# Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society

**LEAD TO ILLUMINATE**



# STATISTICS

## 2020-21

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# PHYSICAL SCIENCES

## STATISTICS

REPORTS

**ACADEMIC YEAR 2020-21**
**Regular Activities 2020-2021**

| S. No | Date | Programme | Venue | Number of Participants |
|-------|------|-----------|-------|------------------------|
| 1 | 13th-15th June | Attended 3-Day Webinar | Aurora's Degree & PG College | Faculty: N. Dhwani T. Manjusha |
| 2 | 29th June | Attended National e-Quiz | G. Pulla Reddy Degree & PG College (Online) | Faculty: N. Dhwani T. Manjusha |
| 3 | 29th June | Conducted Image Recognition Competition | LFDC | 32 |
| 4 | 16th July | Conducted Career development Programme | Online | 27 |
| 5 | 28TH AUG | Guest Lecture | online webinar | 60 |
| 6 | 24th & 25th Sep | Two Day National Webinar | online webinar | 45 |
| 7 | 12th DEC | Intra Collegiate competition | Online mode | 9 |
| 8 | 9th JAN | Attended Online Outreach Programme for college teachers | Online | T. Manjusha |
| 9 | 30th JAN | Guest Lecture | Online mode | 35 |
| 10 | 1st -6th March | One Week National FDP in Collaboration with NIT, Warangal | Online webinar | 100 |
| 11 | 19th April | Inter-collegiate workshop | Online | 70 |

# ATTENDED 3 - DAY WEBINAR

Name of the Program : Attended 3 - Day Webinar
Date : 13th - 15th June
Venue : Aurora's Degree & PG College
No. of Participants 02
Time : 03:00 pm to 04: 00 pm

The three-day webinar was organized by Aurora's Degree & PG College, Chikkadpally, Hyderabad from 13th to 15th JUNE 2020. The aim of the webinar was to explore the integration of data science techniques in Learning Management Systems (LMS) to enhance educational outcomes and institutional effectiveness. The webinar provided participants with insights into leveraging data science in LMS platforms, covering topics such as data collection, analysis, implementation, and future trends. It emphasized the importance of data-driven approaches in enhancing teaching and learning experiences, optimizing institutional processes, and shaping the future of educational technology. Throughout the webinar, knowledgeable speakers imparted valuable insights and clarified participants' doubts, contributing to the aim ofexploring data science integration in Learning Management Systems (LMS) for enhanced educational outcomes and institutional effectiveness.
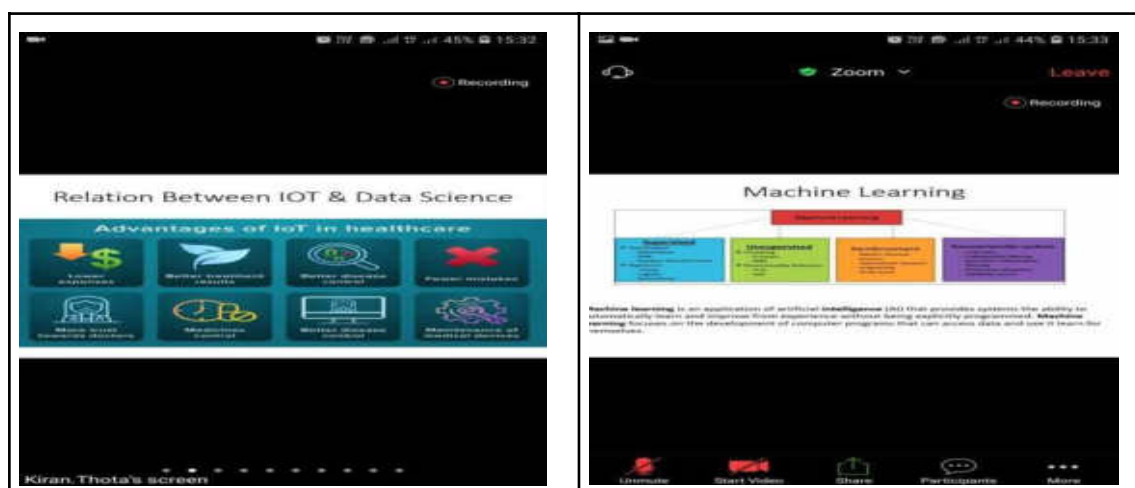


The Participants are engaged in an online session on machine learning techniques led by Mr. T. Kiran.

# ATTENDED NATIONAL E-QUIZ

Name of the Program        :  Attended National E- Quiz
Date                       : 28th to 30th  June 2020
Venue                      : Online
No. of Participants        : 02
Time                       : 3 days

Mrs. Dhwani and Mrs. Manjusha, faculty members from the Department of Statistics, enthusiastically participated in the National level E-Quiz on "Statistics," organized by the Department of Statistics at G. Pulla Reddy Degree & PG College, Mehdipatnam, from June 28th to 30th, 2020. Their active involvement earned them an Appreciation Certificate for their commendable performance
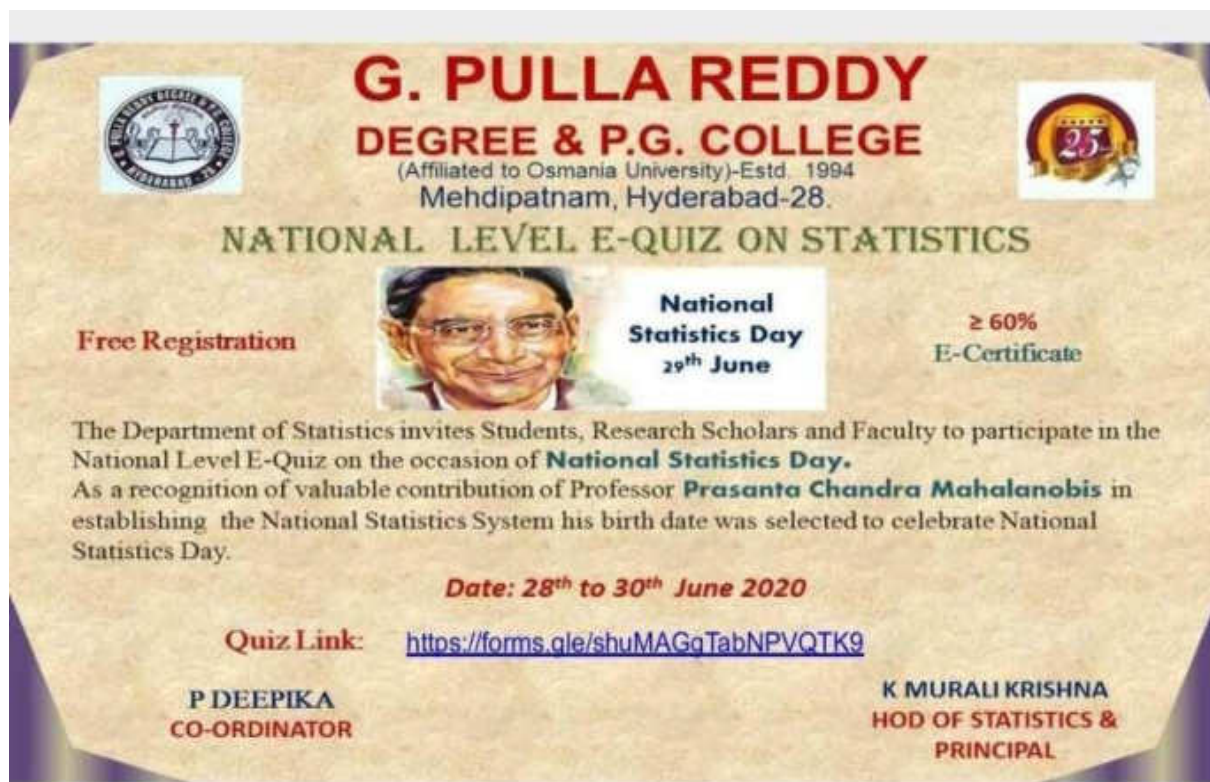


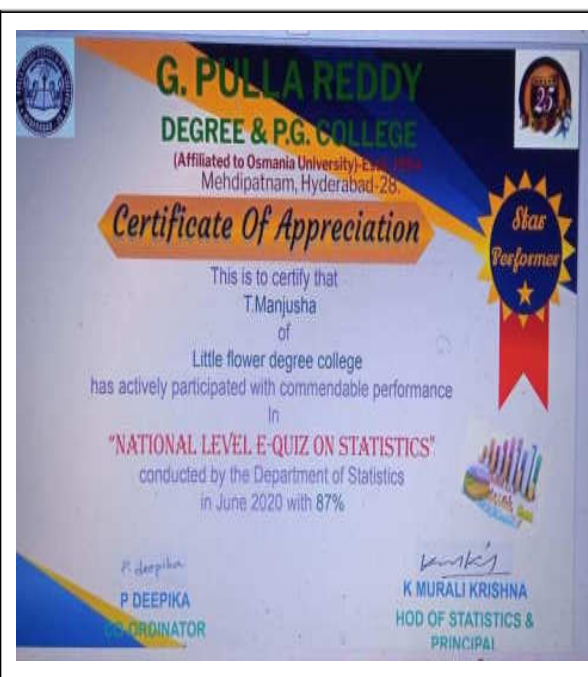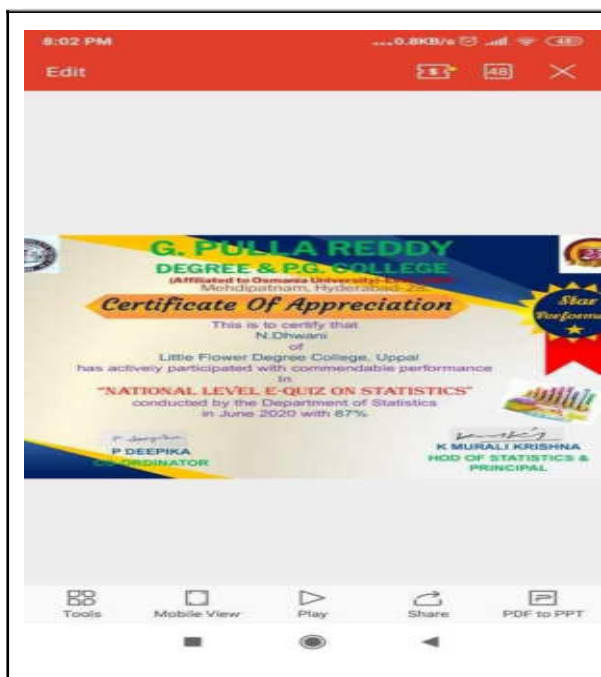Brochure of Online National e-Quiz on Statistics conducted by G. Pulla ReddyDegree & PG College, Hyderabad

Ms. Dhwani and Ms. Manjusha were awarded certificates with distinction fortheir outstanding performance in the national quiz competition.

# CONDUCTED IMAGE RECOGNITION COMPETITION

| | |
|---|---|
| Name of the Program | : Conducted Image Recognition Competition |
| Date | : 29th June 2020 |
| Venue | : Online |
| No. of Participants | 32 |
| Time | : 1 day |

The Department of Statistics organized an image recognition competition as part of the celebrations for the 14th National Statistics Day. This event aimed to engage BSc students in practical applications of statistical concepts and foster interest in data analysis and visualization. The aim of the competition is to celebrate the 14th National Statistics Day by engaging students in a challenging and educational competition. By engaging students in hands-on learning experiences, the competition inspired interest and enthusiasm for statistics and its relevance in today's data-driven world.



Students who participated in the National Statistics Day celebration were awarded both merit and participation certificates in recognition of their involvement and contributions to the event.

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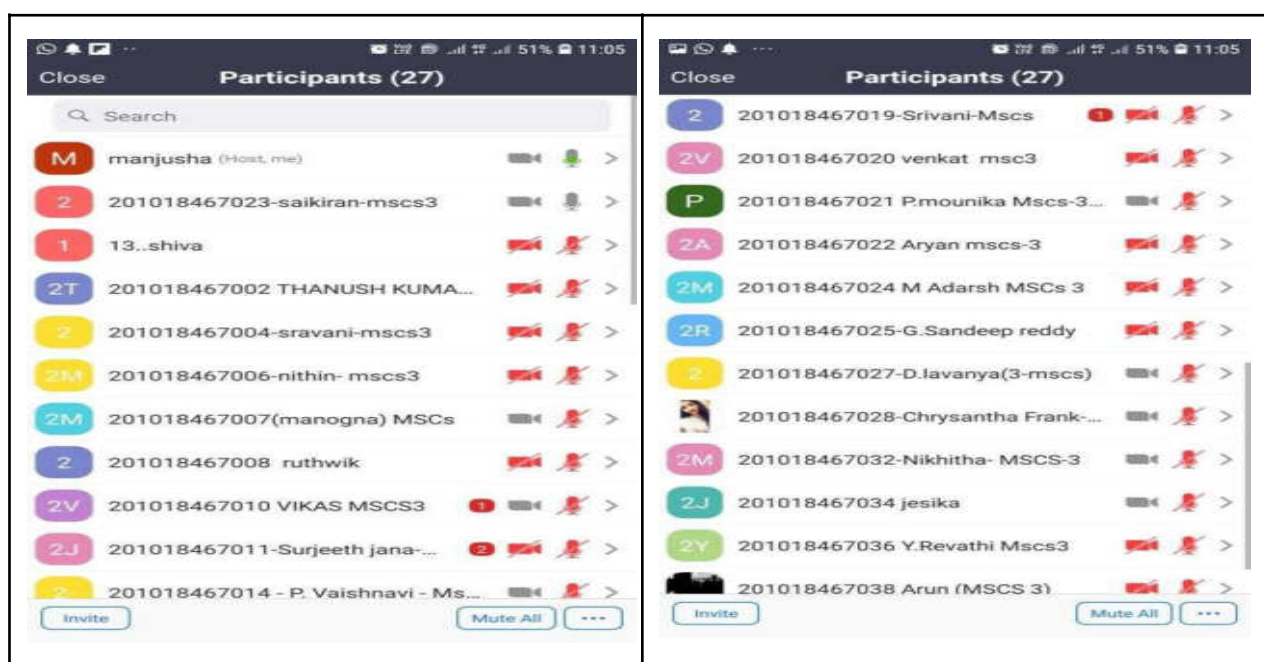
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## CONDUCTED CAREER DEVELOPMENT PROGRAM

Name of the Program : Conducted Career development programme

Date : 16th July 2020

Venue : Online

No. of Participants 27

Time : 10:30 AM

The Department of Statistics organized a comprehensive Career Development Program for BSc (MSc)-III students. This initiative aimed to equip students with the necessary skills and insights to excel in their current roles, navigate organizational structures effectively, gain self-awareness regarding their strengths and development areas, and prepare for career advancement opportunities. The program aimed to assist students in enhancing their skills relevant to their academic field and future career paths. This includes technical skills in statistics, data analysis, and related areas, as well as soft skills such as communication, teamwork, and problem-solving.



Ms. Manjusha is providing valuable insights to the students regarding different career opportunities.

# CONDUCTED GUEST LECTURE

| | |
|---|---|
| Name of the Program | : Guest lecture on Logistic Regression |
| Date | : 28th Aug 2020 |
| Venue | : Online |
| No. of Participants | 27 |
| Time | : 10:30 AM |

The Department of Statistics organized a guest lecture on "Logistic Regression" conducted by Srikala, a distinguished faculty member from St. Ann's College, Mehdipatnam, Hyderabad. The lecture aimed to provide students with a comprehensive understanding of logistic regression and its applications in statistical modeling. The primary objective of the guest lecture was to enhance students' understanding of logistic regression as a statistical model. Students were introduced to the concept of logistic regression and its significance in modeling binary outcomes.
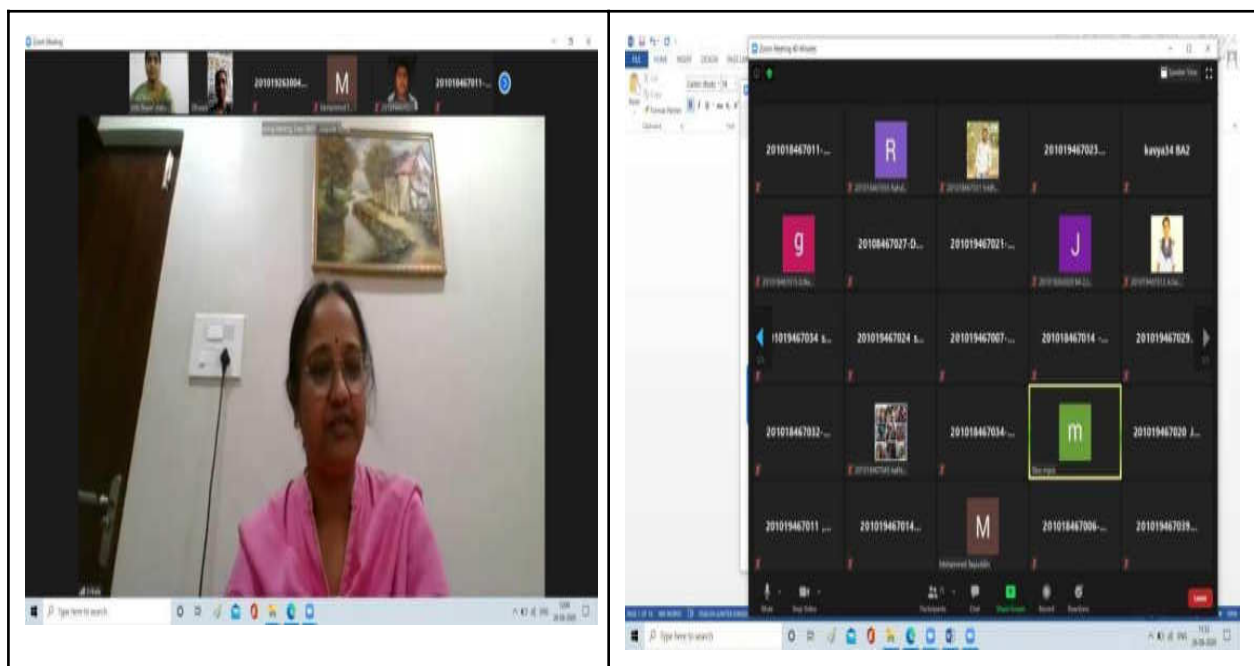


Ms. Srikala delivered a lecture to the students, focusing on the topic of logistic regression.

Ms. Srikala is addressing and resolving the doubts of the participants

# CONDUCTED TWO DAY NATIONAL WEBINAR

| | |
|---|---|
| Name of the Program | : Statistical Tools and Techniques |
| Date | : 24th & 25th SEP 2020 |
| Venue | : Online |
| No. of Participants | 45 |
| Time | : 1:00 to 4:30 pm |

The Department of Statistics organized a Two-Day National Webinar on "Statistical Tools and Techniques" aimed at familiarizing participants with essential research tools used in various studies. The webinar highlighted the importance of statistical methods in planning, designing, collecting data, analyzing, interpreting, and reporting research findings. The first day of the webinar focused on "Big Data Analysis using R,"led by Prof. B. Muni Swamy from Andhra University, Andhra Pradesh. Prof. Swamy discussed the significance of big data analysis and the role of R, a leading programming language in data science. The second day featured a session on "Optimization Techniques and its Applications," conducted by Dr. P. Kalpana from IIITDM, Kanchipuram, Tamil Nadu. Dr. Kalpana highlighted the relevance of optimization theory and methods in various engineering applications. Participants gained a better understanding of these concepts and their applications in real-worldscenarios.
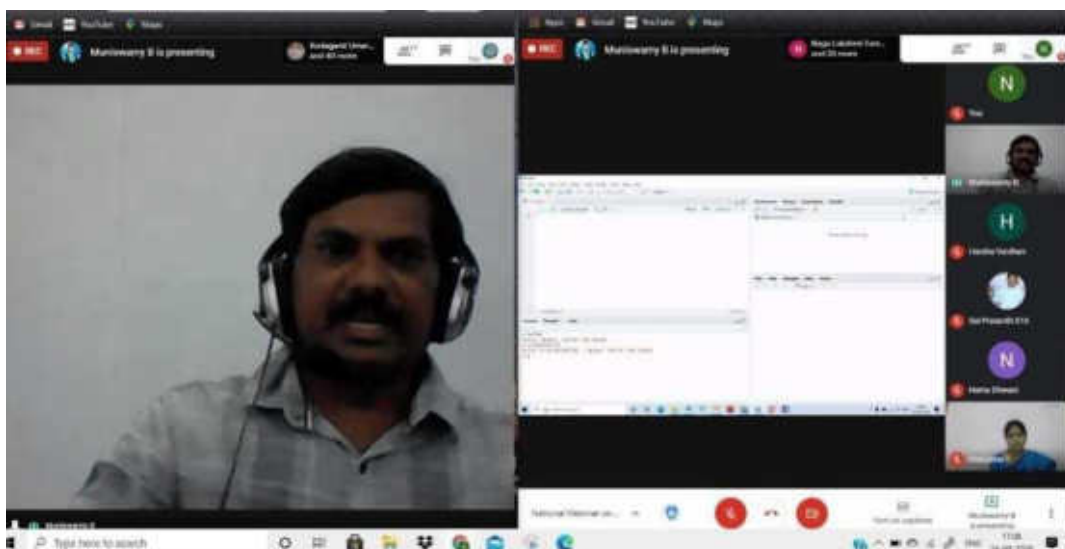


Prof. Swamy delivered the significance of big data analysis and the role of R
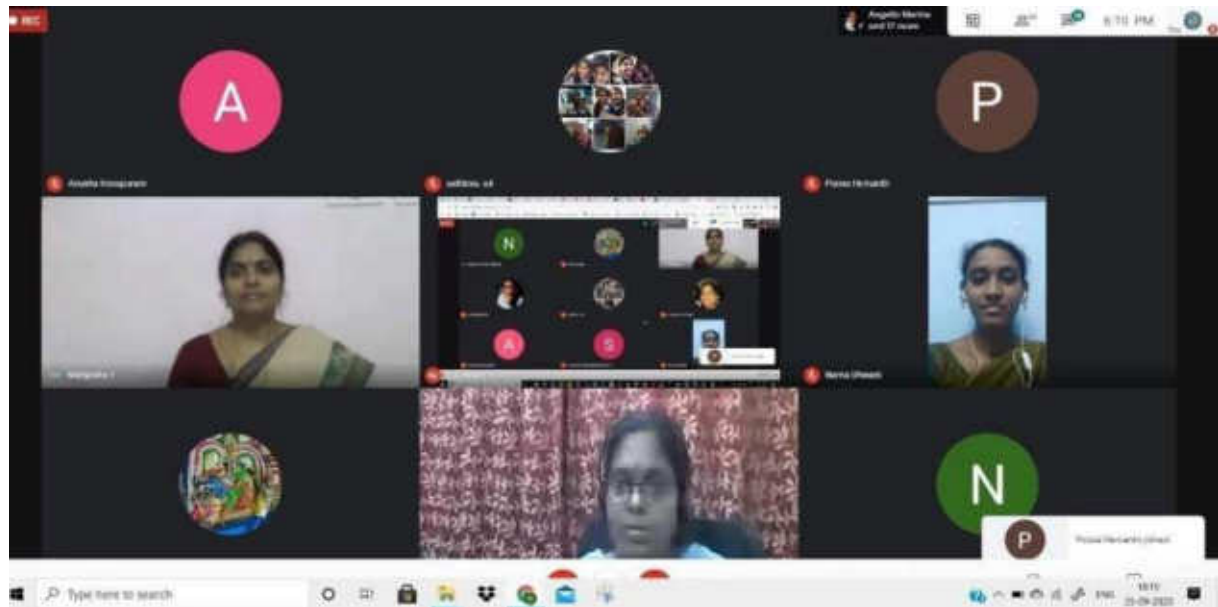
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Dr. Kalpana addressed the participants on the relevance of optimization theory and methods in various engineering applications.

# ATTENDED ONLINE OUTREACH PROGRAMME

Name of the Program            : Outreach Programme for College Teachers
Date                                      :  9th Feb 2021
Venue                                    : Online
No. of Participants                    01
Time                                       : 2:00 pm

 The Department of Mathematics & Statistics at Bhavan's Vivekananda College of Science & Commerce, Sainikpuri, Secunderabad, organized an online outreach program for college teachers. The program focused on research methodology, which entails the specific procedures and techniques used to identify, process, and analyse information about a particular topic. Speakers P. Rajini & Chandan Babu emphasized the importance of research methods and statistical analysis using spreadsheets with collected data. They provided insights into the significance of these methodologies in academic research and equipped participants with practical tools for data analysis.
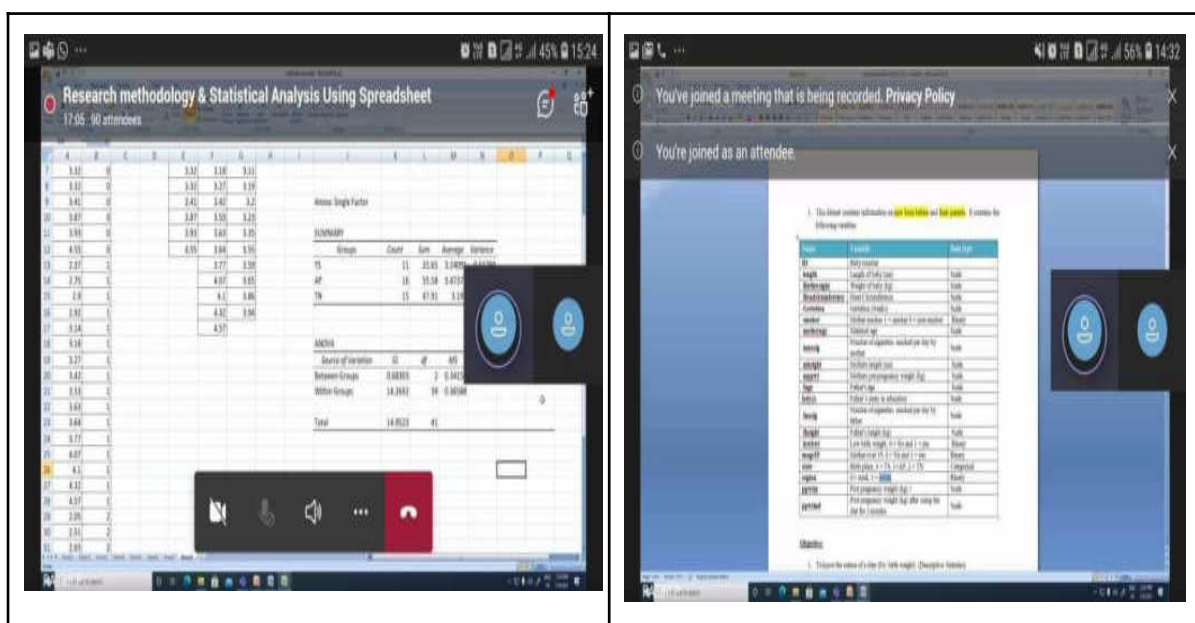


Ms. Rajini explain the tools and techniques of spreadsheet using real time datasets
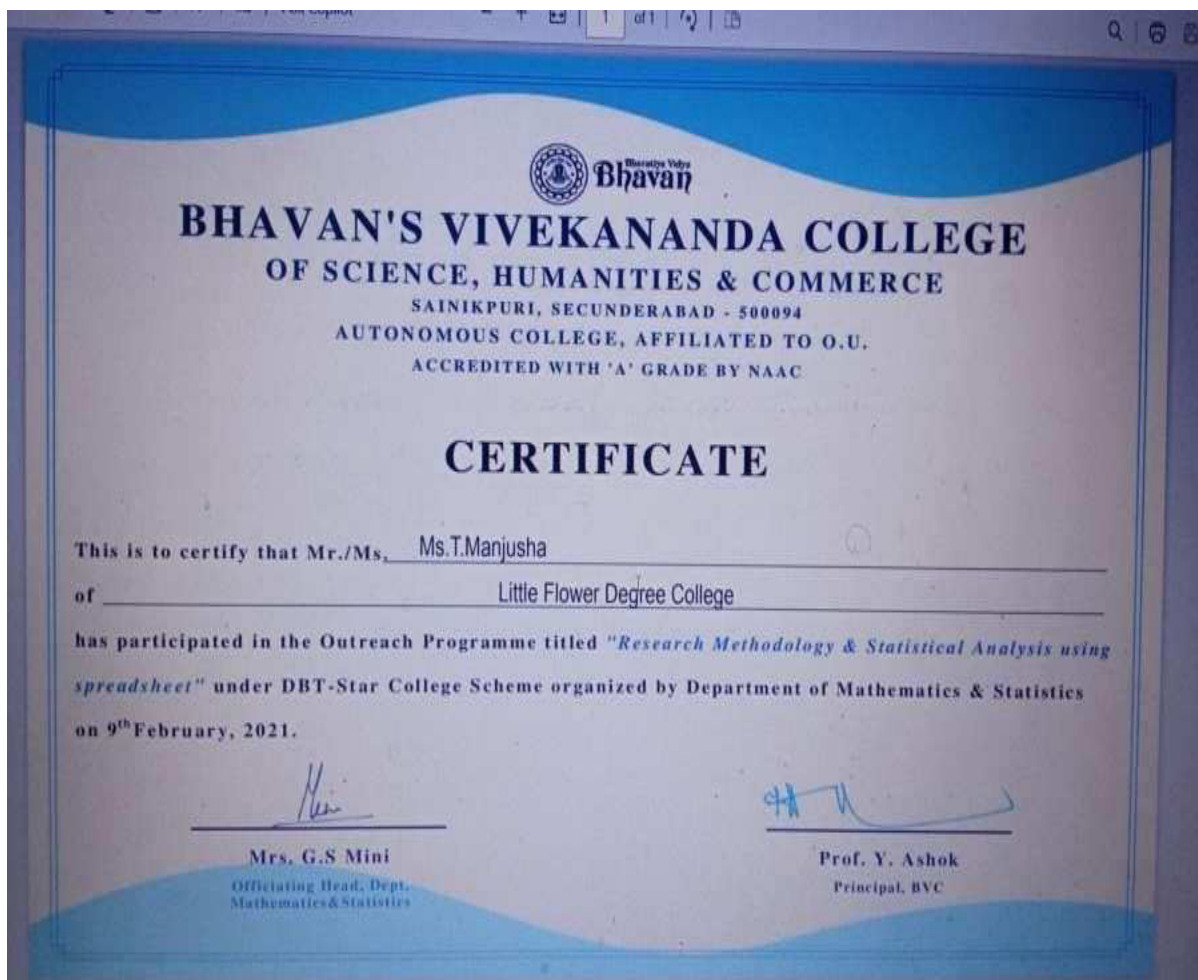
**BHAVAN'S VIVEKANANDA COLLEGE**

OF SCIENCE, HUMANITIES & COMMERCE

SAINIKPURI, SECUNDERABAD - 500094

AUTONOMOUS COLLEGE, AFFILIATED TO O.U.

ACCREDITED WITH 'A' GRADE BY NAAC

**CERTIFICATE**

This is to certify that Mr./Ms, Ms.T.Manjusha

of Little Flower Degree College

has participated in the Outreach Programme titled *"Research Methodology & Statistical Analysis using spreadsheet"* under DBT-Star College Scheme organized by Department of Mathematics & Statistics on 9th February, 2021.

Mrs. G.S Mini
Officiating Head, Dept.
Mathematics & Statistics

Prof. Y. Ashok
Principal, BVC

Ms. Manjusha, faculty, received participation certificate for the event outreachprogramme

# CONDUCTED GUEST LECTURE

Name of the Program : Guest lecture on Design of Questionnaire
Date : 30th Jan 2021
Venue : Online
No. of Participants 35
Time : 2:00 pm

The Department of Statistics hosted a guest lecture on "Design of Questionnaire" conducted by Dr. Lalitha Devi, a faculty member at Kasturba Gandhi Women's College, Hyderabad. The aim of the guest lecture was to familiarize students with the importance of designing effective questionnaires for collecting accurate and interpretable data in research studies. Dr. Devi initiated the session by elucidating the basics of questionnaire design, highlighting its significance as a convenient tool for collecting information from a large number of individuals within a specified timeframe. She emphasized that the careful design of a questionnaire is crucial to ensure the accuracy and interpretability of collected data, thereby facilitating generalizable results.
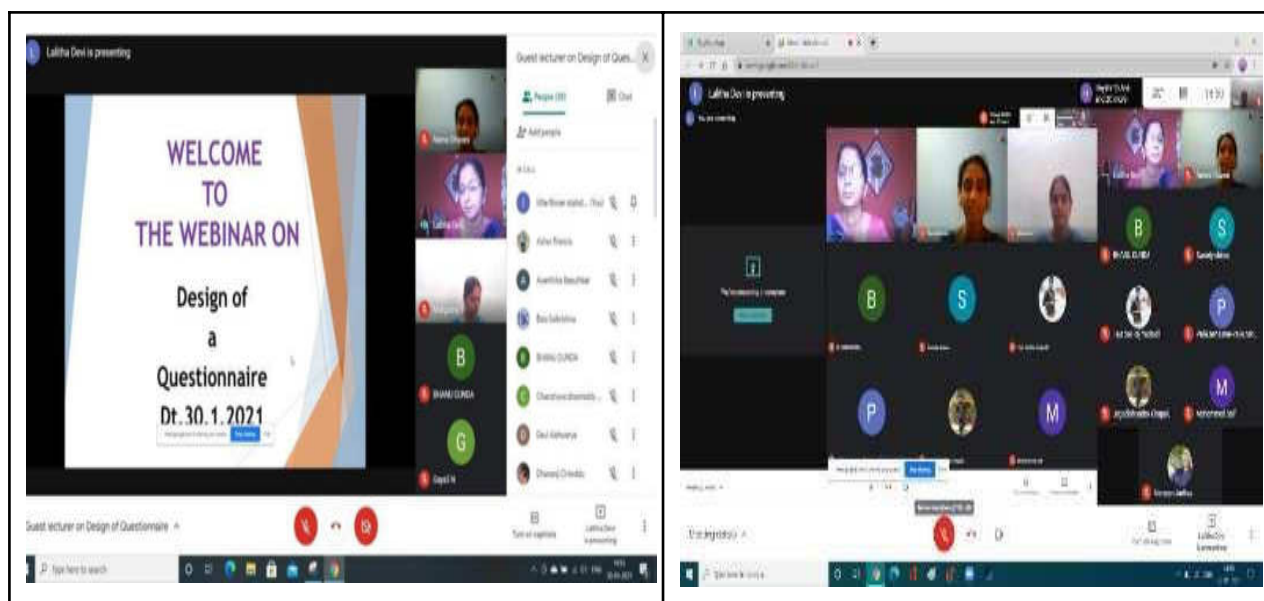


Dr. Lalitha Devi elaborated on the importance of questionnaire design, emphasizing its significance in research methodology.

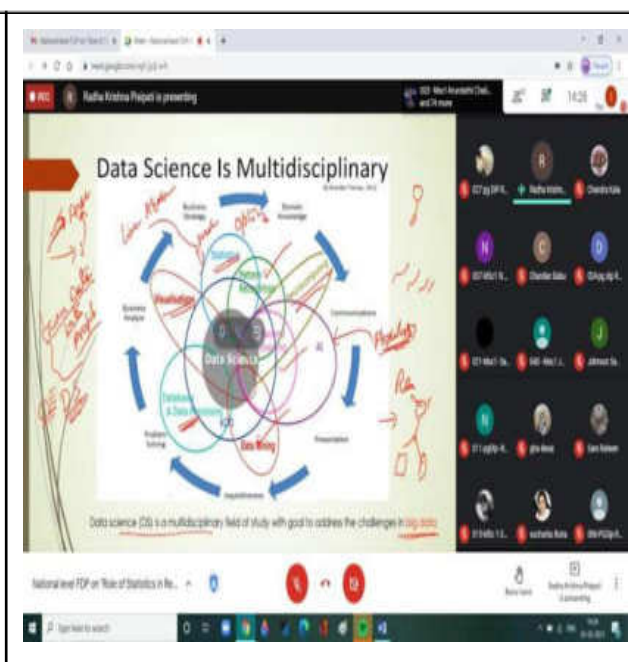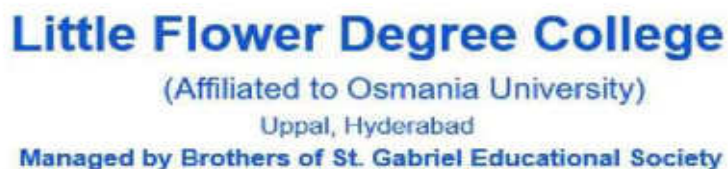# CONDUCTED ONE-WEEK NATIONAL FDP

Name of the Program            : Role of Statistics in Research Methodology
Date                           : 1st to 6th March 2021
Venue                          : Online
No. of Participants              100
Time                           : 2:00 to 3:00 pm

The Department of Statistics organized a one-week National Level Faculty Development Program (FDP) in collaboration with NIT, Warangal focusing on the "Role of Statistics in Research Methodology." The FDP aimed to enhance the performance of faculty members in education, research, and administration, while also augmenting organizational capacities and fostering a research-driven culture.

FDP Sessions Overview:

1.  Day 1: Prof. Samir Kumar Neogy from ISI, New Delhi, discussed the paradigm shift in research due to big data, emphasizing its implications and applications.
2.  Day 2: Prof. C. Jaya Lakshmi from Osmania University covered research methods, including qualitative and quantitative research, literature survey, research design, and sample selection.
3.  Day 3: Prof. P. Radha Krishna from NIT Warangal introduced participants to data science, emphasizing its interdisciplinary nature and importance in modern research.
4.  Day 4: Dr. Joseph Davidson from NIT Warangal discussed statistical modelling of manufacturing processes, focusing on the design of experiments and its applications.
5.  Day 5: Mr. Raman R K from LFDC, Uppal, introduced participants to Python in data science, covering basic concepts and libraries such as NumPy and pandas.
6.  Day 6: Dr. P. Muthu from NIT Warangal concluded the FDP with a session on analysis of variance (ANOVA), discussing its principles, techniques, and real-life applications. Participants provided positive feedback on the FDP, citing its practical knowledge, well-coordinated sessions, and the need for regular arrangements of such programs.

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Dr. Jayalaxmi, Prof. Osmania University and Dr. Radha Krishna, AssociateProfessor, NIT, Warangal provided insights to the participants on research methods and data science techniques during their address.
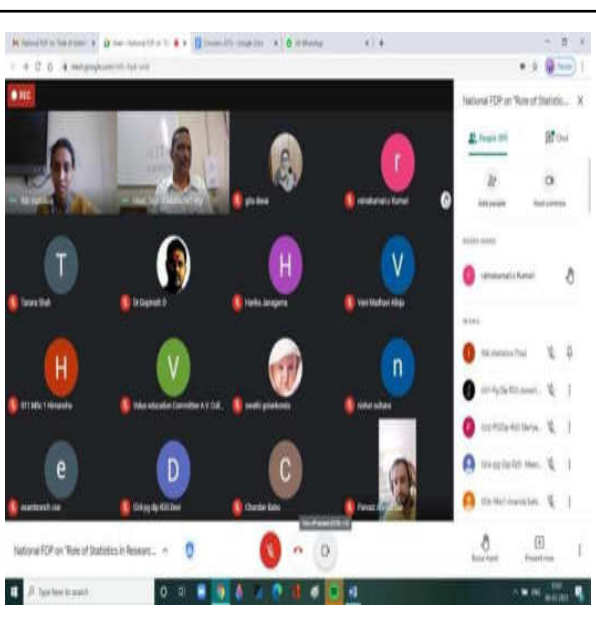


Mr. Raman, Assistant Professor at LFDC, and Dr. Muthu, Associate Professor at NIT Warangal, elucidated the concepts of Python in data science and analysis of variance during their presentation.
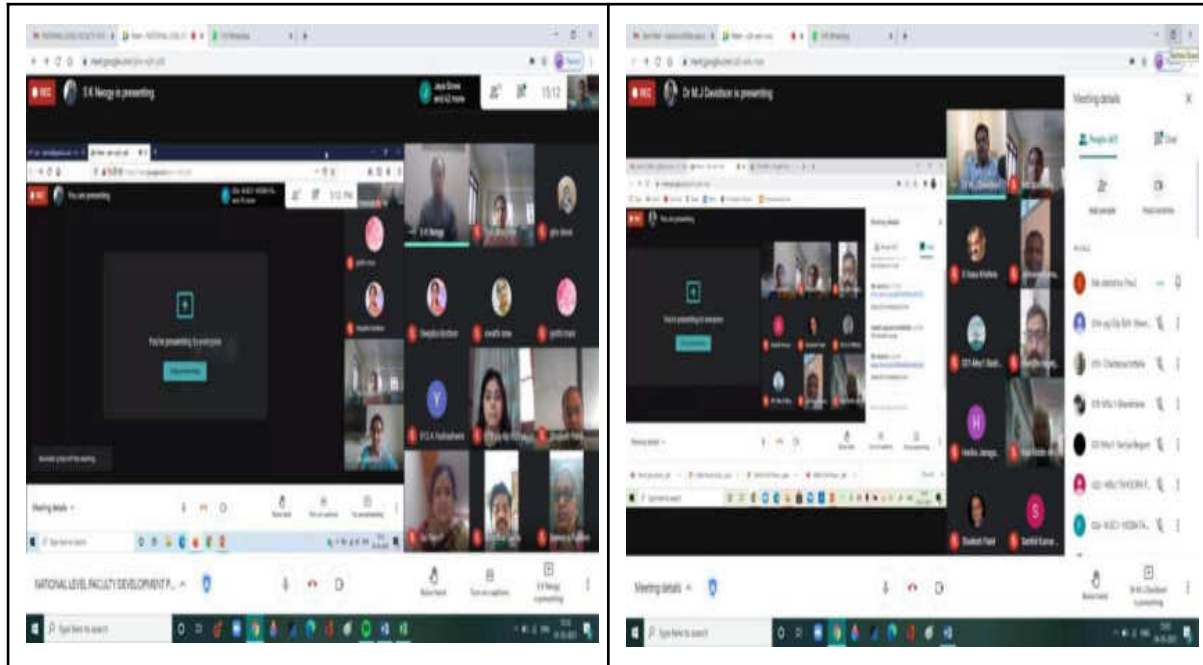
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Prof. Samir Kumar Neogy, Head of ISI, and Dr. Joseph Davidson from NIT Warangal provided valuable insights to the participants on the research paradigm shift and statistical modeling of manufacturing processes during their address.

# CONDUCTED INTER-COLLEGIATE WORKSHOP

Name of the Program : Data Analysis using spreadsheet
Date : 19th April 2021
Venue : Online
No. of Participants 70
Time : 02:00 - 03: 30 pm

The one-day inter-collegiate workshop organized by the Department of Statistics on 19th April 2021 at 2:00 pm aimed to provide students with practical insights into utilizing spreadsheet tools, particularly Microsoft Excel, for effective data analysis. The workshop focused on empowering participants to explore and interpret data through natural language queries and visual summaries. The workshop facilitated by Ms. P. Rajini, Assistant Professor at Bhavan's Vivekananda College Science & Commerce, Sainikpuri, Secunderabad, delivered an insightful session on the power of data analysis through spreadsheets. Participants gained practical knowledge and skills in utilizing Excel for effective data interpretation. Real-life examples provided context and demonstrated the applicability of spreadsheet tools in various fields.
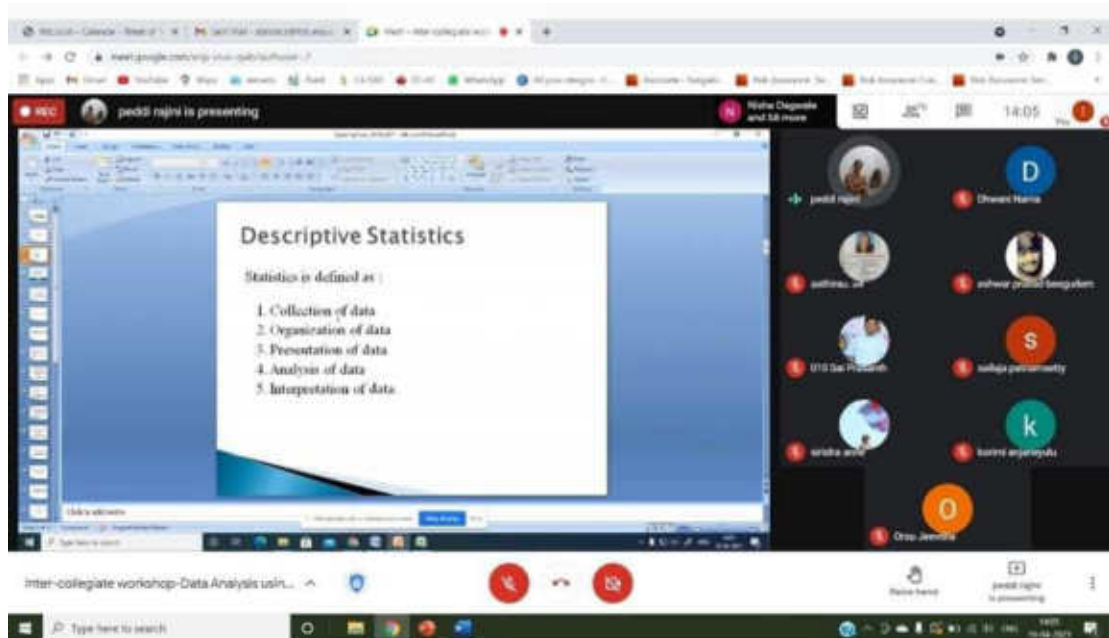
Ms. P. Rajini, Assistant Professor, delivered a lecture on spreadsheet tools



Ms. P. Rajini, Assistant Professor, delivered a lecture on spreadsheet tools utilizingreal-time datasets.