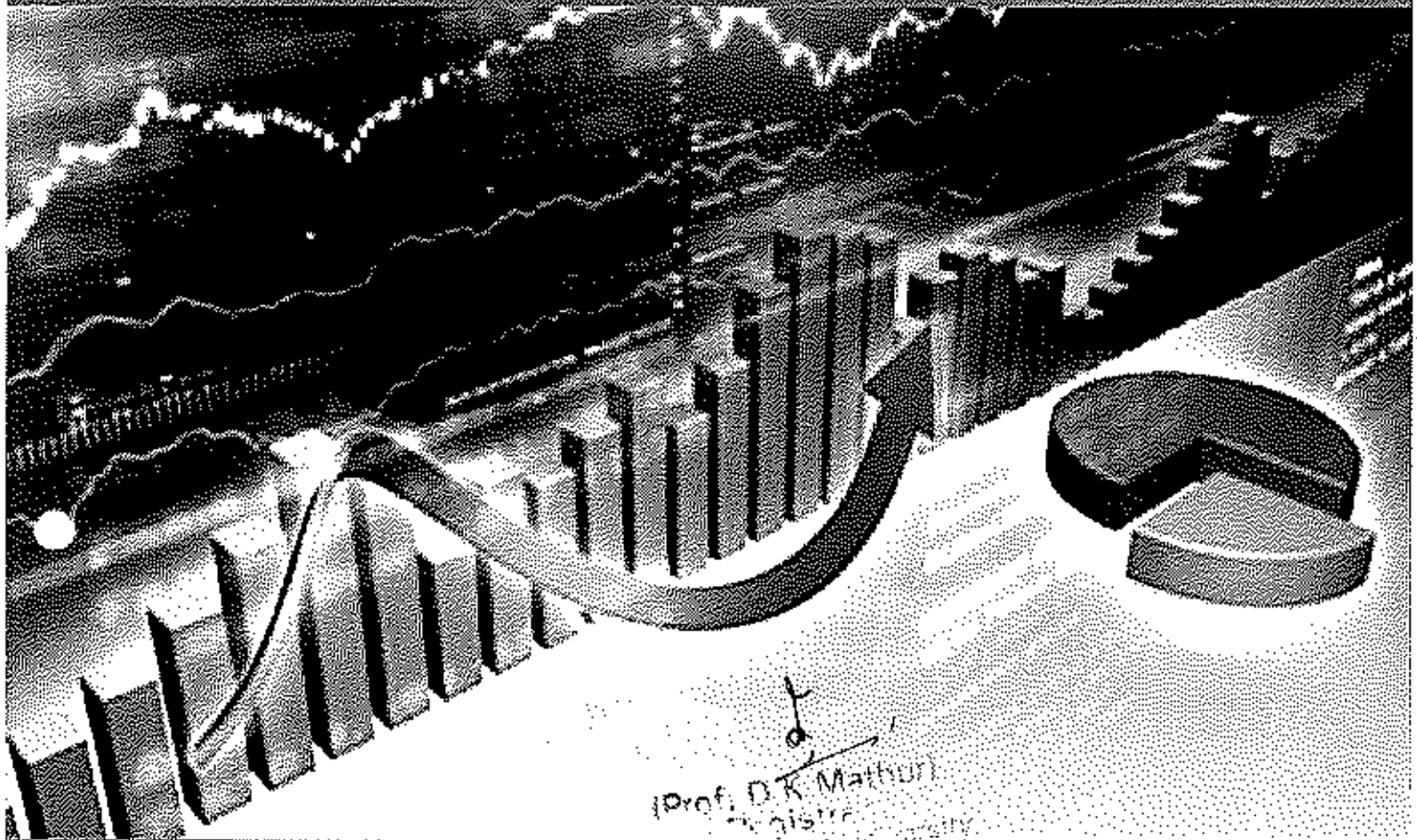


Five Days National Workshop on Data Science using R Programming

14th – 18th October, 2019



Prof. D.K. Mathur
Registrar

Jaipur National University
Jaipur



Jaipur National University,
Jagatpura Jaipur Rajasthan



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DEPARTMENT OF COMPUTER ENGINEERING

REPORT on FIVE DAY TRAINING PROGRAMME ON DATA SCIENCE USING R

Date: Oct 19, 2019

Five Day Training Programme on Introduction to DATA Science using R was successfully conducted under the National Institute of Technical Teachers Training & Research Chandigarh at Jaipur National University, Jaipur in ICT Mode on **Oct 14-18 2019**. This training programme was registered and attended by total 27 faculty members of different Departments. The day wise details of the topics covered during this programme are given below.

Resource Person of the Workshop:

Er. Shano Solanki- Asst. Professor NITTTR Chandigarh – (Workshop Coordinator)

Dr. Shiwani Bali, LalBahadurShastri Institute of Management

Dr. Gaurav Kumar, Magma Consultancy Pvt. Ltd.

Remote Center Organizer at Local center Jaipur National University, Jaipur:

Chief Organizer:

Dr. Harvir Singh – Director

Faculty Coordinator:

Mr. VikasVerma- Asst. Professor School of Engineering & Technology

Mr. Surendra Kumar Saini - Asst. Professor School of Engineering & Technology

Mr. Jameel Qureshi- Asst. Professor School of Computer & System Sciences


(Prof. D K Mathur)
Registrar
Jaipur National University
Jaipur

Department of Computer Science and Engineering, NITTTR, Chandigarh
Time Table for ICT Course on Data Science using R from 14-18 Oct 2019 (ICT-37)

Course Coordinator: En. Shashu Sahaiddi, Asst. Prof., CSE (SS)
 Dr. Sitwani Bala, Lal Bahadur Shastri Institute of Management, (SB)
 Dr. Chander Kumar, Kanya Consistency and Pvt Ltd (GN)

Day	9:30 - 11:30 am	11:00 - 11:15 am	11:30 am - 1:00 pm	1:00 pm - 2:00 pm	2:00 pm - 4:00 pm	3:45 pm - 4:00 pm	4:00 pm - 5:15 pm
14.10.2019 (Monday)	Inauguration and Registration	11:00 - 11:15 am	Introduction to R Programming and its Installation	1:00 pm - 2:00 pm	Introduction to Data Structures: Vectors and Matrices	3:45 pm - 4:00 pm	Practice
15.10.2019 (Tuesday)	(TP/Apply) Data Structures: Arrays, Lists and Practice		Introduction to Data Science, Importing Datasets, Data Frames, Reshaping and Transformations of Data	1:00 pm - 2:00 pm	Missing Value Treatment and Imputation in R, Outlier Detection	3:45 pm - 4:00 pm	Practice (SS)
16.10.2019 (Wednesday)	(SS) Descriptive Statistics - Measures of Central Tendency		Hypothesis Testing / Inferential Statistics, Correlation, (SB)	1:00 pm - 2:00 pm	Predictive Analysis using R - Linear Regression, Logistic Regression	3:45 pm - 4:00 pm	Practice (SS)
17.10.2019 (Thursday)	R for Machine Learning Based upon Classification: Decision Tree and Random Forest		R for Machine Learning Based upon Clustering	1:00 pm - 2:00 pm	Graphical Analysis using R	3:45 pm - 4:00 pm	Practice (GN)
18.10.2019 (Friday)	(GN) Big Data Toolboxes and Packages: BigMemory, Data Reduction Packages and Interpretation (GN)		R for Social Media Mining and Sentiment Analysis (GN)	1:00 pm - 2:00 pm	Feedback and Evaluation (SS)	3:45 pm - 4:00 pm	Practice (GN)

Course Coordinator: **Shashu Sahaiddi**

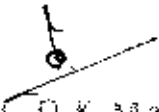
Technical Assistant: **Mr. Sanjeet Thwarti: 09388099732**

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Course Content of Short Term Courses

Operational Plan No.	ICT-37
Name of the Course	Data Science using R
Objectives of Course	<ul style="list-style-type: none"> ➤ 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 pre-processing of data
Course Content	<ul style="list-style-type: none"> ➤ Introduction to R and its installation ➤ Basic commands of R using R Console and R Studio ➤ Data structures in R ➤ Descriptive Statistics: Measure of Central Tendency and Measure of Dispersion ➤ Binomial, Poisson and Normal Distribution, Chi-square Test, ANOVA and CoVariance ➤ Graphical analysis using R ➤ Analyzing real streaming data in R and sentiment analysis ➤ Machine Learning and Predictive Analytics using R
Name of Course Coordinator with E-mail ID & Contact Number	<ul style="list-style-type: none"> • Shano Solanki s_solanki_2000@yahoo.com, 0172-2759696

In the last, we, on the behalf of Department of Computer Engineering, want to thank to **Dr. Harvir Singh, Director, School of Engg. & Tech** to provide us such a great opportunity which enhanced our knowledge on Data Science and its key concepts. We also Thank to staff members who helped us to make this programme successful.


 Dr. Harvir Singh
 Director
 School of Engineering & Technology
 JSSR
 JSSR

Glimpses of the Workshop




(Prof. D K Mathur)
Registrar
Jaipur National University
Jaipur



Jaipur National University, Jaipur
School of Computer & Systems Sciences
Report on Workshop/Seminar

Title of workshop : Five Day Training Programme on Introduction to
DATA Science using R

Date(s): Oct 14 -18 2019

Resource Person(s) :

Er. Shano Solanki

Asst. Professor NITTTR Chandigarh – (Workshop Coordinator)

B.Sc.(Computer Science) from Kurukshetra University, Kurukshetra

Research Interests

Social Network Analysis, Advance Algorithms, Machine Learning and Data Mining, Recommender Systems.

Dr. Shiwani Bali

LalBahadurShastri Institute of Management

Professor at Jaipuria Institute of Management, Noida

Delhi,

Dr. Gaurav Kumar

Magma Consultancy Pvt. Ltd.


(Prof. D K Mathur)
Registrar
Jaipur National University
Jaipur