EXPLORING SURVEY DATA ON HEALTH CARE

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INTENDED AUDIENCE : Economics, Management, Sociology, Engineering, Architecture, Interdisciplinary, Health Care

INDUSTRIES APPLICABLE TO : Consultancy (KPMG, PWC, Deloitte, etc.), training and capacity building, Research and Business Analytics, professionals both teaching and research, health care industry, and services

COURSE OUTLINE :
The primary objective of this module is to enable learners to handle various large-scale complex health survey database for detailed analysis. The latest statistical software, like SPSS and STATA, will be employed in explaining these concepts, as stated in the module. This will be practically oriented. The module covers the topics from understanding health related variables and the data available, their collection, tabulation, and analysis. The data analysis will be performed on various real-life data (both quantitative and qualitative), which is crucial to any research. This also gives hands-on experience in conducting a primary survey.
Topics include familiarization with unit-level data, particularly NSSO, NFHS and IHDS. Also, collection, prerequisites, descriptive and inferential statistics, data analysis using SPSS and STATA, analysis of qualitative variables, handling longitudinal (panel) data, and health policy evaluation etc.

ABOUT INSTRUCTOR :
Prof. Pratap Mohanty is presently a faculty member in the Economics discipline of Dept. of Humanities and Social Sciences, IIT Roorkee. He has thirteen years of teaching and research experience from reputed universities and institutions. He has been teaching the paper 'Research Methodology' at IIT Roorkee for over four years to Masters' and PhD students. He has also organized a Quality Improvement Program as a coordinator on 'Quantitative Analysis of Qualitative Data using Large-Scale Database at IIT Roorkee. He has expertise in the NPTEL-MOOCs on large scale data handling.

COURSE PLAN :

Week 1: Introduction to Health Care Data

Week 2: Preparation for Field Survey on Health Care

Week 3: Testing of Sample Data

Week 4: Handling of Data Software

Week 5: Survey Data using STATA

Week 6: Analysis of Data

Week 7: Panel Survey Data

Week 8: Policy Evaluation of Health Care