



FACULTY DEVELOPMENT
PROGRAMME SERIES

ANALYTICS FOR RESEARCH IN MANAGEMENT

Organised by
Assam University
Silchar, Assam

**4TH JANUARY
2022 TO 28TH
JANUARY 2022**



THE DEPARTMENT OF BUSINESS ADMINISTRATION, ASSAM UNIVERSITY, SILCHAR IS GOING TO ORGANIZE FACULTY DEVELOPMENT PROGRAM (FDP) SERIES FROM 4TH JANUARY 2022 TO 28TH JANUARY 2022. THE PROGRAM SEEKS TO TARGET RESEARCH SCHOLARS AND ACADEMICIAN INTERESTED IN LEARNING ANALYTICAL TOOLS OF RESEARCH PRIMARILY ON MANAGEMENT. THE FOUR WEEKS FDP SERIES SHALL BE AN UMBRELLA PROGRAM COVERING FOUR COURSES VIZ, BASIC STATISTICAL ANALYSIS, TIME SERIES ANALYSIS, PANEL DATA ANALYSIS AND STRUCTURAL EQUATION MODELLING. THE SESSIONS SHALL BE CONDUCTED IN ONLINE MODE FROM 5:30PM TO 7:30 PM.

The course details is as follows

COURSE I

BASIC STATISTICAL ANALYSIS

TOPICS TO BE COVERED

SESSION I

SESSION II

DAY 1
(04.01.22)

Inaugural

*DATA- Nature, Collection,
Sampling,
Types of distribution.*

DAY 2
(05.01.22)

*Descriptive Statistics,
Normality Testing*

*Hypothesis Testing
Z-test, T-test, F-test*

DAY 3
(06.01.22)

*Analysis of Variance
One Way ANOVA, Two Way
ANOVA,
MANOVA with assumptions*

*Various Non-
parametric tests*

DAY 4
(07.01.22)

Correlation

*Cross-Sectional
linear regression*

DAY 5
(08.01.22)

*Simple and Multiple
Regression
With assumptions*

Logit Regression

COURSE II

TIME SERIES ANALYSIS

TOPICS TO BE COVERED

SESSION I

SESSION II

DAY 1
(10.01.22)

Inaugural

*Introduction to Time Series,
Deterministic and Stochastic trend,
Differencing & Detrending
Unit Root Testing*

DAY 2
(11.01.22)

*Forecasting
using ARIMA*

*Simple and Multiple time series
regression with its assumptions
(OLS Estimation)*

DAY 3
(12.01.22)

*Volatility
Estimation*

*Forecasting using
ARCH GARCH models*

DAY 4
(13.01.22)

*Granger
Causality*

ARDL Model

DAY 5
(14.01.22)

Co-integration

*Vector Auto regression (VAR)
and Vector Error Correction
Model*

COURSE III

PANEL DATA ANALYSIS

TOPICS TO BE COVERED

SESSION I

SESSION II

DAY 1
(17.01.22)

Inaugural

*Introduction to Panel Data,
Basic Diagnostics Checks,
Individual Effect, Time Effect*

DAY 2
(18.01.22)

*Omitted Variable Bias,
Endogeneity and Exogeneity,
Pooled Method*

Fixed Effect Model

DAY 3
(19.01.22)

*Random
Effect Model*

*SUR, Hausman
Testing*

DAY 4
(20.01.22)

*Dynamic Panel Data
Analysis-I
(Nickell Bias, GMM)*

*Nickell Bias,
GMM*

DAY 5
(21.01.22)

*Dynamic Panel Data
Analysis-II
(System GMM, Sargan
Test)*

System GMM, Sargan Test

COURSE IV

STRUCTURAL EQUATION MODELLING

TOPICS TO BE COVERED

SESSION I

SESSION II

DAY 1
(24.01.22)

*PCA, Factor
Analysis: EFA
Basics of CFA*

*Differentiation
between EFA & CFA*

DAY 2
(25.01.22)

*Testing reliability and
validity Testing, Model Fit,
Validity Measures*

*Zero order,
Second order,
First order CFA*

DAY 3
(26.01.22)

*Introduction to SEM
Variance Based and
Co-variance based
SEM*

*Working with SEM
(AMOS & PLS)*

DAY 4
(27.01.22)

*High order Effects:
Moderation, Mediation,
Interaction and Control*

*High order Effects:
Moderation,
Mediation,
Interaction and
Control*

DAY 5
(28.01.22)

*Three-way
interaction and Multi
Group Analysis*

*Three-way interaction
and Multi Group
Analysis.*

COURSE FEES AND PAYMENT DETAILS:

THE PROGRAM CAN BE DONE IN WHOLE OR IN ISOLATION. THE COURSE FEES IS AS FOLLOWS:

(10% DISCOUNT SHALL BE GIVEN ON TOTAL TO THE PARTICIPANTS REGISTERING FOR MORE THAN ONE COURSE).

COURSE I

**Basic Statistical
Analysis**

FEES

Rs.500 per participants

COURSE II

**Time Series
Analysis**

RS. 1000

Per Participants

COURSE III

**Panel Data
Analysis**

RS. 1000

Per Participants

COURSE IV

**Structural
Equation
Modelling**

RS. 1000

Per Participants

The registration fees should be paid as per the following details:

Account Name: Assam University, Project Account II

Bank and Branch Name: UCO Bank, Assam University Silchar

Account Number: 20050110035450

IFSC- UCBA0002005

****After Payment, Kindly share the screenshot of the transaction to the covenor and joint-covenor****

COURSE FEES AND PAYMENT DETAILS:

LAST DATE FOR RECEIPT OF REGISTRATION FORM AND FEES 22-12-21.

CHIEF PATRON

PROF. DILIP CHANDRA NATH
Vice Chancellor of Assam University

PATRON

PROF. A.L. GHOSH
Dean, JNSMS

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For any query, Please contact Convener or joint convener



sign up for

FACULTY DEVELOPMENT PROGRAMME

<https://forms.gle/3NBe7AbU7wwh44pX7>

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