

Department of Mathematics
National Institute of Technology Raipur

Report

The Department of Mathematics has successfully conducted five days National level Faculty Development Program on “Data Science with Statistical Methods using R Programming: Contribution and Developments” during 21st September to 25th September 2020, **organized by the Department of Mathematics, NIT Raipur, sponsored by AICTE training and Learning (ATAL) Academy.**

The FDP has been started on 21st September 2020 at 12:10 P.M. with inaugural function. The inaugural function was presided by **Dr. A. M. Rawani**, Director, NIT Raipur as the Chief Guest of the function. **Dr R K Jana**, IIM was the special guest of the program. HOD Mathematics and Coordinator of the FDP **Dr. Arvind Kumar Sinha** and second coordinator of the FDP **Dr. Anup Kumar Sharma** have also shared the views during the inaugural function.

Distinguished experts from NITs, IIITs, IIMs and other reputed institutions from India have been invited for this FDP. **Dr. R. K. Jana**, IIM Raipur has delivered lecture on linear regression and multiple linear regression using R. **Prof. G N Singh**, IIT ISM Dhanbad has given lectures on role of survey sampling in data collection and non response in sample survey. **Dr. A. K. Sinha** has given lecture on introduction to statistical methods in data sciences. **Dr. A. K. Sharma** has done practical case study with hand on practice giving introduction to R. A beautiful session was conducted on yoga and meditation **by Rajiv Nair** [by Boost up our immunity through yoga and meditation with science of breath]. **Dr. D. Maheta**, VNSGU Surat has delivered lectures on graphical representation, normality testing in R, logistic regression in R, and parametric tests & predictive modeling in R with hand on practice. **Dr. S. Kayal**, NIT Rourkela has given lectures on point and interval estimations, parametric and non-parametric test and test of hypothesis. **Mr. Saurabh Agrawal**, HBTU Kanpur has given lectures on clustering in R programming, random forest in R, and decision tree in R.

In this STTP, **201** participants were registered from all over the country. Among them **114** were given online participation certificate by ATAL to the participants who have qualified/fulfilled the ATAL criterion [minimum 80% attendance in FDP and minimum 60% marks in test examination conducted]. The valedictory function of the STTP was conducted on 25th September 2020. This function was presided by **Dr. Prabhat Diwan**, Dean (S/W) NIT Raipur as the Chief Guest of the function. **Mr. Saurabh Agrawal**, HBTU Kanpur was the special guest of the program. The overall report of the FDP was given by Head of Department of Mathematics and Coordinator of the FDP **Dr. A. K. Sinha**. Vote of thanks was given by **Dr. A. K. Sharma**. All the participants had praised the organizing committee for smooth conduction of the FDP in their feedback. We hope all the participants have learned the R programming with basics of statistical methods and how it is used to solve real world problems. Overall the FDP was very much successful.

Dr. Arvind Kumar Sinha
(First Coordinator)

Dr. Anup Kumar Sharma
(Second Coordinator)

