



# Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society

**LEAD TO ILLUMINATE**



**STATISTICS 2023-24**



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## PHYSICAL SCIENCES

### STATISTICS

#### REPORTS

**ACADEMIC YEAR 2023-2024**

**Regular Activities 2023-2024**

S No	Date	Programme	Venue	Number of Participants
1	25 <sup>th</sup> Sep 2023	Guest Lecture	LFDC	BSC (MSCs& MSDs)
2	1 <sup>st</sup> to 11 <sup>th</sup> Oct 2023	Guided NEP -orientation and sensitization	Online	Faculty: N. Dhvani, T. Manjusha
3	9 <sup>th</sup> Oct 2023	Inter-Collegiate competition-Crossword Puzzle	LFDC	BSC (MSCs, MSDs and MSC
4	10 <sup>th</sup> Oct 2023	Intra-Collegiate competition-Quantitative Insight Challenge	LFDC	BSC (MSCs, MSDs) and MSC
5	31 <sup>st</sup> Oct 2023	Model and Poster presentation	Physics lab	MSCS
6	23 <sup>rd</sup> to 25 <sup>th</sup> NOV	Presented paper at International Conference	Online	Faculty: T. Manjusha
7	22 <sup>nd</sup> , 23 <sup>rd</sup> and 27 <sup>th</sup> Dec 2023	3-day National workshop on advanced machine learning techniques-MOU	Online	Registered Participants
8	28 <sup>th</sup> Dec to 15 <sup>th</sup> Jan 2024	Project work	P01, Stats Lab	MSC-II
9	16 <sup>th</sup> Feb 2024	National Webinar-MOU	Online	Registered Participants
10	16 <sup>th</sup> and 17 <sup>th</sup> Feb 2024	Presented paper at International Conference	Online	Manjusha and MSC-II
11	28 <sup>th</sup> FEB 2024	Field Trip	Survey of India	MSCs & MSDs



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### Guest Lecture

Name of the Program : Guest Lecture  
Date : 25th Sep 2023  
Venue : LFDC  
No. of Participants : 47  
Time : 10:30 AM-12:30 PM

The faculty of Statistics conducted a seminar on “Statistics- Importance, Applications & Career Opportunities” on 25 September, 2023. The event was conducted in LFDC at 10.40 am. The Guest speaker for the programme was Dr. D. Sumalatha, Assistant Professor, Telangana Mahila Vishwavidyalaya, Koti, Hyderabad. Dr. Sumalatha’s guest lecture on statistics, attended by 40 BSc students on September 25<sup>th</sup>, provided a valuable exploration of the subject importance, applications, and career opportunities. The objective of the guest lecture is to highlight the crucial role of statistics in various fields, showcasing its practical applications and emphasizing the diverse career opportunities it offers.



Ms. Jayanthi Reddy felicitating the speaker  
Career opportunities



Dr. Sumalatha delivering a lecture on





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## NEP - Orientation and Sensitization Programme

Name of the Program: NEP - Orientation and Sensitization Programme

Date: : 3rd Oct to 11th Oct 2023

Venue: : Online No. of Participants : 02

Time : 02:00 PM - 04:00 PM

Faculty of statistics attended UGC-training programme for teachers known as Malaviya Mission Teacher Training center in collaboration with Osmania University organized an 8-day NEP-orientation and sensitization programme for 3<sup>rd</sup> to 11<sup>th</sup> Oct 2023. The aim of this program was to improve the quality of teaching and empower faculty members through training, induction, refresher and short-term programs and to ensure their continuous professional development. Faculty Ms. Dhvani and Manjusha attended this programme. Each day two of sessions by highly distinguished resource persons, was organized in tune with 2 sessions each day with NEP in the afternoon.



Speaker addressing the participants during the speakersession



Queries session is going between and participants



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## Intra-Collegiate Competition (UG)

Name of the Program : Cross Word Puzzle

Date : 9<sup>th</sup> Oct 2023

Venue : LFDC

No. of Participants : 55

Time : 02:00-03:00 PM

The faculty of statistics conducted an Intra-Collegiate competition on cross word puzzle on 9<sup>th</sup> October 2023 for graduate students. Students of BSC (MSCs) have participated actively in this event. The aim and objective of conducting intra collegiate cross word puzzle competition is to foster intellectual engagement, promote critical thinking, and create a fun, competitive atmosphere that encourages students to enhance their vocabulary and problem- solving skills and showcase their cognitive abilities through solving crossword puzzles.



Students participating in the CROSSWORD PUZZLE competition



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### Intra Collegiate Competition (PG)

Name of the Program : Quantitative Insight Challenge

Date : 10<sup>th</sup> Oct 2023

Venue : LFDC

No. of Participants : 12

Time : 02:00-03:00 PM

The faculty of statistics conducted intra-collegiate competition on quantitative insight challenge on 10<sup>th</sup> October 2023 for post-graduate students. 10 students of MSc & BSc (MSCs) have participated actively in this event. The aim and objective of conducting intra college competition quantitative insight challenge is to Provides a platform for students to enhance their quantitative skills, problem-solving abilities, and analytical thinking. Practical experience gained through competitions prepares students for the demands they might encounter in their future careers in quantitative disciplines.



Students working on Basic Concepts of Statistics





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### Model and Poster Presentation

Name of the Programme : Model and Poster presentation

Date: : 31st Oct 2023

Venue : Physics Lab, LFDC

No. of Participants : MSCs & MSDs

The faculty of statistics conducted a model and poster presentation on 31<sup>st</sup> October 2023 at physics lab, second floor, Little Flower Degree & PG College on the occasion of World Statistics Day. Different models, games and posters presented by BSc (MSCs) students. The **aim** of conducting a model and poster presentation on world statistics day is to raise awareness about the importance of statistics in decision-making and policy formulation. Around 11 students of BSc (MSCs)-II have presented models and posters. Five teams were participated actively in the event. Students showcased the models on attributes, regression, curve fitting and role of statistics in data mining and path analysis.



Students Presenting their models and posters on Statistical methods



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### Presented Paper at ICCSAI

Name of the Program : 2<sup>nd</sup> International Conference  
Date : 23<sup>rd</sup> to 25<sup>th</sup> Nov 2023  
Venue : Online  
No. of Participants: : 01  
Time : 09:00AM to 10:00AM

The 2nd International Conference on Communication, Security and Artificial Intelligence (ICCSAI) was held at Galgotias University from 23rd to 25th November, 2023. It emerged as a pivotal nexus of innovation and collaboration. Organised by the school of computing science and Engineering, The Conference drew together researchers, academicians, and industry professionals globally. On the third day, Ms. Manjusha, Faculty of Statistics presented a paper in the conference. Paper title is, “Analysing the State of Nutrition and Factors influencing occurrence within children between 0-59 months in India: key findings from the NFHS-5 Data” On 25th November, 2023 at 9:30 AM. The study emphasises that maternal educational level and ethnicity are pivotal determinants influencing children’s nutritional status concerning stunting, underweight and wasting.



Chief Guest Prof. S. N. Singh, addressing the conference on the occasion of Inaugural of 2nd International conference





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**Stunting Model Accuracy:** The logistic regression model has a 93.0% overall precision compared to the approaches used to forecast stunting. The decision tree model comes in second with a total precision of 92.4%. The **random forest model** comes out with the best accuracy of **94.6%**, exceeding both. As a result, it can be said that the random forest model is the most accurate model for determining if a children is stunted among three.

**Underweight Model Accuracy:** Upon estimating the underweight prediction model, the logistic regression model achieves an overall accuracy of 92.2%. The decision model in comparison has a somewhat better total accuracy of 94.2%. The **random forest model** stands out with the best accuracy of **95.7%**, outperforming both. This supports the finding that the random forest model is the most accurate model for determining if a children is underweight among three.

**Wasting Model Accuracy:** The logistic regression model has an overall precision of 92.5%, the decision tree model has an overall precision of 92.4%, and the **random forest model** has an overall precision of **94.5%**. This means that the random forest model is the most accurate model for forecasting whether a child is wasted.

The video call window on the right shows participants: Dr. Swarnika Singh, Sumedha Gupta, Isha sharma, and Dr. Swapnita Sri...

Ms. Manjusha, presenting the paper in the conference of the title “Analysing the State of Nutrition and Factors influencing occurrence within children between 0-59 months in India: key findings from the NFHS-5 Data”



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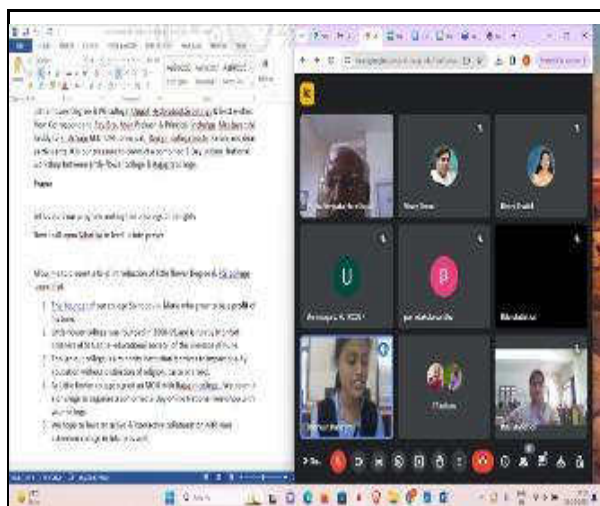
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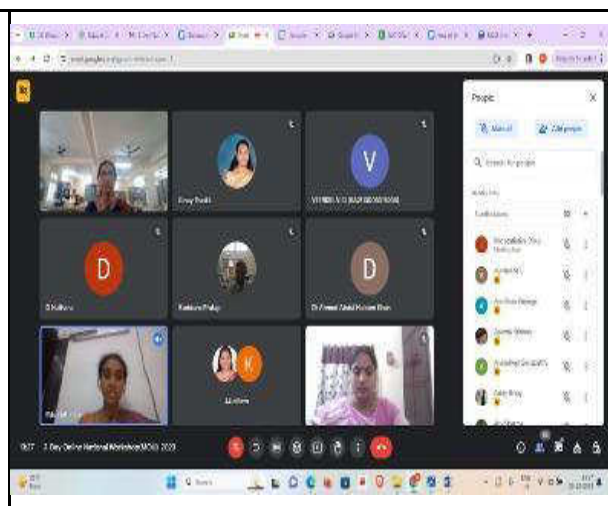
## 3-Day Online National workshop

Name of the Program	: 3-day national workshop on Advanced machine Learning techniques
Date	: 22nd to 23rd Dec 2023
Venue	: Online
No. of Participants	: 125
Time	: 02:00 PM - 04:00 PM

The faculty of Statistics, Little Flower Degree and PG College collaborated with Raja Giri College to host a 3-day online national workshop titled "Advanced Machine Learning Techniques." The workshop, held on December 22nd, 23rd, and 27th, 2023, under a Memorandum of Understanding (MoU), witnessed the participation of approximately **250** registered individuals. Impressively, **125** participants actively engaged in the event over the three-day period. On the inaugural day of the three-day workshop, the focus was on **"Multivariate Analysis"**. **Prof. Hara Gopal** (retd), Osmania University, the esteemed speaker, delivered an insightful lecture covering various aspects of multivariate analysis. On the second day of the workshop, the spotlight shifted to **"Python-based machine learning: Regression and Classification techniques"**. **Dr. Rajini**, Assistant Professor at Bhavan's Vivekananda College, Hyderabad, took the stage as the distinguished speaker. Concluding the workshop on its third day, **Dr. Bindu Krishnan** took the stage as the speaker, shedding light on the intricate realm of **"Neural Networks"**. Her lecture encompassed crucial concepts, ranging from the Perceptron Learning Algorithm to Multi-layer Perceptron Learning Back-Propagation Algorithms and Hidden Markov Models.



Prof. V.V. Hara Gopal addressing the participants on multivariate analysis



Dr. Rajini addressing the participants during the queries session



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### Collaborative Project work

Name of the Programme : Project work on Machine Learning Techniques

Date : 28<sup>th</sup> Dec to 15<sup>th</sup> Jan

Venue : P01 Stats Lab

No. of Participants 1

Time : 10:00 to 12:00 pm

The faculty of statistics conducted a Project work in collaboration with Inside Factz Training institute from 28<sup>th</sup> Dec to 15<sup>th</sup> Jan for post-graduate students. Total 12 students of MSc (Statistics)-II have participated actively in this event. The aim of undertaking a project in machine learning within higher studies is to apply theoretical knowledge, apply theoretical concepts learned in coursework to real-world problems or datasets, thereby gaining practical experience. In the session where speakers explain concepts like Random Forest, Decision Trees, and Support Vector Machines (SVM) implementation using Python with real-time datasets.



Dr. Rajini delivering lecture on research methods



Mr. Raju explaining the concepts of machine learning





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### A Collaborative Webinar

Name of the Programme : Career Prospects in Statistics

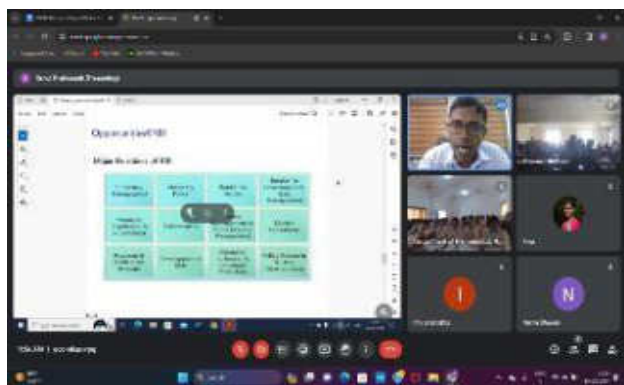
Date : 16<sup>th</sup> FEB

Venue : Online

No. of Participants : 90

Time : 10.30 AM

The faculty of Statistics collaborated with Little Flower Degree College and Mercy college to host a collaborative webinar titled "Career Prospects in Statistics." The webinar held on 16/02/2024 at 10:30am - 12:30 pm in P21 seminar hall, LFDC, under a Memorandum of Understanding (MoU), witnessed the participation of 90 individuals. The primary objective of hosting a collaborative webinar on career prospects in statistics is to provide attendees with valuable insights and information about the diverse opportunities available in the field of statistics and data analysis. Mr. Rahul, assistant advisor, shares key insights into the career prospects in statistics based on his extensive experience in academia and industry.



Online lecture on career prospects by Mr. T. Rahul



Students listening to the lecture of career opportunities



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### Presented Paper at International Conference

Name of the Program : Two-Day International Conference  
Date : 16<sup>th</sup> and 17<sup>th</sup> Feb  
Venue : Online  
No. of Participants: : 08  
Time : 2:00 to 4:00 pm

The two-Day International Conference on Modern Statistics for Recent Developments in Data Science Techniques from 16th-17th Feb ,2024, Hybrid mode at Department of Statistics, Sri Venkateswara University, Tirupati. Faculty T. Manjusha along with final MSC students attended and presented a paper in a two-day international conference. The event brought together professionals, researchers, and experts from various fields to explore and discuss the latest advancements in statistics and data science techniques. The presented papers in the conference were:

1. "Assessing Anaemia prevalence among women: A comprehensive analysis using multivariate approaches with NFHS-5 dataset" by Ms. Manjusha
2. "Utilizing advanced machine algorithms for accurate prediction of you tube video counts" by Anusha, Charan and Niharika
3. "Innovative machine learning for diabetic risk assessment" by Pranathi and Nireesha
4. "Proactive machine learning based- customer retention strategies" by Dhanush and Saritha.



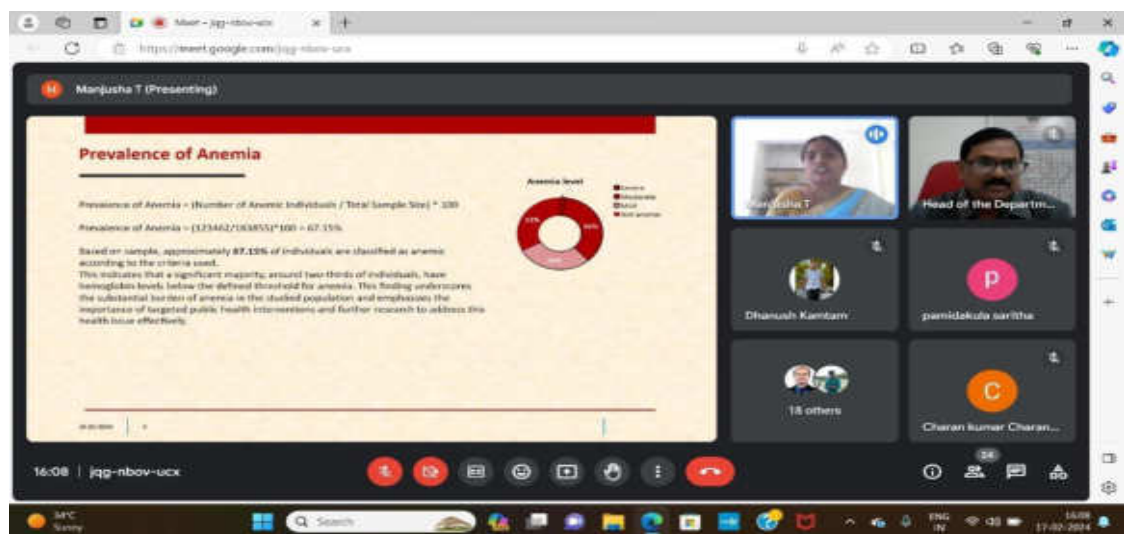
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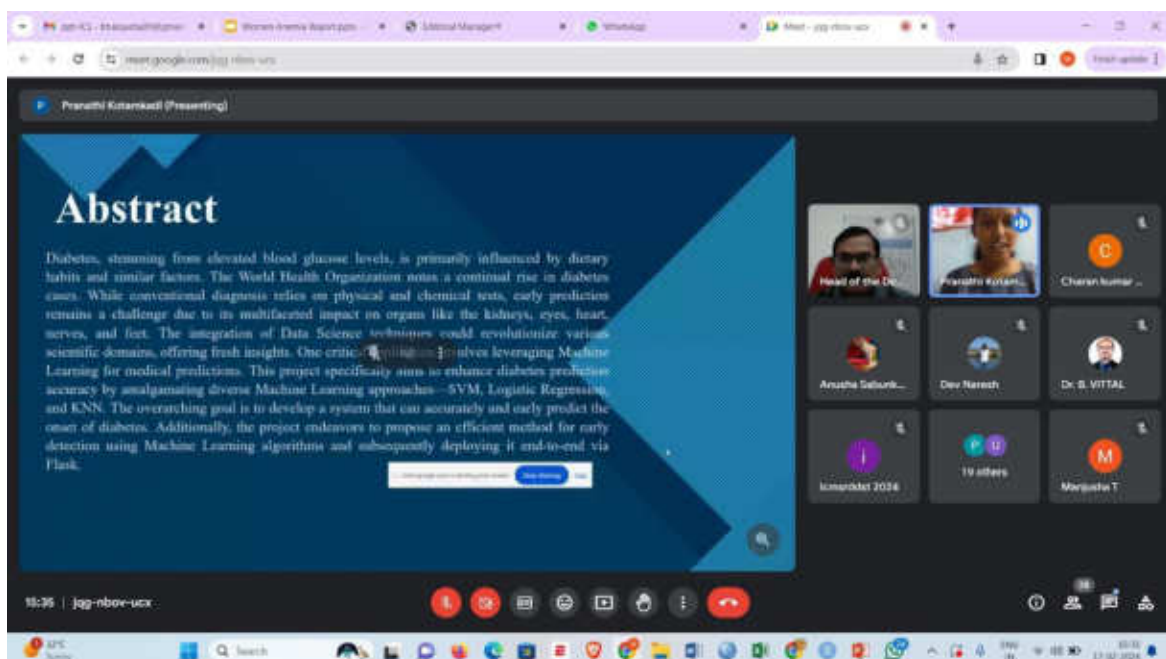
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Certificates were distributed to presenters, acknowledging their role in making the event a success.



Ms. Manjusha, Faculty Department of Statistics presenting the paper at the International Conference organized by S.V. University on anemia prevalence, presided by Professor MuniSwamy of Andhra University



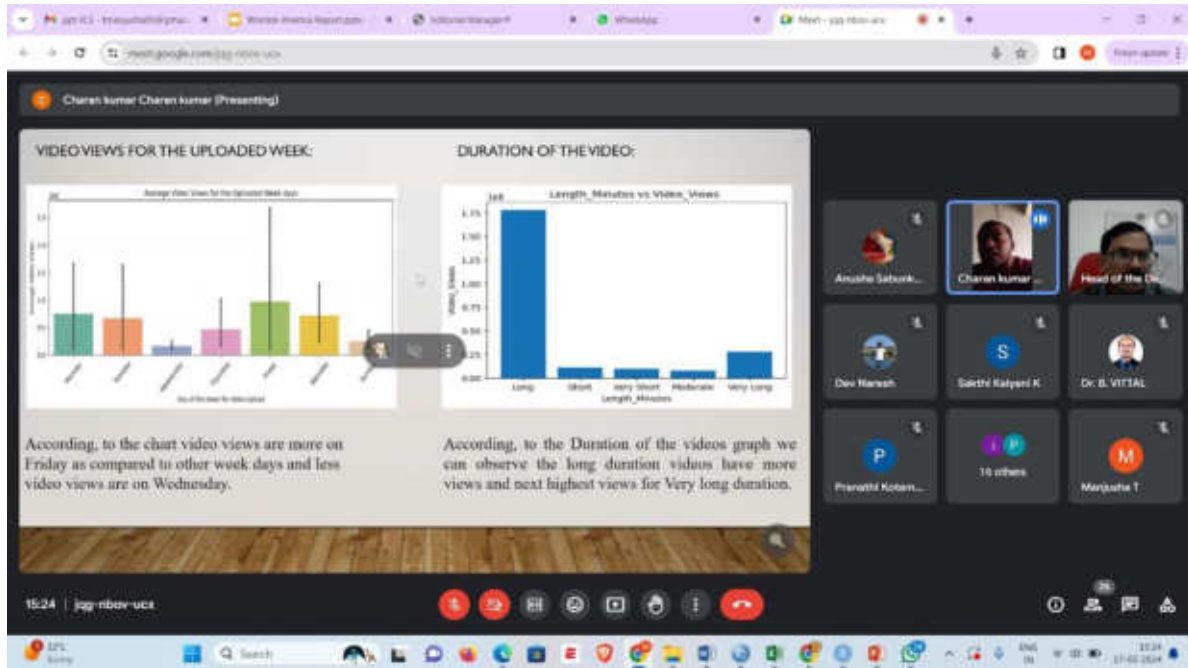
K. Pranathi of MSC-II presenting the paper at the International Conference organized by S.V. University on Diabetes risk assessment, presided by Professor Muni Swamy of Andhra University



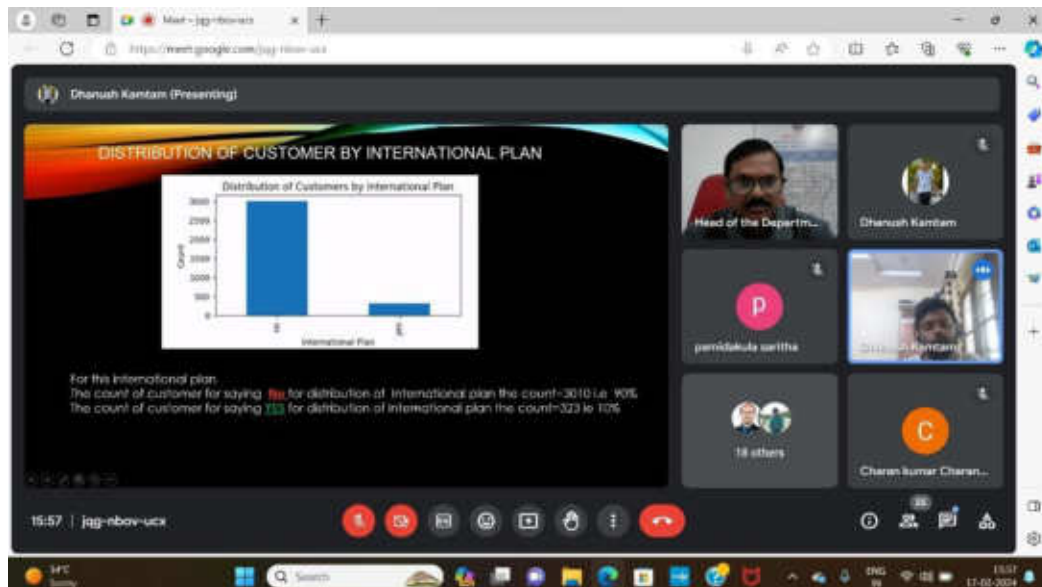


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B. Charan Kumar of MSC-II presenting the paper at the International Conference organized by S.V. University on You tube view count, presided by Professor Muni Swamy of Andhra University.



Dhanush of MSC-II presenting the paper at the International Conference organized by S.V. University on Churn Prediction, presided by Professor Muni Swamy of Andhra University



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## Field Trip

Name of the Program : Field Trip  
Date : 28th Feb  
Venue: : Survey of India  
No. of Participants: : MSCs & MSDs  
Time : 1:40-3:00 pm

On February 28, 2024, the faculty of Statistics organized a field trip for BSc (MSCS & MSDS) students to Survey of India on the occasion of National Science Day. The purpose of the trip was to provide students with practical exposure to theoretical concepts taught in class and to demonstrate the real-life applications of statistics insurveying. The field trip to Survey of India provided students with a valuable learning experience, building the gap between theoretical knowledge and practical application in the field of statistics.



Students visited National Institute for Geo-Informatics Science and Technology