



# Statistics for Researchers

**Classroom Training and Certification Program**

Jointly Delivered by



Indian Statistical Institute  
Pune Unit



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## PROGRAM OVERVIEW

Research is an unavoidable aspect of engagement for academia. Statistics is often used to reinforce a research point or subject. Statistics allows a domain research to proceed to the intended conclusion with factual arguments. However, not all researchers are able to understand the role of statistics and adapt it in their research.

In this program, the Indian Statistical Institute, Pune chapter outlines the topics that help researchers get clarity on the role of statistics in research.

## WHO SHOULD ENROLL?

- Researchers
- Faculty members.

## WHO SHOULD ATTEND?

Executive members of an organization

## EXAM AND CERTIFICATION

ISI will award participants a formal certificate of Statistics for Researchers after the participants pass a test conducted on the last day of the session with at least 70% score.

## PROGRAM CURRICULUM

### Introduction

Research methodology and statistics - the interface elements

## BASIC STATISTICS

- Data Preparation
- Problem Formulations
- Probability, Random Variable, Probability Distributions, Estimation, summaries of statistics and data visualisations
- Sampling distributions and Test of Hypothesis

## Multivariate statistics - Principal Factor Analysis and Factor Analysis, Clustering

## MODELLING

- Multiple Linear Regressions
- Logistic Regression
- Decision Tree

## DoE & ANOVA

Case Studies & Participants' Cases

## DURATION

Upto 4 Days (Customisable as per requirements)

**COURSE FEE: INR 8,000 (+GST)**

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**Certification - Awarded Jointly by  
The Indian Statistical Institute, Pune and edu plus now**

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