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DEPARTMENT OF ECONOMICS

No: ECO/24/316 Date: 01.05.2024

TWO DAYS WORKSHOP ON R SOFTWARE

(A State University under Haryana Act No. XXV of 1975) NAAC Accredited 'A⁺' Grade

The Department of Economics will organize a two days workshop on R Software. R is open source software, which is used by the researchers for data entry and analysis. This workshop will be organized on 2nd and 3rd May 2024 at SWARAJ SADAN, MDU Rohtak.

The session will cover topics on basics of statistics and R, Data Entry and Analysis using R, Importing and Exporting Data file, R studio, Univariate, Bivariate and Multi-variate Analysis

Dr. Preeti Dabas, an alumni of the Department of Economics who is working as faculty at SRM University Sonipat, has been requested to conduct the workshop sessions.

The research scholars from Social Sciences Faculty and other faculties are invited to participate in the workshop. Participants are encouraged to come with laptops if available for hands on training. The timing of workshop is 10:00 AM to 04:00 PM.

The registration/course fee: NIL

The registration link for participants is given below:

https://forms.gle/WPCS3PxRxeMyeKvc6

Rajesh Kumar Head, -cum-Coordinator, Research & Development Faculty of Social Sciences

Hypothesis Testing and Data Analysis using R

DAY-1

	nes of Statistics (Descriptive and Inferential)	(20 minutes)
Levels	of Measurement(Nominal, Ordinal, Interval, Ratio)	(20 minutes)
Hypot	hesis Testing: Meaning, Types and the Associated Erro	ors (20minutes)
Key Co	oncepts Related to Hypothesis Testing:	
0	Probability Value (p-Value)	(20 minutes)
0	Level of Significance	(20 minutes)
0	Understating the meaning of statistically significant	(20 minutes)
	====== Break ====	
0	Connecting the Dots: <i>p</i> -Value and Level of Significant	ce (20 minutes)
0	Does the Insufficiency of Evidence to Reject the Null	Hypothesis Imply its Acceptance?
	(20 r	ninutes)
0	Confidence Level and Confidence Interval	(20 minutes)
0	Power of a Test	(10 minutes)
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	******	_****(30 minutes)
Interfa	ce of RStudio .nalysis using R and Interpreting Results	
Interfa	a ce of RStudio Analysis using R and Interpreting Results Univariate Analysis	
Interfa Data A	a ce of RStudio Analysis using R and Interpreting Results Univariate Analysis Bivariate Analysis:	(30 minutes) (20 minutes)
Interfa Data A 0	 ace of RStudio analysis using R and Interpreting Results Univariate Analysis Bivariate Analysis: testing the association between two categorical values 	(30 minutes) (20 minutes) riables(30 minutes)
Interfa Data A 0	 ace of RStudio analysis using R and Interpreting Results Univariate Analysis Bivariate Analysis: testing the association between two categorical va testing the impact of independent variable (categorical categorical categorical	(30 minutes) (20 minutes) ariables(30 minutes) tegorical/continuous) on dependen
Interfa Data A 0	 ace of RStudio analysis using R and Interpreting Results Univariate Analysis Bivariate Analysis: testing the association between two categorical value testing the impact of independent variable (categorical) 	(30 minutes) (20 minutes) uriables(30 minutes) tegorical/continuous) on dependen ninutes)
Interfa Data A 0	 ace of RStudio analysis using R and Interpreting Results Univariate Analysis Bivariate Analysis: testing the association between two categorical value testing the impact of independent variable (categorical) wariable (40 model) Here Results 	(30 minutes) (20 minutes) ariables(30 minutes) tegorical/continuous) on dependent ninutes)
Interfa Data A 0	 ace of RStudio analysis using R and Interpreting Results Univariate Analysis Bivariate Analysis: testing the association between two categorical value testing the impact of independent variable (categorical) 	(30 minutes) (20 minutes) ariables(30 minutes) tegorical/continuous) on dependen ninutes) ======= s (paired and unpaired)(20 minutes)

• How to take forward the learning from here (1 hour)