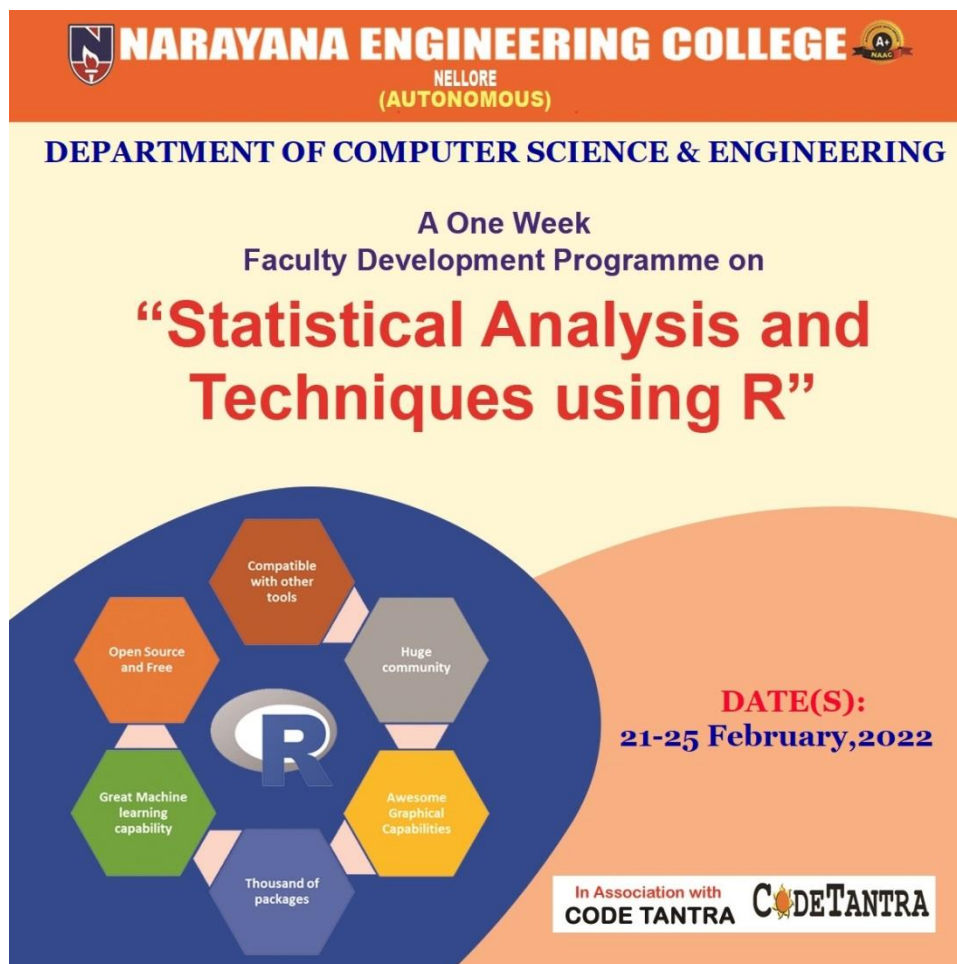


Department: CSE | Date: 21th to 25th February, 2022

**A One-Week Faculty Development Programme on
"Statistical Analysis and Techniques using R"
in Association with CodeTantra"**

A One Week Faculty Development Programme on **"Statistical Analysis and Techniques using R"** was organized by the Department of Computer Science & Technology from **21th to 25th February, 2022**. A total of 43 participants were participated in the FDP from different Institutions. The FDP aimed to provide opportunities to faculty members to enrich their teaching skills using Statistical Analysis and Techniques using R in their Academics & Research work.

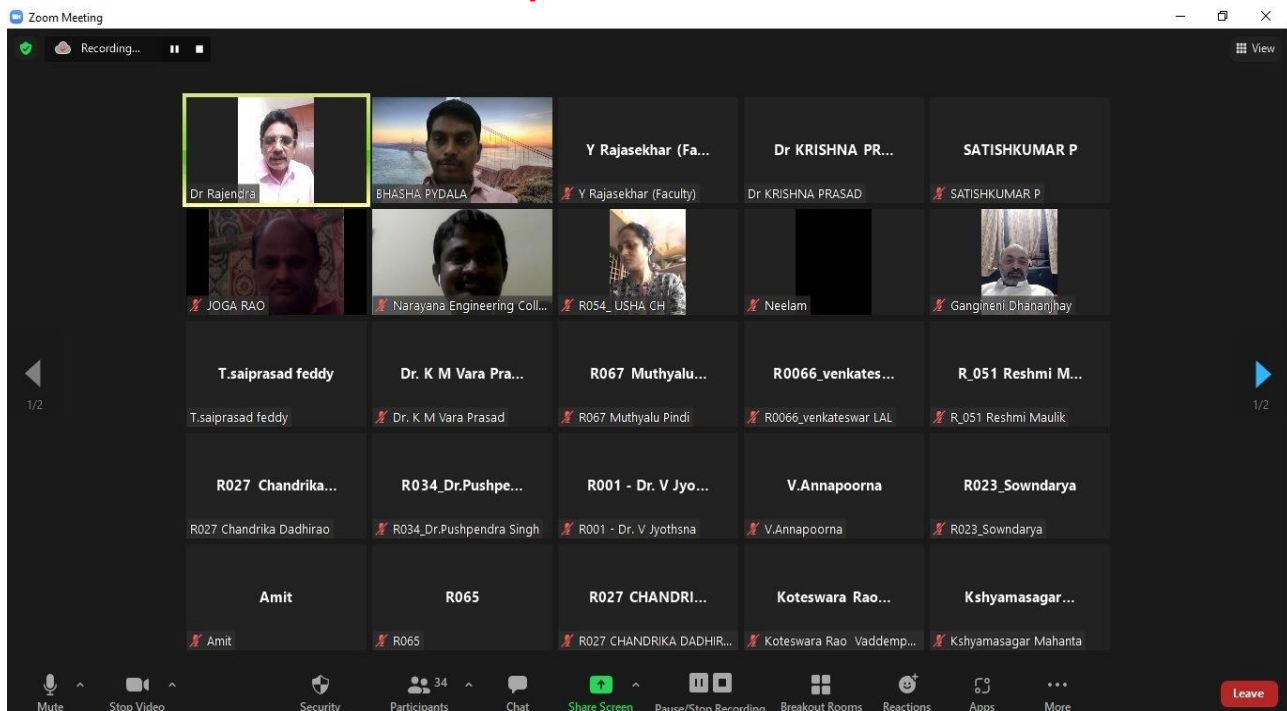


The poster features the Narayana Engineering College logo and name at the top, followed by 'NELLORE (AUTONOMOUS)'. Below this is the department name 'DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING'. The main title 'A One Week Faculty Development Programme on "Statistical Analysis and Techniques using R"' is prominently displayed. A central graphic shows the R logo surrounded by seven hexagons listing its features: 'Compatible with other tools', 'Huge community', 'Awesome Graphical Capabilities', 'Thousand of packages', 'Great Machine learning capability', 'Open Source and Free', and 'Compatible with other tools'. To the right, the dates 'DATE(S): 21-25 February, 2022' are listed. At the bottom right, it says 'In Association with CODE TANTRA' with the CodeTantra logo.

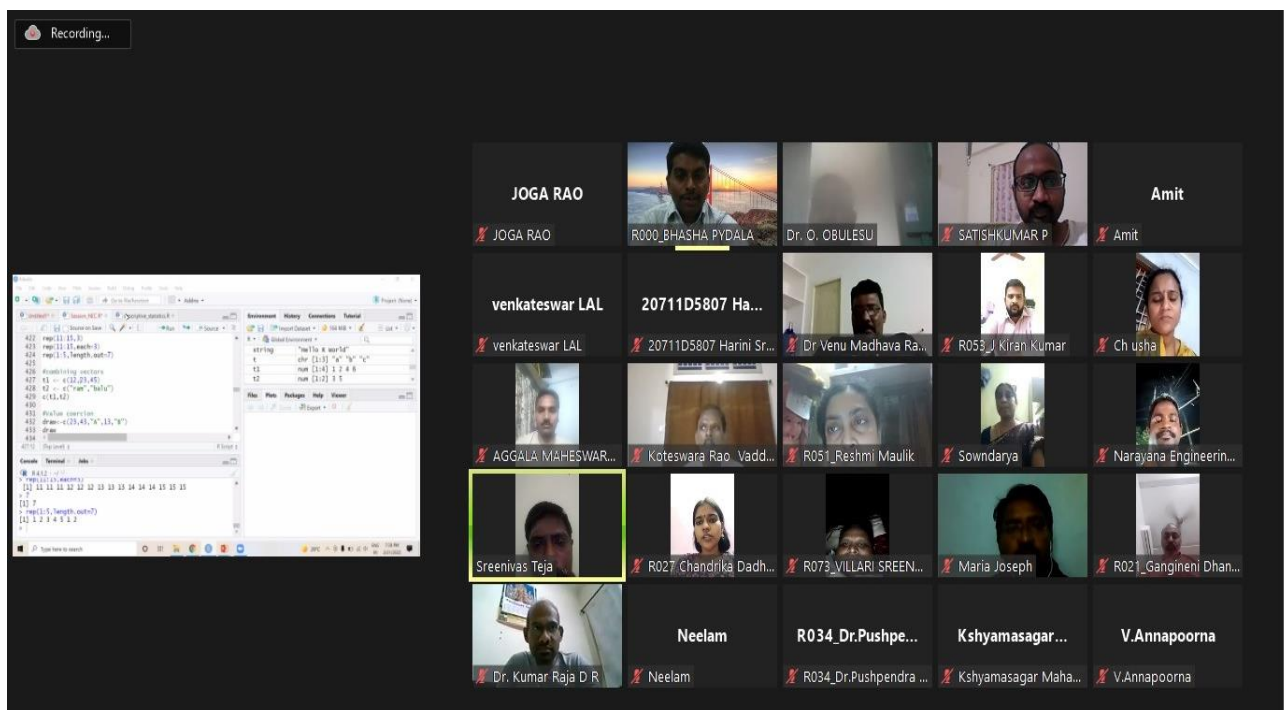
Dr. C. Rajendrai, Convener of FDP welcomed all the dignitaries and participants. In the welcome speech, he highlighted the objectives of the faculty development program. He said that, if members of faculty want to develop themselves and their students, then attending such faculty development programs would enhance their skills of teaching concepts effectively through Statistical Analysis and Techniques using R will enhance quality of institution as whole.



Day-1:21-02-2022



Dr. C. Rajendrai, Convener of FDP welcomed all the dignitaries and participants.



Dr. O. Obulesu, Associate Professor, GNITS(for Women), Hyderabad delivered a lecture on Introduction to R Programming, Objects in R and Probability methods.



Day-2:22-02-2022

Types of Analytics

Information Hindsight

Diagnostic Analytics

Predictive Analytics

Prescriptive Analytics

Optimization

Foresight

Gartner

Participants: JOGA RAO, BHASHA PYDALA, R054_USHA CH, Dr KRISHNA PRASAD, Dr. K M Vara Pra..., SATISHKUMAR P, 20711D5812S.sa..., R_051 Reshmi M..., Dr. K M Vara Prasad, SATISHKUMAR P, 20711D5812S.sahaja, R_051 Reshmi Maulik, R034_Dr.Pushpe..., Narayana Engin..., Gangineni Dhan..., G.V.Ramana Red..., R034_Dr.Pushpendra ..., Narayana Engineerin..., Gangineni Dhananjhay, G.V.Ramana Reddy, R067 Muthyalu..., V.Annapoorna, R023_Sowndarya, R032_SARITHA, R067 Muthyalu Pindi, V.Annapoorna, R023_Sowndarya, R032_SARITHA, R073_VILLARI S..., Amit, R065, R027_CHANDRI..., R073_VILLARI SREEN..., Amit, R065, R027_CHANDRIKA DA...

Dr. A. V. Krishna Prasad, Professor of IT, Maturi Venkata Subba Rao (MVSR) Engineering College, Hyderabad has delivered a lecture on Descriptive statistical analysis and Regression Models with case study.

Day-3:23-02-2022

Results for the advertising data

	Coefficient	Std. Error	t-statistic	p-value
Intercept	7.0325	0.4578	15.36	< 0.0001
TV	0.0475	0.0027	17.67	< 0.0001

Participants: Dr. Gangineni Dhananjhay, BHASHA PYDALA, Reshmi Maulik, Dr. K M Vara Prasad, Dr. Rajendra, R027 Chandrika..., KIRAN KUMAR..., R027 Chandrika Dadh..., KIRAN KUMAR POLU, R054_USHA CH, R073_VILLARI SREEN..., R053_U Kiran Kumar, Y Rajasekhar (Faculty), Jyothibabu A, Narayana Engineerin..., Neelam, T.sai prasad feddy, R034_Dr.Pushpe..., R067 Muthyalu..., V.Annapoorna, D SUJITHA, R065 sandhya, R034_Dr.Pushpendra ..., R067 Muthyalu Pindi, V.Annapoorna, D SUJITHA, R065 sandhya, Kshyamasagar..., Harini Sri Teja.P, Koteswara Rao..., Prasannavenkat..., Prasanna MCA, Kshyamasagar Maha..., Harini Sri Teja.P, Koteswara Rao Vadd..., Prasannavenkatesan T, Prasanna MCA

Dr. G. Dhananjhay, Dean-MBA Narayana Engineering College (Autonomous), Nellore has delivered a lecture on Hypothesis Testing, Graphical Analysis with case study.



Day-4:24-02-2022

Multiple Linear Regression

```
1. attach(mtcars)
2. mpg_mlr<-lm(mpg~wt+displ)
3. mpg_mlr
Output:
Call: lm(formula = mpg ~ wt + displ)

Coefficients:
(Intercept)      wt      displ
  34.96055      -3.35083      -0.01772
```

Y Rajasekhar (Fa... Y Rajasekhar (Faculty)	BHASHA PYDALA	18711A0512(51... 18711A0512(512) Vis...	R054_ USHA CH R054_ USHA CH	Dr. O. OBULESU Dr. O. OBULESU
JOGA RAO	Narayana Engin...	R067 Muthyalu... R067 Muthyalu Pindi	R034_Dr.Pushpe... R034_Dr.Pushpendra ...	Reshmi Maulik
R027 Chandrika... R027 Chandrika Dadh...	Kshyamasagar ... Kshyamasagar Maha...	Neelam	Jyothsna V Jyothsna V	Dr. K M Vara Pra... Dr. K M Vara Prasad
krishna prasad	R032_SARITHA	venu golajapu	Amit	R073_VILLARI S... R073_VILLARI SREEN...
Maria Joseph	Narayana Live C...	R023_Sowndarya	Koteswara Rao... Koteswara Rao Vadd...	Sai Prasad Redd... Sai Prasad Reddy.T

Dr. O. Obulesu, Associate Professor, GNITS(for Women), Hyderabad delivered a lecture on Regression Models, Stages of Regression, Comparison of SLR and MLR, case study on Diabetic Statistics, Linear and Non-Linear Regression, Logistic Regression, Linear Discriminating Analysis.

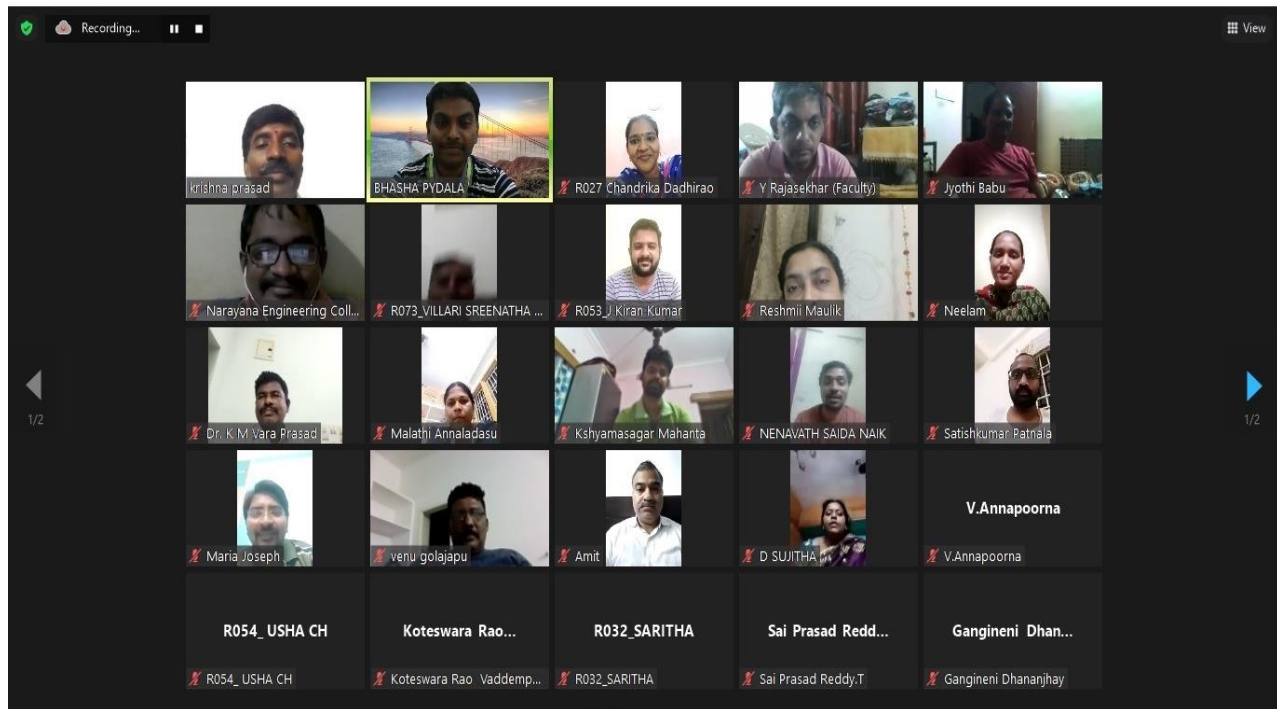
Day-5:25-02-2022

Testing Covariance

```
32 type='h',
33 col='red',
34 main='Testing Covariance')#to plot the testing of
35
36
37 R33)calculate standard deviation of marks obtained by s
38 s_marks<-studmark$marks #store the marks from studmark
39 sd(s_marks) #standard deviation of marks of student
40
41
37.1 (Top Level)
R Script
> plot(cov(StudyHours,Marks),
+ type='h',
+ col='red',
+ main='Testing Covariance')#to plot the testing of cov
+ ariance
```

krishna prasad	BHASHA PYDALA	R027 Chandrika... R027 Chandrika Dadh...
Y Rajasekhar (Fa... Y Rajasekhar (Faculty)	R034_Dr.Pushpe... R034_Dr.Pushpendra ...	Narayana Engin... Narayana Engineerin...
V.Annapoorna	Reshmii Maulik	R054_ USHA CH R054_ USHA CH
Kshyamasagar ... Kshyamasagar Maha...	venu golajapu	Amit
Jyothi Babu	D SUJITHA	Koteswara Rao... Koteswara Rao Vadd...

Dr. A. V. Krishna Prasad, Professor of IT, MaturiVenkataSubba Rao (MVSR) Engineering College, Hyderabadhas delivered a lecture on Regression Testing Models with case study.



FDP Participants

We are thankful to all participants, speakers, who have attended this FDP enthusiastically without them our FDP couldn't be successful. We are thankful to management of Narayana Engineering College (Autonomous) for sanctioning the amount to conduct this FDP. We extend our thanks to **Mr. P. Bhasha, FDP-Coordinator**, Teaching and Non Teaching Staff who helped us to make this event a grand success. The whole programme is conducted with the prior permission of the **Director Dr. A. V. S. Prasad, Principal Dr. G. Srinivasulu Reddy, Head of the Department Dr. C. Rajendra.**

HOD/CSE