



Division of Agricultural Economics  
ICAR-Indian Agricultural Research Institute  
New Delhi-110012



**NAHEP Sponsored Training Program**  
**on**

**Analytical Techniques for Empowering Social Science Research**  
**(7<sup>th</sup> to 18<sup>th</sup> August, 2023)**

**LECTURE SCHEDULE**

**Tea Break:** 11.00 to 11.30 Hrs. and 15:30 to 16.00 Hrs.

**Lunch Break:** 13.00 to 14.00 Hrs.

Day	Date & Time	Topic of Lecture/Practical	Speaker
<b>1</b>	<b>07-08-2023</b>	<b>Monday</b>	
	9:00-10:00	Registration & Inaugural Programme	Coordinators
	10:00-11:15	Emerging researchable issues & tapping data for research in Social Sciences	Dr. Alka Singh Head, Div. of Agril. Econ., ICAR-IARI
	11.30-13.00	Basic statistical methods and sampling techniques for social sciences	Dr. Girish Kumar Jha Head, Bioinformatics, ICAR-IASRI.
	14:00-15:30	Regression analysis: introduction to the concepts and application in social sciences	Dr. Chiranjit Mazumder Scientist, Agril. Stat., ICAR-IARI
	16:00-17:30	Regression analysis and diagnostics using R	Dr. Chiranjit Mazumder Scientist, Agril. Stat., ICAR-IARI
<b>2</b>	<b>08-08-2023</b>	<b>Tuesday</b>	
	9:30-11:00	Introduction to STATA– Descriptive statistics and regression analysis	Nithyashree M.L. Scientist, Agril. Econ., ICAR-IARI
	11:30-13:00	Analysing trade patterns of agricultural commodities- Application of SMART model	Dr. Renjini V.R. Scientist, Agril. Econ., ICAR-IARI
	14:00-15:30	The food security imperative for G20: Realizing the role of Indian agriculture	Dr. Smita Sirohi Joint secretary (G20/BRICS, SCO), Ministry of Agriculture & Farmers welfare
	16:00-17:30	Communication skills for effective presentations	Dr. Girijesh Singh Mahra Scientist, Agril. Extn., ICAR-IARI
<b>3</b>	<b>09-08-2023</b>	<b>Wednesday</b>	
	9:30-11:00	Utilizing satellite data for research in Social Sciences	Dr. Rajkumar Dhakar Senior Scientist, Agril. Physics, ICAR-IARI
	11:30-13:00	Introduction to mapping using QGIS- Creating study area maps and choropleth maps	Dr. Praveen K.V. Scientist, Agril. Econ., ICAR-IARI
	14:00-15:30	Spatial data analysis- spatial autocorrelation, clusters and hotspot using ArcGIS and NFHS data	Dr. Praveen K.V. & Sindhuja Reddy Agril. Econ., ICAR-IARI
	16:00-17:30	Measuring Agrobiodiversity and sustainability using index approach	Dr. Prem Chand Senior Scientist, ICAR-NIAP
<b>4</b>	<b>10-08-2023</b>	<b>Thursday</b>	
	9:30-11:00	Everything you wanted to ask about gender research in agriculture and were afraid to	Dr. Noline de Haan (Director, CGIAR Gender Platform) Dr. Ranjitha Pusskar & Dr. Niayati Singaraju (IRRI)
	11:30-13:00	Introduction to impact assessment methods and tools	Dr. Praveen K.V. Scientist, Agril. Econ., ICAR-IARI
	14:00-15:30	Difference in Difference analysis- when to apply and how?	Dr. M. Balasubramanian Scientist, Agril. Econ., ICAR- IARI.
	16:00-17:30	Synthetic Control Method for impact assessment	Prabhat Kishore.

			Scientist, ICAR-NIAP
<b>5</b>	<b>11-08-2023</b>	<b>Friday</b>	
	9:30-11:00	Panel data regression analysis	Dr. Elumalai Kannan. Associate Professor, JNU
	11:30-13:00	Computation of Virtual Water Trade in Crop Products	Dr. Elumalai Kannan. Associate Professor, JNU
	14:00-15:30	Qualitative data analysis: a conceptual introduction and hands-on using NVIVO	Dr. Vinayak Nikam ICAR-NAIP
	16:00-17:30	Application of structural equation modeling (SEM) in social science research	Dr. Sitaram Bishnoi. Scientist, Agril. Extn., ICAR-IARI
<b>6</b>	<b>12-08-2023</b>	<b>Saturday</b>	
	9:30-11:00	Understanding NSSO data extraction and analysis	Dr. Utkarsh Tiwari & Mr. Jagadeesh M.S. ICAR-IARI
	11:30-13:00	Structural break analysis- Hands on exercise using STATA	Dr. P. Anbukkani Senior Scientist, Agril. Econ., ICAR-IARI
	14:00-15:30	Visit to IARI fields	Coordinators
	16:00-17:30	Visit to IARI fields	Coordinators
	<b>13-08-2023</b>	<b>Sunday</b>	<b>Holiday</b>
<b>7</b>	<b>14-08-2023</b>	<b>Monday</b>	
	9:30-11:00	Introduction to time series analysis & application of forecasting methods in social science research	Dr. Achal Lama. Scientist, Agril. Stat., ICAR-IASRI
	11:30-13:00	Hands-on session on time series analysis and forecasting	Dr. Achal Lama. Scientist, Agril. Stat., ICAR-IASRI
	14:00-15:30	Agribusiness start-ups: a deep dive into their entrepreneurship journey	Dr. Akriti Sharma In charge, ZTM, IARI
	16:00-17:30	Mapping scientific literature in social sciences- An application of bibliometric analysis	Dr. Praveen K.V. Scientist, Agril. Econ., ICAR-IARI
	<b>15-08-2023</b>	<b>Tuesday</b>	<b>Holiday</b>
<b>8</b>	<b>16-08-2023</b>	<b>Wednesday</b>	
	9:30-11:00	Qualitative response models- Logit and Probit using STATA	Dr. Asha Devi S.S. Scientist, Agril. Econ., ICAR- IARI.
	11:30-13:00	Introduction to scientific writing, layout and designing of visuals	Dr. R.R. Burman ADG (Extension), ICAR
	14:00-15:30	Application of artificial intelligence and machine learning techniques in social science research	Dr. Girish Kumar Jha Head, Bioinformatics, ICAR-IASRI.
	16:00-17:30	Visit to Ashoka super computing facility	Coordinators
<b>9</b>	<b>17-08-2023</b>	<b>Thursday</b>	
	9:30-11:00	Approaches for estimating ecosystem services	Dr. Kiran Kumara T.M. Scientist, ICAR-NIAP
	11:30-13:00	Personality development- Understanding inner and outer self	Dr. Girijesh Singh Mahra Scientist, Agril. Extn., ICAR-IARI
	14:00-15:30	Application of cointegration in social science research	Dr. Rajeep Ranjan Kumar Scientist, Agril. Stat., ICAR-IASRI
	16:00-17:30	Research Writing in Social Science: Strategies for effective publications	Dr. Anjani Kumar IFPRI (SAO)
<b>10</b>	<b>18-08-2023</b>	<b>Friday</b>	
	9:30-11:00	Propensity score matching for measuring impact	Dr. Praveen K.V. Scientist, Agril. Econ., ICAR-IARI
	11:30-13:00	An introduction to synthesizing evidence from literature: Systematic review and meta-analysis	Dr. Praveen K.V. Scientist, Agril. Econ., ICAR-IARI
	14:00-15:30	Utilizing software for managing references in scientific writing- Demonstration using Mendeley	Dr. Praveen K.V. Scientist, Agril. Econ., ICAR-IARI
	3:30-17:30	Valedictory session	NAHEP Core team