

**ONLINE TRAINING SCHEDULE FOR**

**Basics of Research and Analysis using R (13<sup>th</sup> Mar- 17<sup>th</sup> March, 2023)**

**NOTE: Inaugural ceremony of the training program will be done by Prof. Mini Chandran, Head HSS, IIT Kanpur  
On 13<sup>th</sup> Mar. 2023 (Monday) from 9:30 AM**

<b>Time</b>	<b>Day 1 (Monday, 13 Mar 2023)</b>	<b>Day 2 (Tuesday, 14 Mar 2023)</b>	<b>Day 3 (Wednesday, 15 Mar 2023)</b>	<b>Day 4 (Thursday, 16 Mar 2023)</b>	<b>Day 5 (Friday, 17 Mar 2023)</b>
<b>10:00 AM - 11:15 AM</b>	Framing a research problem	Need and types of data	Distribution of data	Testing association and correlation	Regression
<b>11:30 AM - 12:45 PM</b>	Hypothesis formulation	Data collection methods	Techniques to summarize data	Confidence intervals and P-value	Interpreting statistical results
<b>Lunch Break (12:45 PM - 02:30 PM)</b>					
<b>2:30 PM - 3:45 PM</b>	Introduction to Popular Softwares to handle data (SPSS, Excel, R)	Setting up RStudio	Summarizing data and exporting results in RStudio	Test of association and correlation in RStudio	Running simple regression in RStudio
<b>04:00 PM - 05:15 PM</b>	Recap and Quiz	Recap and Quiz	Recap and Quiz	Recap and Quiz	Recap and Valediction