

Hands-on training on Data Analysis Demystified

The 5-day National level Hands-on Training on "**Data Analysis Demystified**," held from **March 18th to 22nd, 2024**, at AIU-Chitkara University, Himachal Pradesh-Academic and Administrative Development Centre (AIU-CUHP-AADC), in collaboration with the Internal Quality Assurance Cell (IQAC), showcased a concerted effort towards enriching the higher education landscape with contemporary technological insights. Spearheaded by luminaries like Dr. Ashok K Chitkara, Chancellor of Chitkara University, and Dr. Madhu Chitkara, Pro-Chancellor, alongside esteemed figures such as Dr. Rajnish Sharma, Vice Chancellor of CUHP, and Dr. Meenu Khurana, Pro-Vice Chancellor of CUHP, the initiative aimed at augmenting capacities within academia. Supported by notable advisors including Dr. Amarendra Pani and Dr. (Mrs.) Pankaj Mittal, the event witnessed proactive involvement from a dedicated organizing team, led by Dr. Abhishek as the Nodal Officer, Dr. Pradeepta Sarangi as the Programme Coordinator, and Dr. Monika Parmar, contributing significantly to its success. Led by seasoned experts like Dr. Monika Parmar, Dr. Sapna Saxena, and Mr. Gulshan Matta, the workshop provided participants with hands-on learning experiences, bridging theoretical concepts with practical applications, and fostering a profound comprehension of data analysis methodologies and techniques. AIU-AADC-FDP was coordinated by Dr Usha Rai Negi, Consultant Research Division, AIU.

On the first day, March 18, 2024, Dr. Rajnish Sharma emphasized the significance of advanced technical tools in data analysis during the inaugural session. Subsequently, participants engaged in hands-on exercises, guided by Dr. Monika Parmar, Dr. Sapna Saxena, and Mr. Gulshan Matta, covering fundamental concepts such as cell referencing, functions, and formatting cells.

Dr. Monika Parmar, Dr. Sapna Saxena, and Mr. Gulshan Matta took the lead on March 19, 2024, discussing advanced data analysis techniques, including conditional functions, data validations, and macro operations. Attendees were actively involved in creating Excel sheets for student data and analyzing academic performance using conditional functions.

March 20, 2024, focused on data visualization and manipulation techniques, with sessions led by Dr. Monika Parmar, Dr. Sapna Saxena, and Mr. Gulshan Matta. Participants learned to create visually appealing charts, filter and sort data efficiently, and apply conditional formatting rules.

The agenda for March 21, 2024, included sessions on advanced analytical techniques, with Dr. Monika Parmar, Dr. Sapna Saxena, and Mr. Gulshan Matta guiding participants through pivot tables and charts, WhatIf analysis, and error handling.

The concluding day, March 22, 2024, featured sessions on creating dashboards and exploring AI applications in data analysis, led by Dr. Monika Parmar, Dr. Sapna Saxena, and Mr. Gulshan Matta. Practical exercises involved analyzing car sales data and grading based on predefined criteria.

Among the participants, those affiliated with Chitkara University constitute the majority, comprising **20 individuals**. These participants are actively engaged in various academic roles within the university, spanning faculties such as nursing, computer science, and administration. They bring diverse perspectives and expertise to the table, contributing to the enriching discussions and collaborative learning environment during the sessions.

Dr. Meenu Khurana delivered closing remarks during the valedictory session, expressing gratitude to all stakeholders and highlighting the importance of continuous skill enhancement. Throughout the five-day program, participants from various academic institutions engaged in hands-on learning experiences, combining theoretical concepts with practical applications to enhance their proficiency in data analysis tools and techniques.