

Certificate Course in Basic Statistics & Econometrics

Syllabus

Syllabus and Time-Table of Econometrics Certificate Course In Basic Statistics and Econometrics

Course outcome: The objective of this course is to expose the students to the basic concepts of econometrics by focusing on the statistical foundations of econometric theory. This course would provide the knowledge of basic Statistics, developing the analytical skills of students and making them competent to study a graduate programme.

Duration: 6 months

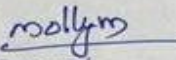
Teaching Hours: 3 hours per week

- Probability: Concepts of Sample Space and Events, Probability of an Event, Approaches to Probability (Classical, Empirical and Axiomatic), Addition and Multiplication Theorems; Conditional Probability and Independence of Events
- Concept of a Random variable, Discrete and Continuous Random Variable.
- Binomial distribution- its properties, normal distribution-its properties, Normal distribution as a limiting case of binomial distribution.
- Testing of hypotheses: Null and Alternative hypothesis, Simple hypotheses, Procedure for testing of hypotheses: Type I and Type II errors; power of a test; level of significance, Confidence Interval, confidence limits.
- Correlation: Meaning and Types of Correlation - Measurement of Correlation - Scatter Diagram - Karl Pearson's Coefficient of Correlation - Spearman's Rank Correlation - Regression: Simple Regression Model - Estimation - Least Squares Method.
- Two variable regression Model: Basic Ideas - Significance of Disturbance Term Method of Estimation: Ordinary Least Squares and Maximum Likelihood Estimation - BLUE Property

References

- Gupta S P. Statistical Methods, S. Chand and Company, New Delhi.
- Damodar N Gujarati, Basic Econometrics, McGraw Hill, International Student Edition.

Prerequisite- Knowledge of Basic Mathematics and Statistics is essential to pursue the course.


Principal
St. Bede's College
Shimia 171002

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Sample Certificate (2019-2023)



St. Bede's College, Shimla

NAAC Re-accredited 'A+' Grade

Department of Economics

Certificate

This is to certify that

Anusha Bhatt

has successfully completed a Course in Basic Statistics and Econometrics

w.e.f. 14.08.2019 to 18.03.2020

and her performance has been graded Outstanding/Good/Average.

Dr. Anupama Tandon
Head Economics Department

Ms. Nandini Pathania
Officiating Principal
St. Bede's College
Shimla



St. Bede's College, Shimla

NAAC Re-accredited 'A+' Grade

Department of Economics

Certificate

This is to certify that

Riya Sharma

has successfully completed a Course in Basic Statistics and Econometrics

w.e.f. 28th September 2021 to 11th March 2022

and her performance has been graded Outstanding/Good/Average

Dr. Anupama Tandon
Head, Economics Department

Prof. Sr. Molly Abraham

Principal Principal
St. Bede's College
Shimla 171002



ST. BEDE'S COLLEGE SHIMLA

(NAAC RE-ACCREDITED A +GRADE)

DEPARTMENT OF ECONOMICS

CERTIFICATE

This is to certify that

Ananya Sood

has successfully completed a course in Basic Statistics and Econometrics

w.e.f 14th September 2022 to 16th March 2023

and her performance has been graded Outstanding/ Good/Average

Anupama Tandon

DR. ANUPAMA TANDON

Head, Economics Department

Molly Abraham

PROF. SR. MOLLY ABRAHAM

Principal