

Workshop organized by IQAC Cell

Theme- “Innovative Techniques in Data analysis for Faculty Members and Research Scholars”

Date- 5 March 2020

Resource Person- Dr. Punit Mishra

This workshop on innovative techniques in Data Analysis for faculty members and research scholars was organized by IQAC LU. Workshop was held at ONGC Building and there were 70 participants from University of Lucknow and affiliated colleges.

Resource person Dr. Punit Mishra insisted that because of rapid changes arising in the modern world have caused the higher education system to confront with variety of challenges. He insisted that this is why faculty members need to get trained in interdisciplinary fields. Thus it has been found that research and exploration to come with useful and effective teaching and learning methods are the most urgently needed necessities to be catered by the educational institutions.



In terms of enrolment Indian higher education system presently is the IInd largest at the world level. The capability, capacity and the quality of faculty members will definitely develop and maintain the quality of students and in turn the quality of available manpower on human resource. Dr. Punit Mishra emphasized on the idea of foundation of Data science and which is

based on the integrated approach to introductory computer science and statistics. As per him this will allow to use data-driven methods and will allow to think critically about the global world, to draw conclusions from the data available and also to give effective explanation about the result. Dr. Punit Mishra emphasized further that data analysis is the kind of process by means of which researchers go from a jumbled data to meaningful insights. He insisted that there are several distinct data analysis methods which can be used by the researcher as per need of the research he is involved in. he talked about some **data analysis techniques like** – for **analyzing quantitative data**- first stage is Data Preparation(it has four steps; Step1- Data Validation, Step2- Data Editing, Step3- Data coding, Step4- Quantitative Data Analysis). he further insisted that for **Analyzing Qualitative Data**- there is Data Preparation (it has four steps- Step1- to know the data, Step2- Research objectives are to be revisited, Step3- to develop framework, Step4- to reveal patterns and connections. He also clarified that there are **various Qualitative Data Analysis Methods like**- Content analysis, Narrative analysis, Discourse analysis, Grounded theory.



Dr. Punit Mishra emphasized that Data analysis in research has got most important place as, if there is weak analysis then results emerged may become irrelevant and may lose their gravity and authenticity.