HANDLING LARGE-SCALE UNIT LEVEL DATA USING STATA

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TYPE OF COURSE : New | Elective | UG/PG
COURSE DURATION : 8 weeks (18 Jan' 21 - 12 Mar' 21)
EXAM DATE : 21 Mar 2021

PRE-REQUISITES : Basics of Statistics
INTENDED AUDIENCE : Economics, Management, Sociology, Engineering, Science, Interdisciplinary
INDUSTRIES APPLICABLE TO : Consultancy, training and capacity building, Research and Business Analytics, professionals both teaching as research

COURSE OUTLINE :
The primary objective of this module is to enable learners in handling various large-scale complex database for detailed analysis. This attempts in identifying various complexities in these database. The latest statitistical software like STATA will be employed in explaining these concepts as stated in the module. This will be practically oriented. The module covers the topics from basics of data, their collection, tabulation and analysis. Topics include familiarization with unit-level data, collection, prerequisites, descriptive and inferential statistics, analysis of data using STATA, analysis of qualitative variables, and handling longitudinal data, etc.

ABOUT INSTRUCTOR :
Dr. Pratap Mohanty is presently a faculty member in the Economics discipline of Dept. of Humanities and Social Sciences, IIT Roorkee. He has over twelve years of teaching and research experience from reputed universties and institutions. Prior to IIT Roorkee, he was associated as Assistant Professor with Indian Institute of Foreign Trade (IIFT), New Delhi. While in IIFT, he was among the faculty members to train the trade professionals including IFS and IRS probationers. He has been teaching the paper ‘International Trade’ over six years to Masters and under graduate students. He was also a visiting professor and instructor for the paper ‘International Economics’ at IIM Indore

COURSE PLAN :
Week 1: Familiarization with Unit Level Data
Week 2: Collection of Unit Level data
Week 3: Prerequisites of Unit level Data
Week 4: Statistical Inferences
Week 5: Getting Started with STATA
Week 6: Analysis of Unit level Data
Week 7: Analysis of Qualitative Variables
Week 8: Analysis of Unit level Longitudinal Data