OF TEACHER
Unit I	<p>Sample Survey: Concept of Population and Sample, Comparison of Census and Sample Survey, Basic Principles in Sampling, Simple Random Sampling with and without Replacement (SRSWR and SRSWOR), Unbiased Estimators of Population Total, Mean and Their Variances, Confidence Intervals, Estimation of Proportion. Methods of Selection of Sample by SRSWR and SRSWOR, Determination of Sample Size.</p>	R.Chyne
Unit II	<p>Stratified Sampling with SRSWR and SRSWOR within each Stratum: Estimation of Population Mean, Population Total and Their Variances; Proportional Allocation, Optimum allocation; Comparison of Stratified Sampling with Unstratified Sampling for SRS.</p>	E.Tariang
Unit III	<p>Estimation of Proportion in Stratified SRSWR and SRSWOR. . Systematic Sampling: Variance of the Estimated Mean, Systematic Sampling versus Simple Random sampling. Systematic Sampling vs Stratified Random Sampling.</p>	E.Tariang

Unit IV	<p>Analysis of Variance for One-Way and Two-Way Classification with one Observation under Fixed Effect Model, Fundamental Principles of Design.</p> <p>Analysis of Categorical Data: Consistency of Categorical Data. Independence and Association of Attributes, Various Measures of Association for Two-Way Classification.</p>	R.Chyne
Unit V	<p>Basic Designs: CRD, RBD, LSD with Their Analyses. Estimation of one missing observation for RBD and LSD. Analysis of Factorial Experiments: 2^2 and 2^3</p>	K.Marwein