



**Indira Gandhi Delhi Technical University For Women**  
(Established by Govt. of Delhi vide Act 09 of 2012)  
**Kashmere Gate, Delhi - 110006**

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**Report on**  
**ICT based Short Term Course**

**On**

**Data Science Using R**

Dept. of CSE organized ICT based Short Term Course on “Data Science Using R” from 26-11-2018 to 30-11-2018 in collaborations with NITTTR Chandigarh and it was attended by 37 participants from the university. The participants have successfully completed the hands on experiments and gain a great exposure to R language for Data Science.

**Objectives of Course:**

- To learn the basics of R Programming.
- To install R software and working using R Interface.
- To use various data structures available in R for data input and storage of data.
- To understand descriptive and inferential statistics fundamentals and to implement descriptive and inferential statistics methods in R.
- To perform graphical analysis, predictive analysis using R.
- To extract and analyse real time streaming data and sentiment analysis in R
- To analyse interdisciplinary datasets in R and preprocessing of data.

**Course Content:**

Day	9:30 - 11:00 a.m.	11:00- 11:30	11:30 a.m. - 1:00 p.m.	1:00 p.m.- 2:00 p.m.	2:00 p.m.- 4:00 p.m.
26.11.2018 (Monday)	Inauguration and Registration (TP / Jajot/Nisha)	Tea-Break	Introduction to R Programming and Installation (RK)	L U N	Basic programming in R (Er. Shano Solanki)
27.11.2018 (Tuesday)	Introduction to Data Structures : Vectors and Matrices (Dr. Gaurav Kumar)		Data Structures : Arrays, Lists, Data frames and Practice (Dr. Gaurav Kumar)	C H B	Graphical Analysis-I (Er. Shano Solanki)
28.11.2018 (Wednesday)	Creating and Importing Datasets, Reshaping and Transformation of Data (Dr. Gaurav Kumar)		Missing Values Treatment and Imputation in R, Analytics of Web Data, JSON, CSV and XML (Dr. Gaurav Kumar)	R E A K	Graphical Analysis-II (Er. Shano Solanki)
29.11.2018 (Thursday)	Social Media Mining and Predictive Analysis using R (GK)		Big Data Toolboxes and Packages, BigMemory, Data Reduction Packages and Interpretation (GK)		Inferential and Descriptive Statistics using R-I (Dr. Shikha Sharma)
30.11.2018 (Friday)	Data Mining and Machine Learning using CARET tool- I (Er. Nanak Chand)		Data Mining and Machine Learning using CARET tool R Studio – II (Er. Nanak Chand)		Feedback and Evaluation (Er. Shano Solanki)
<b>Course Coordinator: Mrs. Shano Solanki, Asst. Prof., CSE , NITTR, Chandigarh</b>					

**Dr. Rakesh Kumar, Asst. Prof., CSE, NITTTR, Chandigarh**

**Dr. Shikha Sharma, Sr. Project Manager and Corporate Trainer, Olam Solutions Pvt. Ltd., Chandigarh**

**Dr. Gaurav Kumar, Managing Director, Magma Research and Consultancy, Pvt. Ltd., Ambala**

**Er. Nanak Chand, Senior Analyst DataScience at RaiYatri.in**

**Technical Assistance: Mr. Santosh Tiwari- 8557057880**

  
4/12/2018

**Ms. Khyati Ahlawat**

**(Coordinator)**

**Assistant Professor**

**Department of CSE**