

Tribal Population Dynamics: A Data – Driven Perspective

Background:

Jharkhand's tribal communities, comprising over 26% of the state's population, face persistent socio-economic challenges despite targeted development efforts. Understanding their demographic patterns is essential for effective policy and planning.

This course equips students with practical skills to analyse tribal population data using **STATA**, focusing on key indicators such as fertility, literacy, and work participation. Using datasets like **Census 2011**, **NFHS-5**, and **LASI**, students will learn to clean, analyse, and present data effectively.

By the end of the course, participants will gain valuable experience in demographic analysis and data interpretation skills that are crucial for research, development work, and policy formulation related to tribal populations.

Proposal:

This course proposes a 30-hour training program focused on the demographic analysis of Jharkhand's tribal population using STATA. It combines conceptual understanding with hands-on data analysis using Census 2011, NFHS-5, and LASI datasets. The course is designed to build practical skills in demographic computation, data management, and evidence-based reporting, enabling students to engage meaningfully with tribal development issues.

Objective:

- To orient students, analyse the distribution and socio-economic challenges of tribal populations in Jharkhand.
- Apply STATA for basic statistical analysis.
- Develop skills to analyse, report, and present findings effectively.

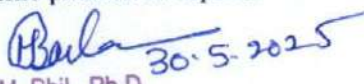
Methodology:

The course will adopt a combination of learning methodologies to help students gain a comprehensive understanding of demography and data analysis:

- Interactive lectures
- Hands on STATA sessions
- Presentation

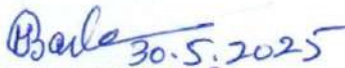
Outcome:

- Ability to clean, analyse, and interpret data using STATA.
- Competence in creating effective data visualizations.
- Capacity to compare and report disparities between tribal and non-tribal groups.
- Hands-on experience working with national datasets (Census, NFHS and LASI).
- Improved communication skills with the ability to develop and present brief, evidence-based demographic profiles or reports.


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Plan on Orientation Programme:

Module	Topics	Hours	Contents and Activities
1.	Introduction to Jharkhand's Tribal Population	3	<ul style="list-style-type: none"> Overview of tribal groups in Jharkhand. Socio-demographic context and disparities. Introduction to key data sources: Census, NFHS, LASI.
2.	Basic Demographic Indicators	4	<ul style="list-style-type: none"> Fertility (CBR, TFR), Mortality (IMR), Migration. Literacy, Dependency Ratio, Work Participation Rate. Calculations using census and sample data.
3.	Introduction to STATA	4	<ul style="list-style-type: none"> Basics of STATA interface and commands. Importing datasets (CSV file). Browsing, describing and exploring variables. Hands-on: Load and explore NFHS-5 (Jharkhand subset).
4.	Data Cleaning and Preparation	4	<ul style="list-style-type: none"> Variable labelling and recoding. Filtering tribal populations. Handling missing data. Creating new variables (e.g., age groups, literacy level).
5.	Basic statistical Analysis and visualization in STATA	6	<ul style="list-style-type: none"> Frequencies, cross-tabulations, means, percentages. Using tab, summarize, mean, graph bar, histogram. Visualizing demographic indicators. Hands-on: Compare literacy and fertility by tribe and gender.
6.	District-Level and Comparative Analysis	4	<ul style="list-style-type: none"> Analysis on ST vs other social groups differences (for different demographic indicators). District-wise demographic mapping (tables).
7.	Mini Project: Tribal Group or district profile	4	<ul style="list-style-type: none"> Choose a tribal group or district. Analyse 3-5 indicators using STATA. Interpret and summarize results. Visualize using tables/charts.
8.	Presentation	2	<ul style="list-style-type: none"> Present findings in small groups. Course recap and takeaways.


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Fee structure:

Each student will pay a fee of Rs. 2000/- to enrol for the programme.

Certification:

Each student will be awarded a certificate after the completion of the offered course.

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