



Little Flower Degree College

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Uppal, Hyderabad

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LEAD TO ILLUMINATE



MATHEMATICS

2023-24



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FACULTY OF MATHEMATICS

S.NO.	FACULTY	DESIGNATION
1	Mr. Prashanth	MEMBER
2	Ms. Swapna	COORDINATOR
3	Mr. V Naveen Kumar	MEMBER

INDEX FOR THE ACADEMIC YEAR 2023-24

SL. NO	DATE	NAME OF THE EVENT	VENUE/ PLATFORM	PARTICIPANTS
1	13-07-2023	INTERNATIONAL SEMINAR ON APPLICATIONS OF MATHEMATICS BY USING MATLAB	GOOGLE MEET	02
2	05-08-2023	NATIONAL SEMINAR ON SEQUENCE, LIMITS, SERIES AND CONTINUITY	HYBRID MODE	33
3	04-09-2023 to 08-09-2023	FIVE DAY NATIONAL LEVEL ONLINE PROFESSIONAL DEVELOPMENT PROGRAM ON COMPUTATIONALFLUID DYNAMICS METHODS AND APPLICATIONS	ZOOM	65
4	14-10-2023 to 18-10-2023	FIVE-DAY INTERNATIONAL ONLINE FACULTY DEVELOPMENT PROGRAM ON VEDIC MATHEMATICS AND BASIC SCIENCES	ZOOM	01
5	04-11-2023	ONE DAY FIELD TRIP TO RASHTRAPATI NILAYAM	BOLLARAM	183
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7	05-02-2024 to 14-02-2024	MALAVIYA MISSION TEACHER TRAINING PROGRAM NEP 2020 ORIENTATION AND SENSITIZATION PROGRAM	GOOGLE MEET	03
8	26-02-2024 to 28-02-2024	FDP on Citation and Reference Management	GOOGLE MEET	03
9	24-02-2024 to 01-03-2024	FACULTY EXCHANGE PROGRAM MOU WITH TERESIAN COLLEGE, MYSORE, KARNATAKA	GOOGLE MEET	01
10	23-05-2024 to 25-05-2024	Workshop on scientific computing using Mathematica	GOOGLE MEET	03



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Report

Report Name of the Event : International Seminar

Name of the topic : Applications of MATLAB

Date : 13.07.2023

Platform : Google Meet

Participants : Mr. M. Prashanth, Mr. V. Naveen Kumar

Mr. M. Prashanth, Mr. V Naveen Kumar from the faculty of Mathematics attended the session. One-day International Seminar on “Applications of MATLAB” which was organized by the Department of Mathematics and Statistics, St. Francis college, Koramangala, Bengaluru on 13-07-2023, 3.30 to 5.00 PM. The mode of session was online platform zoom. The speaker for the session was Dr. A. Manickam, Assistant Professor, school of advance sciences and languages, Department of Mathematics, VIT Bhopal University, Madhya Pradesh. The resource person started session with definition of MATLAB and its applications in various fields and also explained in detail about all the windows, basic operations which includes arithmetic operator's addition, multiplication, division, subtraction and order of operations in MATLAB. Sir also explained the concepts - Arrays, types of matrices, Linear Indexing Row operations, Column operations, removing rows and Columns, Swapping Rows and Columns, 2-D plotting and 3-D plotting, tools that are available for manual plotting which can plot Cycloids, Epicycloids & Hypocycloids. He also gave a brief description in drawing the multiple graphs by using the legend commands and trigonometric graphs such as sine, cosine, tan, etc.

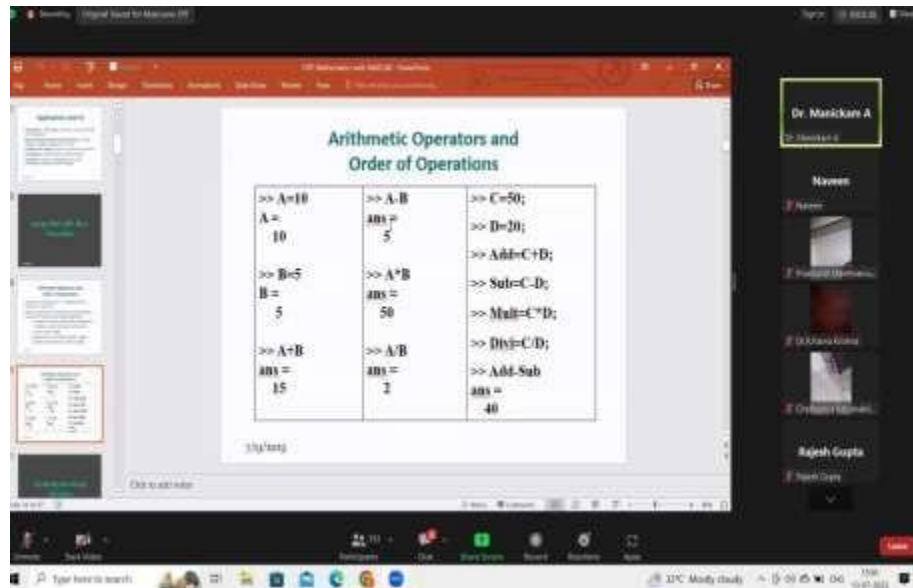


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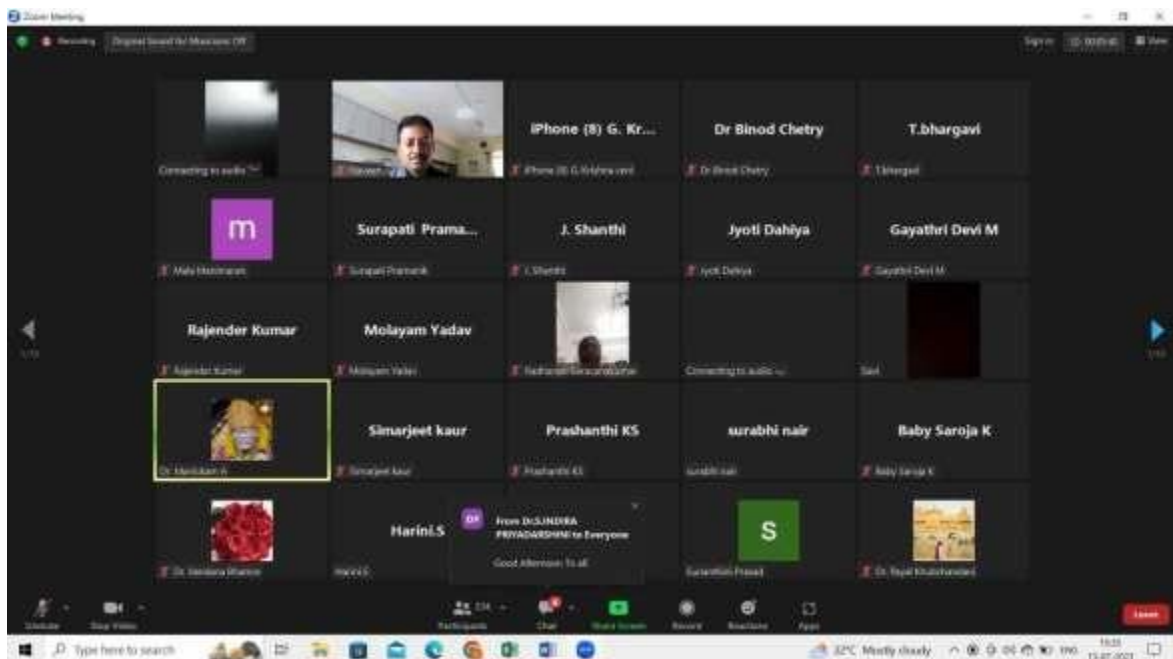
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The speaker Dr. A. Manickam, Assistant Professor, School of Advance Sciences and Languages, Department of Mathematics, VIT Bhopal, giving the insights into MATLAB



Mr. Prashanth, Mr.V. Naveen Kumar, faculty of Mathematics attending the international seminar on MATL



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Report

Name of the Event	: National Seminar
Name of the topic	: “Sequences, Series, Limits & Continuity”
Date	: 05.08.2023
Plat form	: Google Meet / Hybrid Mode
No of participants	33
MOU	: Mar Gregorios College of Arts & Science, Tamil Nadu
Audience	: Students of both institutions

The faculty of Mathematics in collaboration with the Mar Gregorios College of Arts & Science, Mogappari, Chennai organized a National Seminar on Sequences, Series, Limits & continuity in hybrid mode. The session was started by invoking the blessings of God followed by the introduction of the resource person Dr. G. Upender Reddy, Assistant Professor, Department of Mathematics, University College of Science, Mahatma Gandhi University, Nalgonda, Telangana by Tejon Mai MSCS II year. In this session, speaker enriched the students on sequences, series, boundedness of sequences, convergent and divergent sequences, oscillating sequences, and various tests to analyze whether the series is convergent or divergent. Sir also explained the difference between limits and continuity by giving various examples. This session helped the students to develop a theoretical approach to the concept and apply it.

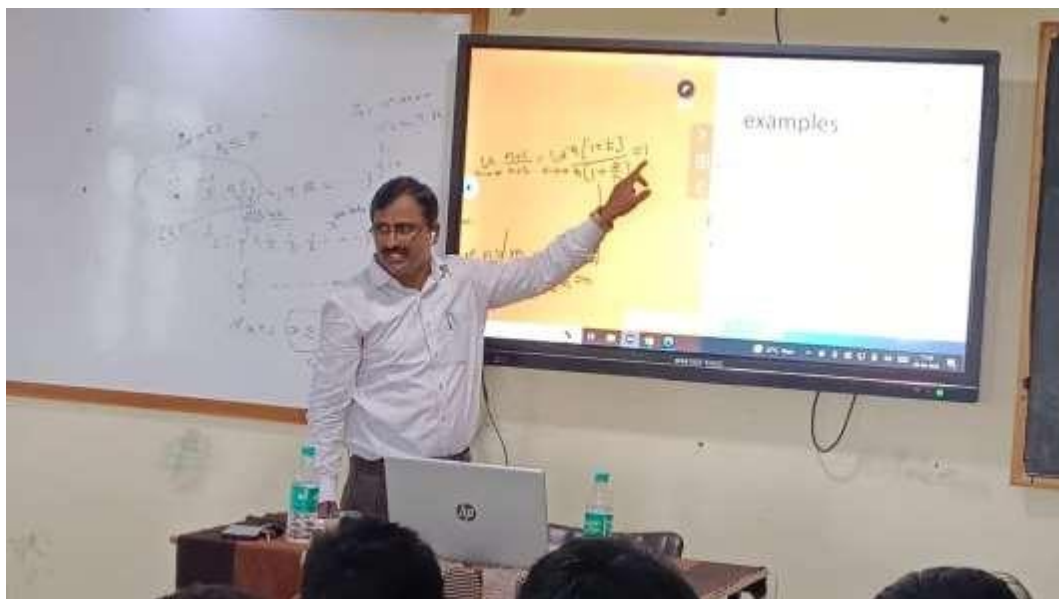


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The Resource Person Dr. G. Upender Reddy, Assistant Professor, Department of Mathematics, University College of Science, Mahatma Gandhi University taking session for students on Sequences, the limit of a sequence, continuity, series.



Ms. P. Jayanthi Reddy, Principal, LFDC felicitating the resource person Dr. G. Upender Reddy with a memento.



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Report

Name of the Event	: Five Day National Level Online PDP
Name of the topic	: Computational Fluid Dynamics Methods & Applications
Date	: 04.09.2023 to 08.09.2023
Plat form	: Google Meet
Audience	: Faculty from various institutions
No of participants	: 65

A Five-Day National Level Online PDP on “Computational Fluid Dynamics Methods and Applications” was jointly organized by the faculty of Mathematics, Little Flower Degree College, Uppal, Hyderabad, Telangana & Sonapur College, Sonapur, Assam from 04.09.2023 to 08.09.2023. The main aim of this program is to enhance the participants in the area of computational fluid dynamics by using various methods.

Day 1: (04.09.2023)

The resource person of the day was Prof. Jiten Chandra Kalita, Assistant professor, IIT Guwahati. He gave a lecture on the topic “Scientific Computing and Turning an Aero foil into swimming fish”. Prof. Jiten Chandra Kalita explained about the importance of scientific computing by taking live examples in our day-to-day life. He focused on the main areas of Mathematics namely Fluid Dynamics, partial Differential Equations, and Computational Techniques which give a lot of scope in the field of research.

Day 2: (05.09.2023)

The resource person of the day was Dr. Shankar Rao Munjam, Assistant Professor of Mathematics, School of Technology, Woxsen University, Hyderabad, Telangana, India & Adjunct Professor, Department of Basic Sciences, University of The Peoples, Pasadena, California, USA. Sir gave lecture on the topic “Analytical Solution of Fractional Order Non-Linear Vander Pole Equations”. His talk focused on Vander pole equations with initial pole conditions fractional order derivatives how they are used in day-to-day life.



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Day 3: (06.09.2023)

The resource person of the day was Dr. Anjanna Matta, Assistant Professor of Mathematics, IFHE University who provided insights about Methods of solutionsof PDE in fluid dynamics. The speaker explained the working process of CFD by taking Navier -Stokesequations in Cartesian co-ordinates and various types of CFD codes. Using GAMBIT and FLUENT models, as well as the advantages of CFD, which include theability to simulate conditions and increase speed levels in a cost-effective manner.

Day 4: (07.09.2023)

The resource person of the day was Prof. Shuvam Sen, Professor of Mathematics, Tezpur University and the topic was the fourth order compact discretization of the incompressible N-S Equations in deformable domains. Sir started with the session by explaining about the mathematical observations by taking a small pic which is painted by Leonardo Vinci and visualizations of vortex shedding halla jesu island in korea which was taken by NOAA-11 satellite. In addition to this sir explained by taking Taylors series problem of first and second order derivative and solving by using finite difference method.

Day 5: (08.09.2023)

The resource person of the day was Prof. A. Maruthi Prasad, Professor of Mathematics, Gitam Deemed to be University who provided insights about Methods of Solutions. Sir has explained about the recent work research work analysis which is done by the researchers using analytical methods which includes, power series methods, asymptotic series solutions, perturbation methods, non-perturbation homotopic methods, a domain decomposition method which is also known as semi-analyticalmethod. Sir gave a brief description on Perturbation methods. The Five-day programme was interesting, inspiring, and informative



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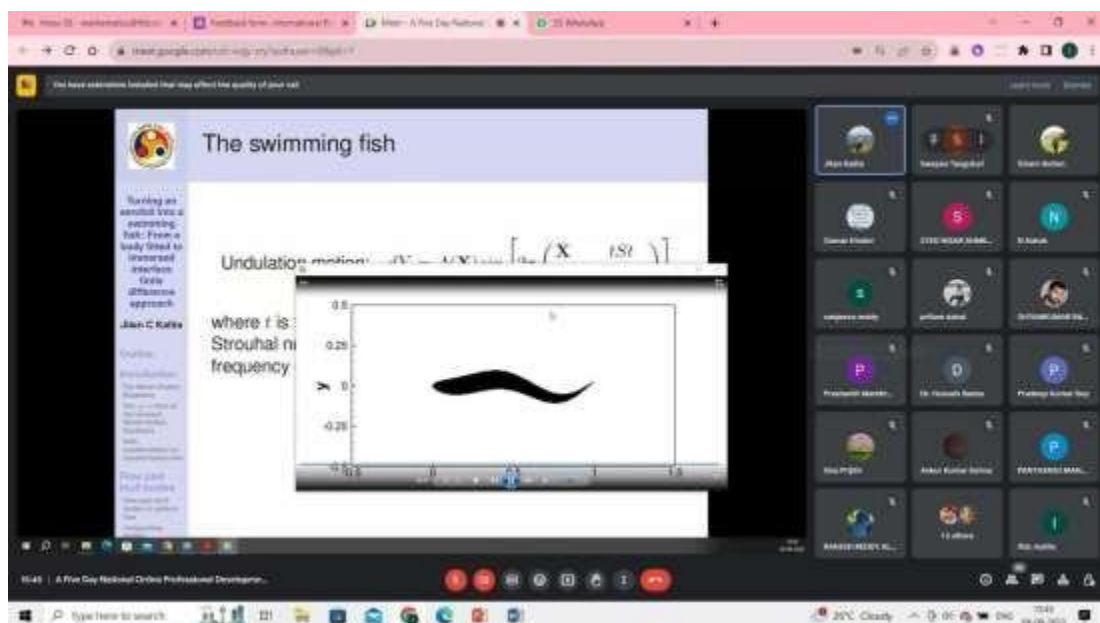
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Day – I



Prof. Jiten Chandra Kalita, Assistant professor, IIT Guwahati explaining about the concepts of Scientific computing, how to calculate the death time of a person by using Mathematical Modelling in FDP.



Prof. Jiten Chandra Kalita, Assistant professor, IIT Guwahati explaining about the concepts of Navier Stokes equation and explaining how to turn an aerofish into Swimming fish in FDP.



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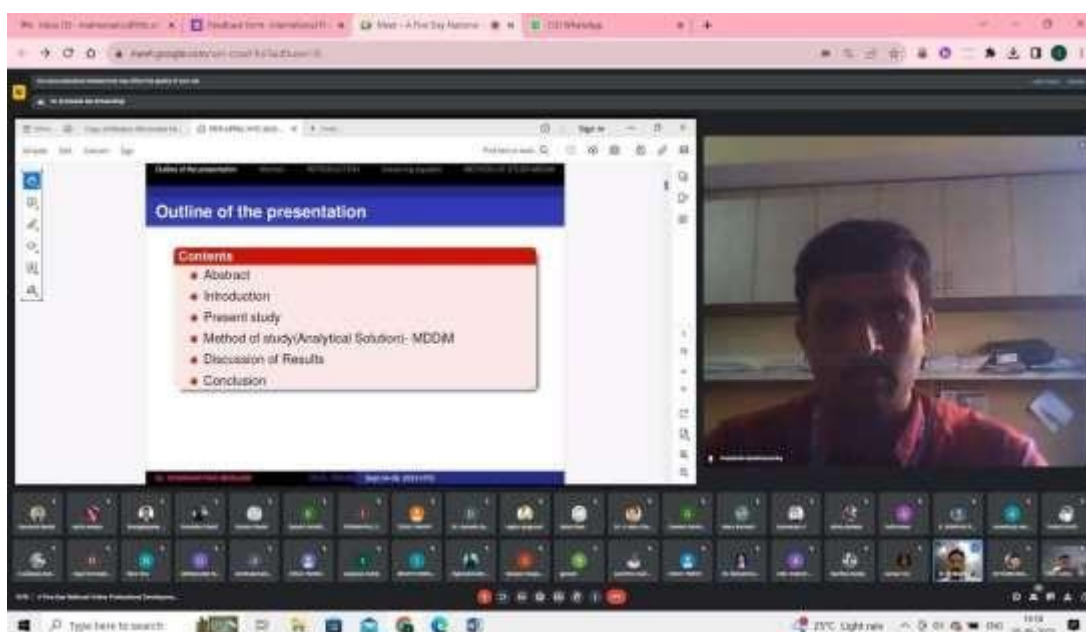
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Day – II



Dr. Shankar Rao Munjam, Assistant Professor of Mathematics, School of Technology, Woxsen University, Hyderabad explaining about the concepts of Analytical Solution by fractional order of Nonlinear Vander Pol Equations.



Mr. M. Prashanth, Faculty, of Mathematics participating in the second day's session in Five Day National Level Online Professional Development program.



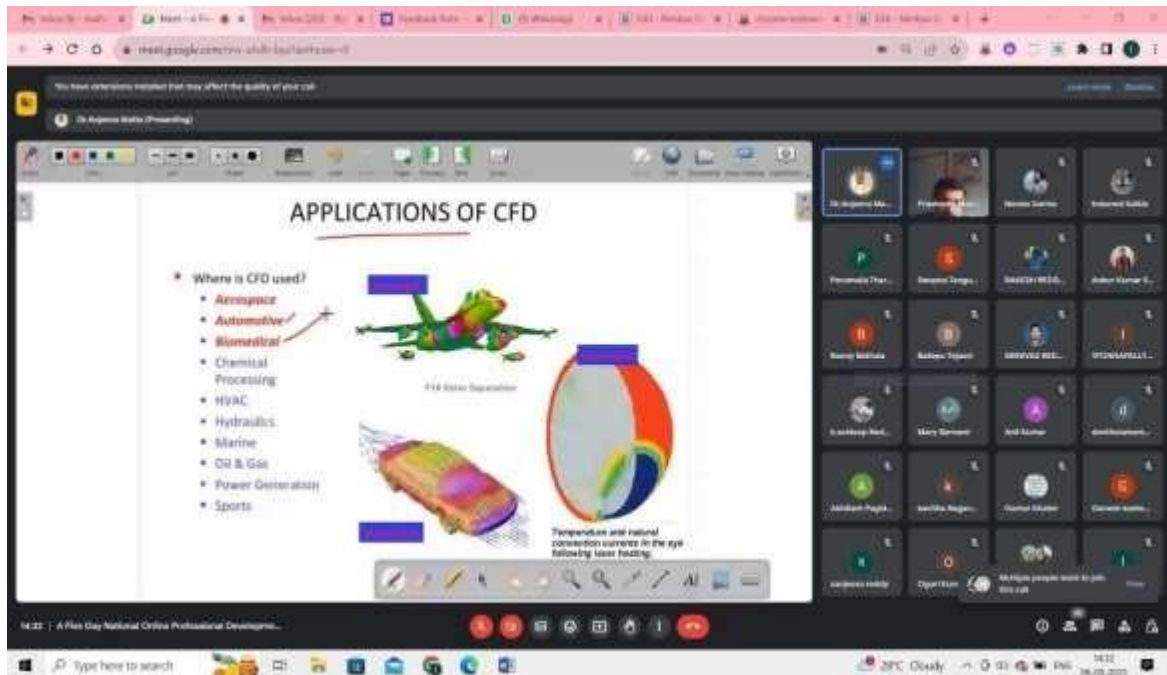
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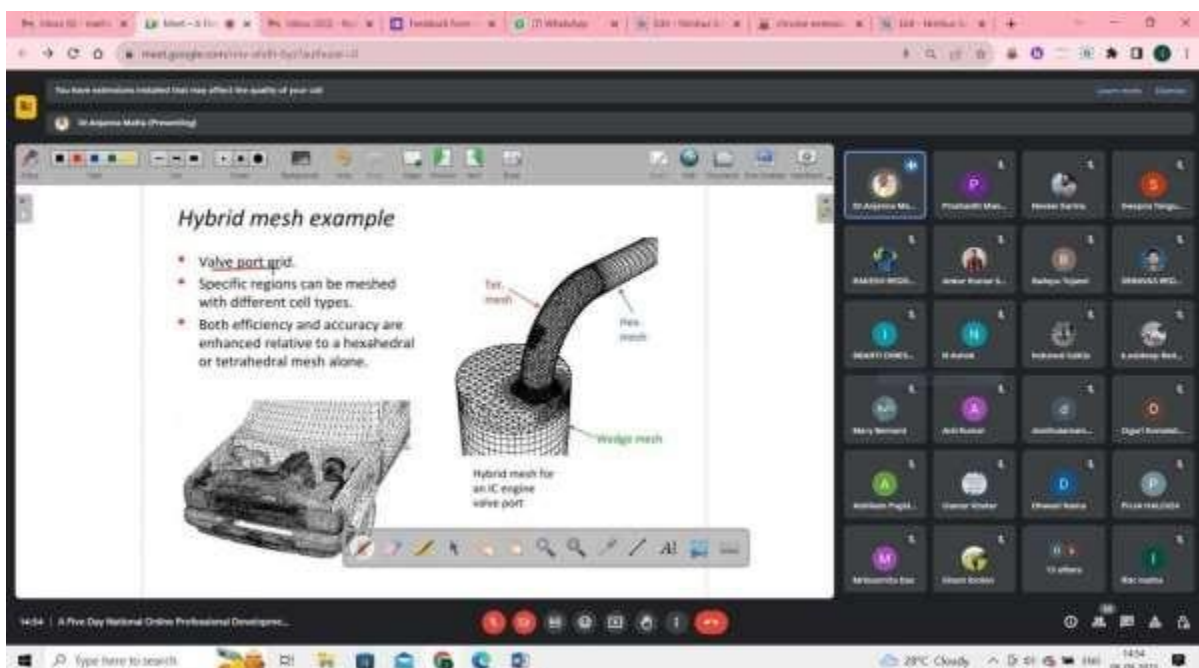
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Day – III



Dr. Anjanna Matt, Assistant Professor of Mathematics, IFHE University explaining the applications of CFD by giving different examples in Five Day National Level Online Professional Development Program.





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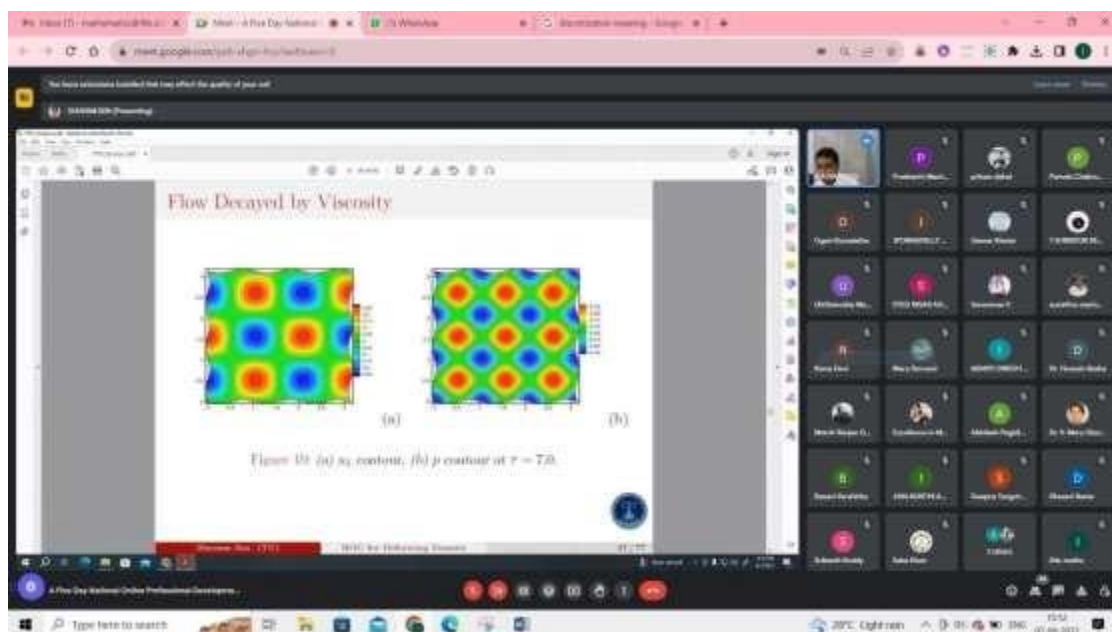
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Day – IV



Prof. Shuvam Sen, Professor of Mathematics, Tezpur University explaining about the fourth order Compact Discretization in deformable domains.



Prof. Shuvam Sen, Professor of Mathematics, Tezpur University explaining about the rate of flow of Viscosity in different mediums in the session.



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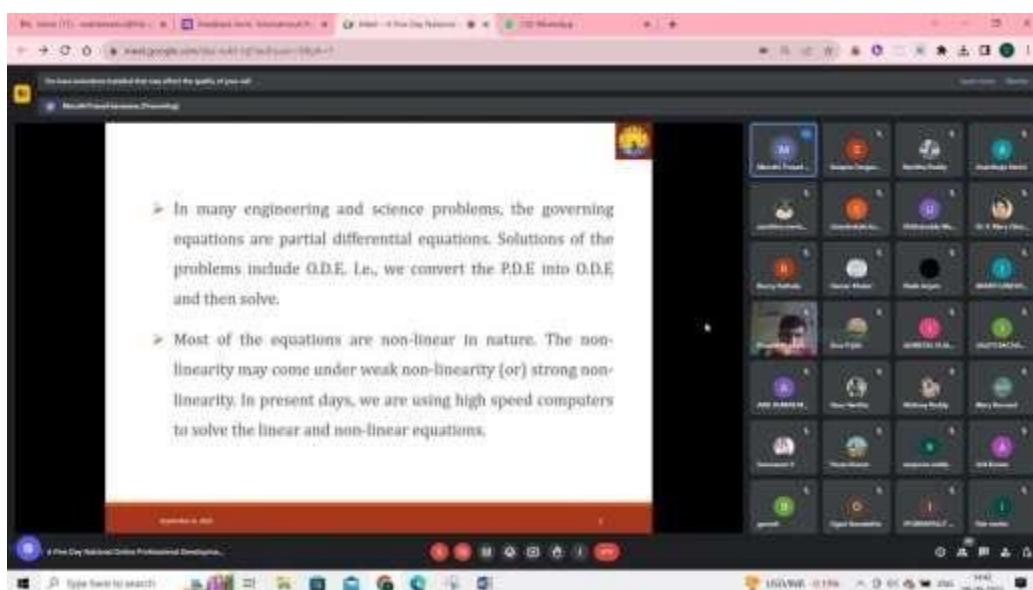
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Day – V



Mr. M. Prashanth, Faculty of Mathematics welcoming the Resource person Prof. A. Maruthi Prasad, Professor of Mathematics, Gitam Deemed to be University in Five Day National Level Online Professional Development Program.



Prof. A. Maruthi Prasad, Professor of Mathematics explaining the Governing Equations and also about Partial Differential Equations and Ordinary Differential Equations.



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Report

Name of the Event	: International Faculty Development Programme
Name of the topic	: Vedic Mathematics and Basic Sciences
Date	: 14.10.2023 to 18.10.2023
Plat form	: Google Meet
Participants	: Ms. T. Swapna

Ms.T. Swapna, faculty of Mathematics, Department of physical sciences attended The Five-Day International Faculty Development on “Vedic Mathematics and Basics Sciences” which was organized by the Woxsen University. Faculties from the various institutions participated in this event.

The FDP was focused on – The ancient system of calculation which comprises of techniques and sutras to solve mathematical problems in an easier way compared to modern math, the formulae (sutras) sixteen sutras and sub-sutras of Vedic Mathematics which were discovered by Shri Bharati Krushna Tirthaji found, Linear differential equations in mathematical modelling, Classification of MHD equations Lagrangian coordinates and Eulerian coordinates, Non-Linear differential equation, Linear stability analysis, Eigen values, Applications in Biology, Cosmological principle, Field equation in Lambda cosmology, Hubble's Law, Scalar field Cosmology, In-homogenous cosmology, Discrete shift operator, the contributions of Great Ancient Indian Mathematicians – Aryabhata, Brahmagupta, Bhaskara II, Varahamihira, Pingala Sutras, Vyakarana Sutras, Sulba Sutras, Katyayana Sutras, Jain Mathematics, Numerals and the decimal number System and classical period. Bakhshila manuscript.



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Ms. T. Swapna, Faculty of Mathematics attending the Five-Day International FDP on Vedic Mathematics and Basic Sciences.





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Report

Name of the Event	: Field Trip
Name of the place	: Rastrapathi Nilayam
Date	: 4 November, 2023
Venue	: Rastrapathi Nilayam, Bollaram, Hyderabad.
Participants	: B.Sc. I, II, III students of LFDC (185)
No of participants	183

The faculty of Mathematics, Department of Physical Sciences organized a field trip to Rashtrapati Nilayam, Bollaram on Nov 4th 2023 for BSC I, II, III-year students. The purpose of the field trip is to learn about the history, importance and architecture of 163-year-old Rashtrapati Nilayam which was constructed in 1860. 183 Students from B SC I, II, III year accompanied by 6 faculty visited the place. The students were divided into groups and were guided by the staff of Rashtrapati Nilayam. During this field trip, art gallery, meeting room, Kitchen Tunnel – on the walls which Cheriya paintings were drawn with organic colours which reflects our history, Herbal Garden, Rock Garden, Nakshatra Vatika – all about the plants related to Nakshatras, Zodiac- Signs, Planets etc are seen. The students had a great time learning about the history of Rashtrapati Nilayam.



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B Sc Final year students along with the faculty members at Rock Garden



Picture depicting trees related to star and zodiac sign



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Mr. Prashanth, Faculty, Dept. of Mathematics along with students in Gurukul.



B.Sc. students along with the faculty members at main building, Rastrapathi Nilayam



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Report

Name of the Event	: Two Day Faculty Development Programme
Topic	: Mathematical Software for Teaching and Research
Date	: 2- 3rd February, 2024
Venue	: St. Francis College for Women, Hyderabad
Participants	: Mr. M Prashanth, Mr. V. Naveen Kumar

Mr. M. Prashanth, Mr. V Naveen Kumar faculty of Mathematics, Department of Physical Sciences attended the Two-Day Faculty Development program on “Mathematical Software for Teaching and Research” which was organized by the St. Francis College for Women, Hyderabad. Faculties from the various institutions participated in this event.

First day of the session was by Dr. D. Vignesh with the basics of the Mathematical Software tool MATLAB and its installation process and how to start the MATLAB software in the system and key features related to MATLAB. Sir explained the various commands related to programming and how we can apply for the problems to get the solutions. Second day the session was on SAGEMATH, its installation process and how to start the SAGEMATH software in the system. Sir explained the various commands related to programming and to draw the graphs, modify them and also to solve the equations, and get the solution for a higher degree.



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Ms. Lavanya, Faculty, Dept. of Mathematics introducing the speaker Dr. D. Vignesh in the FDP program



Mr. V Naveen Kumar, Faculty, LFDC receiving the participation certificate from Ms. Rekha Jai Chander in the FDP program



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NEP-Orientation and Sensitization programme

Date: 5th to 14th February, 2024

Time: 2PM to 5PM

Venue: Online, ZOOM

Institution: UGC-Malaviya Mission Teacher Training Centre

UGC-training centre for teachers known as Malaviya Mission Teacher Training Centre in collaboration with Osmania University organized 10 days “NEP- Orientation and Sensitization Programme” from 5th to 14th February from 2: 00pm to 5:00 pm. The course was equivalent to “One Short Term Course” (STC) organized online by Director Prof. Smita Pawar, Dr. Sandhya Rani, Assistant Director and Dr.T. Nagaveni, Associate Director respectively. A schedule was given to the registered participants along with link for each day. Each day two sessions by highly distinguished resource persons, were organized in tune with 2 sessions eachday with NEP in the afternoon. Each day’s session in brief:



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Day – I

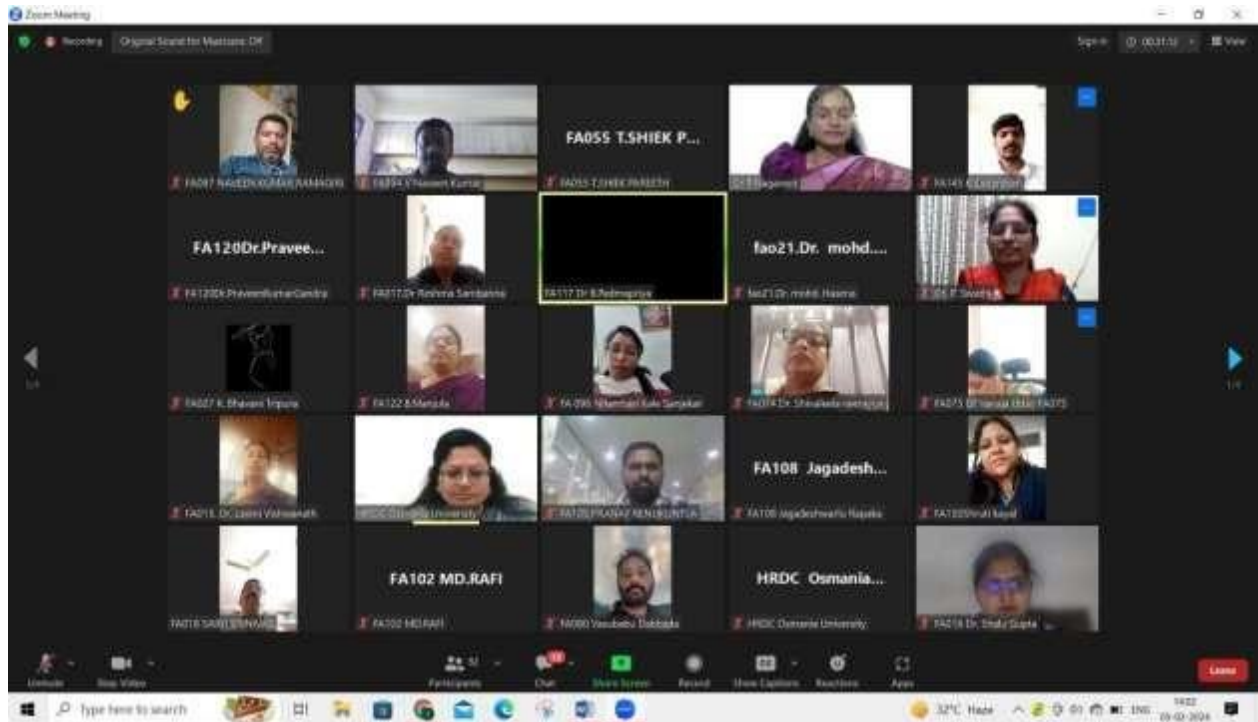
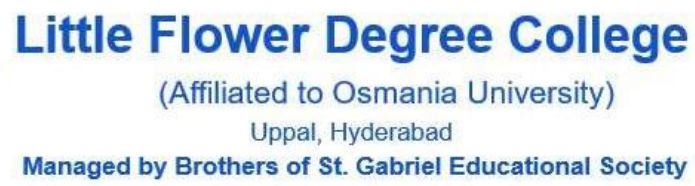
**Changing Perspectives
in Indian Higher Education**

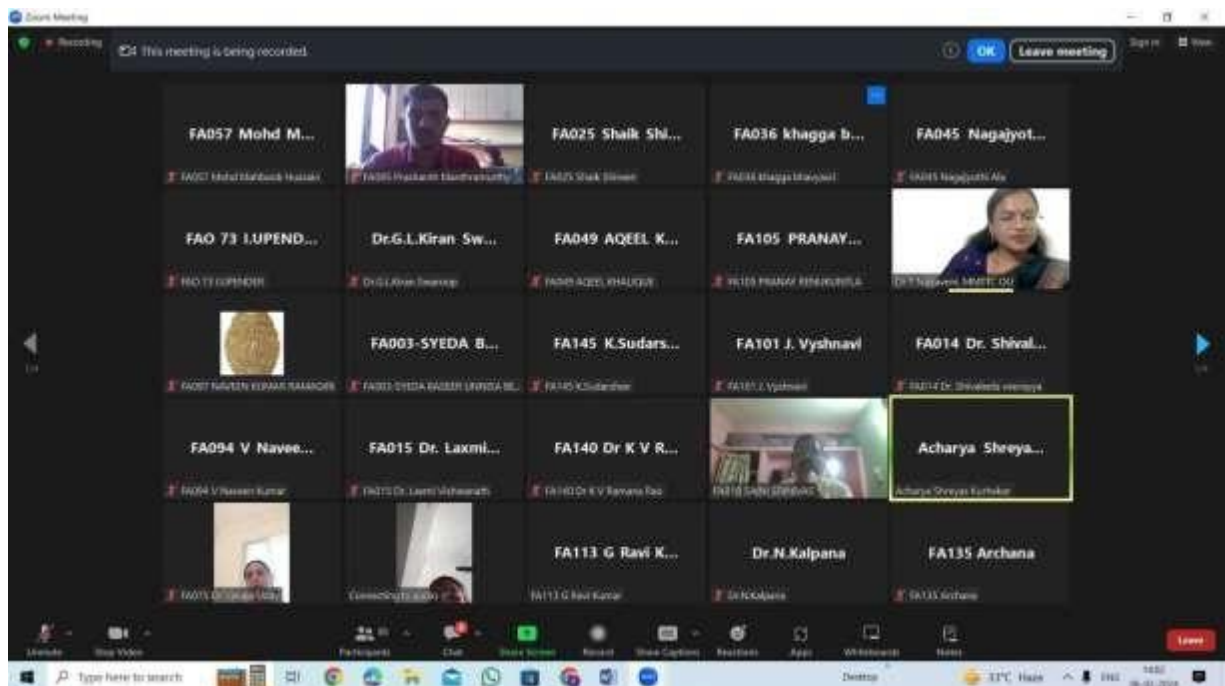
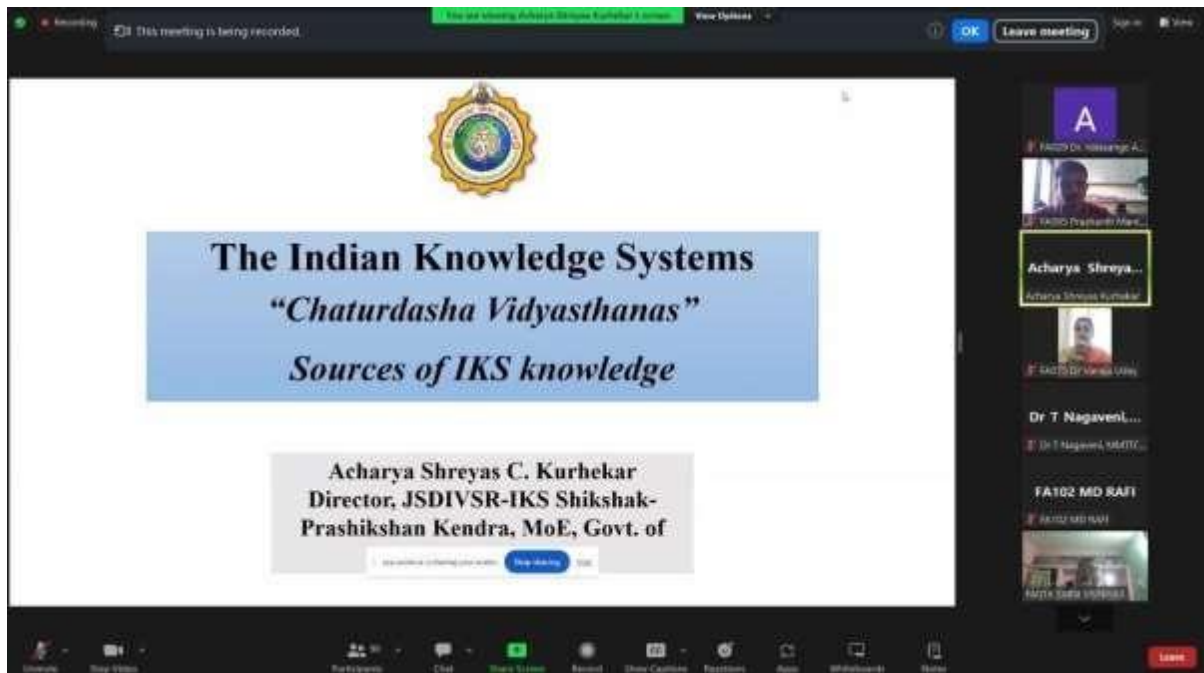
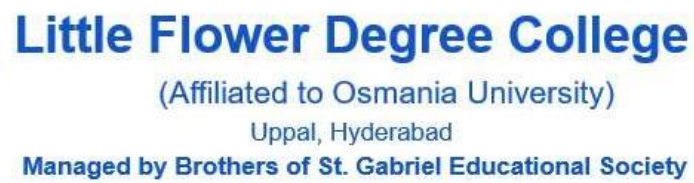
Prof. RAJA SHEKHAR BELLAMKONDA
B. Tech. (Civil), M.B.A, Ph.D. (Mgt.), M. Sc., Ph.D. (Psy), M.A., Ph. D. (Edu.), PGDPMIR, PGDCS, FDP(IIMA)

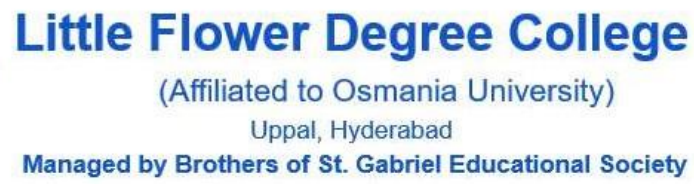
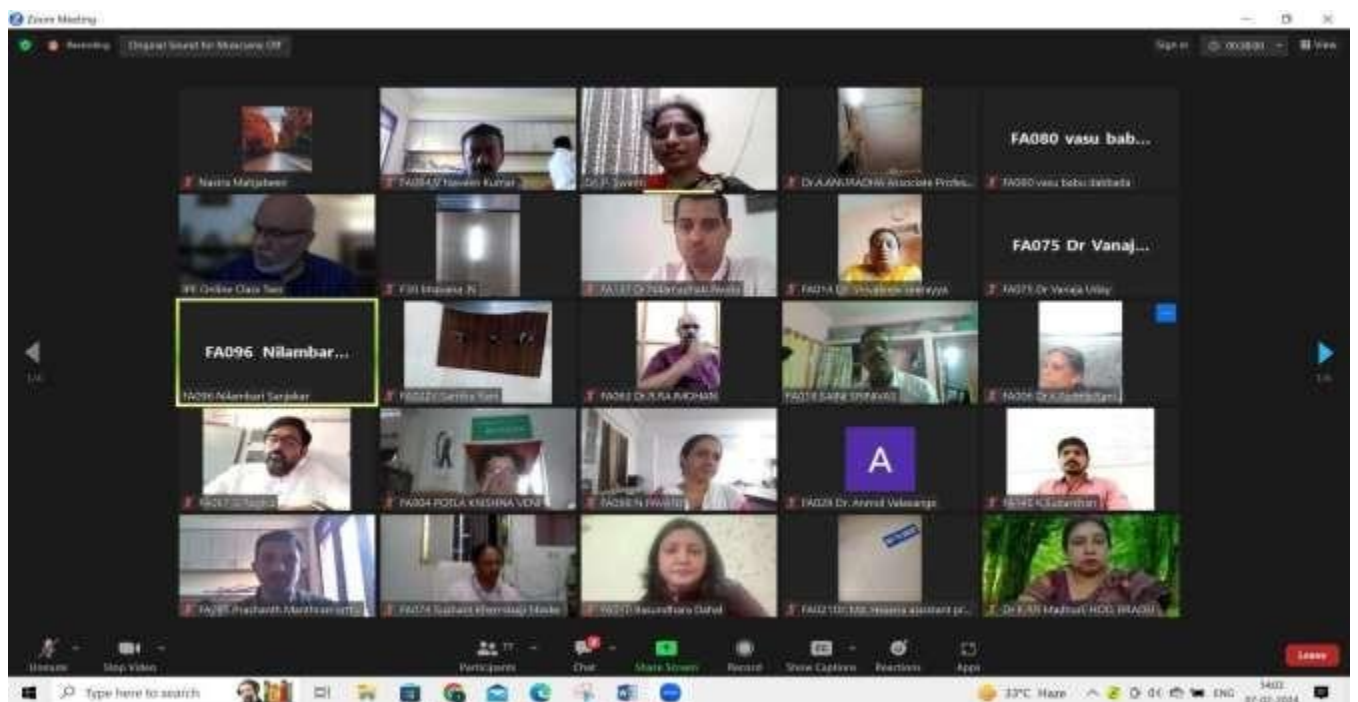
Senior Professor
SCHOOL OF MANAGEMENT STUDIES
UNIVERSITY OF HYDERABAD
HYDERABAD-500 046
brmsuh@gmail.com
www.profbrajashekhar.in

The screenshot shows a Zoom meeting interface. The main window displays a presentation slide with the title 'Changing Perspectives in Indian Higher Education' and the name 'Prof. RAJA SHEKHAR BELLAMKONDA'. Below the name are his qualifications and contact information. On the right side, there is a list of participants, including 'FA094 V Navee...', 'Mohd Mahboob', 'FA145 K.Sudars...', and 'FA120Dr.Pravee...'. The bottom of the screen shows the Zoom toolbar with options like 'Unmute', 'Start Video', 'Participants', 'Chat', 'Share Screen', 'Record', 'Share Captions', 'Reactions', and 'Apps'. The system tray at the bottom indicates the date and time as 05-02-2024, 14:02.

The screenshot shows a Zoom meeting interface with a grid of participants. The grid consists of 20 small video windows arranged in 4 rows and 5 columns. Each window shows a different participant, mostly men, in various settings. The names of the participants are listed below their respective video windows. The bottom of the screen shows the Zoom toolbar with options like 'Unmute', 'Start Video', 'Participants', 'Chat', 'Share Screen', 'Record', 'Share Captions', 'Reactions', and 'Apps'. The system tray at the bottom indicates the date and time as 05-02-2024, 14:02.





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Day – IV

Can face-to-face classes be replicated in virtual space?

Category	Virtual Equivalent
Teaching	Online Teaching
Assignment	Electronic Assignment
Classroom Discussion	Online Discussion/ Discussion Forum
Test/Examination	Online Test

Handwritten notes: T. R. C. →

Participants in the Zoom meeting grid:

- Dr. P. Swathi
- FA003 - SYEDA...
- Dr. Shaik Moha...
- FA062 Dr. M. A...
- FA043 Dr. M.M...
- FA039 Dr. J. KAN...
- FA073 LUPEND...
- FA101 J. Vyshnavi
- FA032 Dr. Malathi
- FA045 Nagajyot...
- FA061 Dr. Chhav...
- FA117 Dr. B. Pad...
- FA009 Dr. A. Jyot...
- FA075 Dr. Vanaj...
- FA145 K. Sudars...
- FA015 Dr. Laxmi...
- FA086 Biswajit...
- FA106 Dr. V. Vid...
- FA027 K.
- FA096 Nilambar...
- FA132 Santoshi...



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Day – V



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Day – VI

Zoom Meeting
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Tasks Involved in Research Methodology

1. Introduction to Research
2. Research Design
3. Literature Review
4. Hypothesis Formulation
5. Sampling Techniques
6. Data Collection Methods
7. Data Analysis Techniques
8. Ethical Considerations
9. Research Instruments
10. Data Presentation and Reporting
11. Research Proposal Writing
12. Critical Thinking and Problem Solving
13. Quantitative and Qualitative Research Integration
14. Use of Technology in Research
15. Publication and Presentation
16. Peer Review Process
17. Research Project Management

From FA029 Dr. RAKESH SREEDHARA to Everyone

FA029 Dr. Valas...
FA029 Dr. Srinivasulu A...
FA029 Dr. Srinivasulu...
FA003 - SYEDA...
FA003 - SYEDA BASIL...
Ambika S
Dr. P. Swathi
Dr. P. Swathi

Recording This meeting is being recorded.

Reforming Research in Universities -
All about
Research, Publishing and my own
Research

Rekha Pande

Professor Emeritus, Henry Martin Institute, International Centre
for Research, Interfaith Relations and Reconciliation, Hyderabad

Former Head, Centre for Women's Studies, Former
Head, Department of History, University of Hyderabad

FA003 - SYEDA BASIL...
FA003 Prashanth Mani...
Dr. T. Nagaveni
Dr. T. Nagaveni
Rekha Pande
FA003 Dr. Arjun Vajra...
FA003 Dr. Arjun Vajra...
FA003 Dr. Arjun Vajra...
FA003 Dr. Arjun Vajra...



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Day – VII

Research Areas

MEDIEVAL INDIAN HISTORY

- HISTORY OF RELIGION
 - Historiography
 - Bhakti Movement
 - Islam
- WOMENS HISTORY
 - Gender & History
 - Devadasis
 - Women's Status
- AGRARIAN HISTORY
 - Land Grants
 - Historiography
 - Peasants

Zoom Meeting interface showing participants on the right and a taskbar at the bottom.

Zoom Meeting interface showing a grid of participants. Visible names include:

- FA004 POTLA K...
- FA075 Dr Vana...
- FA003 - SYEDA...
- FA132 santoshi
- FA055 T.SHIEK P...
- Dr. S. Maharasi
- F30 bhavana .N
- FA051 Dr. Chen...
- FA066 B Ramak...

Zoom Meeting interface showing a taskbar at the bottom.



Zoom Meeting

This meeting is being recorded.

OK Leave meeting

FA004 POTLA K...

FA075 Dr Vanaj...

FA132 santoshi

FA015 Dr. Laxmi...

FA047 Syed Sibte...

F30 bhavana .N



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FDP on Citation & Reference Management for Scholarly Writing

Name of the Event: Faculty Development Program

Title: Virtual International FDP on Citation & Reference Management for Scholarly Writing

Date: 26th to 28th of February, 2024

Time: 4:00 P.M to 5:30 P.M IST

Mode: Online Zoom

Participants: M. Prashanth & T. Swapna

Resource Person: Dr. P. Mathivanan, Associate Professor – Decision Sciences, NSB Bangalore, Karnataka, INDIA.

Mr. M. Prashanth and T. Swapna from the Department of Mathematics attended a three-day International Level Faculty Development Programme on Citation and Reference Management for Scholarly Writing online from February 26th to February 28th, 2024. Dr. P. Mathivanan, Associate Professor of Decision Sciences at NSB Bangalore in Karnataka, India, is the resource person for the three-day International FDP.

The FDP began with an invocation of God's blessing, followed by a welcoming speech by Dr. Srinidhi K. Parthasarathi, Director of NSB Bangalore, who congratulated all attendees on their participation. On the first day, Dr. P. Mathivanan demonstrated how to search for articles using Journal Finder Elsevier, as well as how to find impact factors. He ended the session by explaining how to download the Mendeley program.

On day 2 Dr. P. Mathivanan spoke about how to add references by using Mendeley, the alternative approach, and also how to refer to the research publications.

On the last day, he provided a session on comprehensive choices in the Mendeley program and he assigned an assignment to make a PDF or MS Word file in which to write an Abstract and Literature Review by utilizing Mendeley software reference. Participants had several queries and he clarified them.



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A Business School affiliated to Bangalore University and
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Internal Quality Assessment Cell
Organizes

**A Three-day
Faculty Development Program on
Citation & Reference Management for Scholarly
Writing**

26th to 28th of February, 2024
(4:00 P.M to 5:30 P.M, Online Mode)

Zoom Webinar

This webinar is being recorded. Participants (1/11194)

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MENDELEY

Session - 2
Harnessing the Power of
Mendeley Reference Manager

Mathivanan Periasamy
Associate Professor (Decision Sciences)
NSB Bangalore
Karnataka, INDIA
mathivananperiasamy@gmail.com
Mobile: +91 9488575383

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21-02-2024



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Zoom Meeting

You are viewing Mathivanan Periasamy's screen. View Options

Mathivanan Periasamy

NSB Bangalore

MENDELEY

Session – 3

Advanced features of Mendeley Reference Manager

Mathivanan Periasamy
Associate Professor (Decision Sciences)
NSB Bangalore
Karnataka, INDIA
mathivananperiasamy@gmail.com
Mobile: +91 9488575393

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Zoom Meeting

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Prateek Kalia
Department of Corporate Economy, Masaryk University, Brno, Czech Republic
Robin Kaushal and Meenu Singla
Sri Aurobindo College of Commerce and Management, Ludhiana, India, and
Jai Parkash
Independent Researcher, Ludhiana, India

Received: 13 April 2023
Revised: 1 August 2023
19 September 2023
Accepted: 22 September 2023

Abstract

Purpose – The purpose of this paper is to determine the role of service quality (SQ), trust and commitment to customer loyalty (CL) for telecom service users. Further, the moderating role of gender, marital status and connection type within the model was tested.

Design/methodology/approach – A measurement model was created based on valid 615 responses from Indian TSUs for SQ, trust, commitment and loyalty with the help of partial least squares structural equation modeling (PLS-SEM). Multi-group analysis (MGA) was conducted to understand the moderating effect of marital status, gender and connection type within the model.

Findings – The results suggest that, out of five dimensions of SQ, only responsiveness, assurance and empathy have a significant positive relationship with both commitment and trust. Tangibility has a significant positive relationship with trust only. Both commitment and trust have a significant impact on loyalty. It was noticed that both commitment and trust act as mediators between three SQ dimensions (assurance, empathy and responsiveness) and CL. MGA revealed that empathy and responsiveness positively induce trust in telecom users who are single. Whereas, assurance increases commitment toward telecom service providers in married users. Assurance and empathy significantly contribute toward commitment and trust, respectively, in male users as compared to females. Empathy was found important for prepaid users for trust-building, whereas trust was found to be more important for prepaid users to stay loyal to the service.

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Report on Faculty Exchange Programme

Name of the Event : One Week Faculty Exchange Program:
Topic : Ordinary and Partial differential equations
Date : 24th – 1st March 2024

The faculty of Mathematics, Department of Physical Sciences, Little Flower Degree College, Uppal, Hyderabad, organized a one-week Faculty Exchange Programme with Teresian College, Karnataka for second-year students from February 24 to March 1, 2024. Mr. M. Prashanth, faculty of mathematics, Little Flower Degree College taught Teresian College students as part of the faculty exchange program.

The lectures were focused on ODE - higher-order linear differential equations Complementary Functions, Particular Integrals, PDE fundamentals, including how to form PDEs by eliminating arbitrary constants and functions, the Lagrange method methods of Non-Linear First Order Partial Differential Equations.



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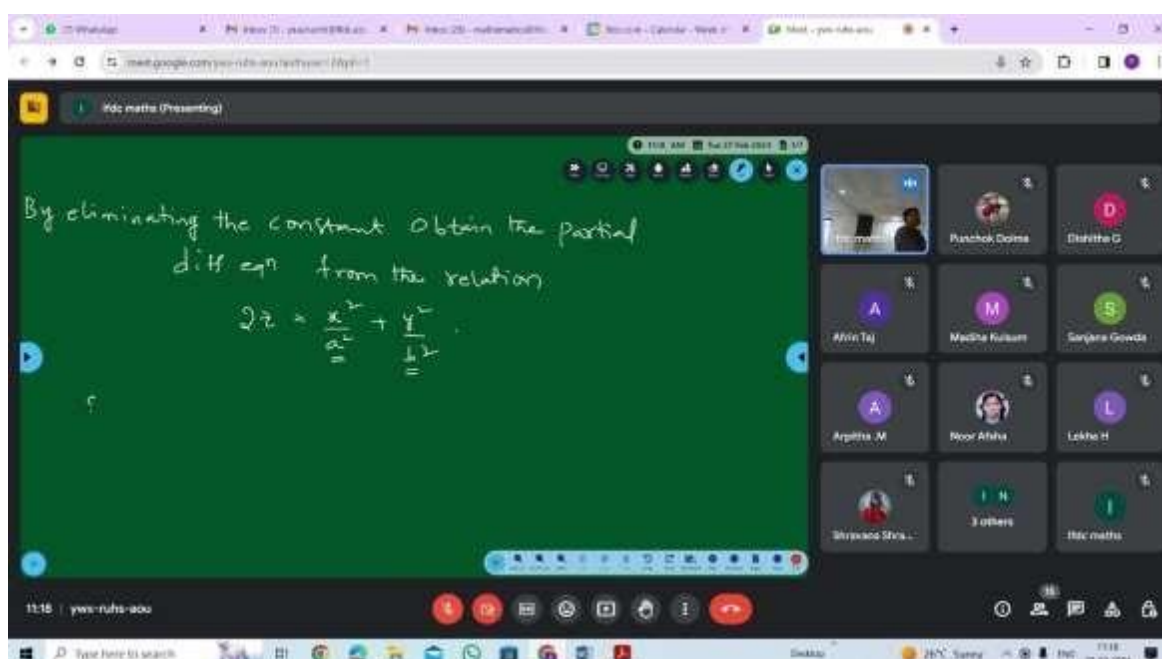
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Mr. Prashanth, Faculty from LFDC taking the session for the students of Teresian College, Mysore Under faculty exchange program





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WORKSHOP ON SCIENTIFIC COMPUTING USING MATHEMATICA

Name of the Program: Workshop on scientific computing using Mathematica

Date: 23-5-2024 to 25-5-2024

Venue: G Meet - Online

Participants: 03 (Prashanth, Swapna, Naveen)

Resource Person: Dr. G. Srinivas, Dr. Arayan, Dr. Nirmala

The faculty of Mathematics from the Department of Physical Sciences attended the workshop on Scientific Computing using MATHEMATICA from 23-5-2024 to 25-5-2024 through online mode Google Meet organised by Department of freshman engineering, Geethanjali college of Engineering and Technology, Cheeryal (V), Kesara (M), Medchal (Dist.), Telangana.

Dr. Nirmal, Resource person explained about the basics of MATHEMATICA, Mathematica is widely used for symbolic computation, solving mathematical equations, calculus, algebra, and symbolic manipulation. It's extensively used for data analysis, including statistical analysis, regression, and data visualisation through plotting functions and graphics. Mathematica provides tools for machine learning tasks such as classification, regression, clustering, and neural networks.

Dr. G. Srinivas, Resource Person taught about Mathematica Software and focused on how to find solutions to fluid flow problems by using Mathematica Software. He also explained various applications of Mathematica such as engineering disciplines for simulation, optimization, and design analysis. It's employed for image processing tasks such as image manipulation, filtering, and feature extraction, as well as signal processing applications.

Dr. Arayan, Resource person spoke about the Wolfram Mathematica, is a software system with built-in libraries for several areas of technical computing that allow machine learning, statistics, symbolic computation, data manipulation, network analysis, time series analysis, NLP, optimization, plotting functions and various types of data.

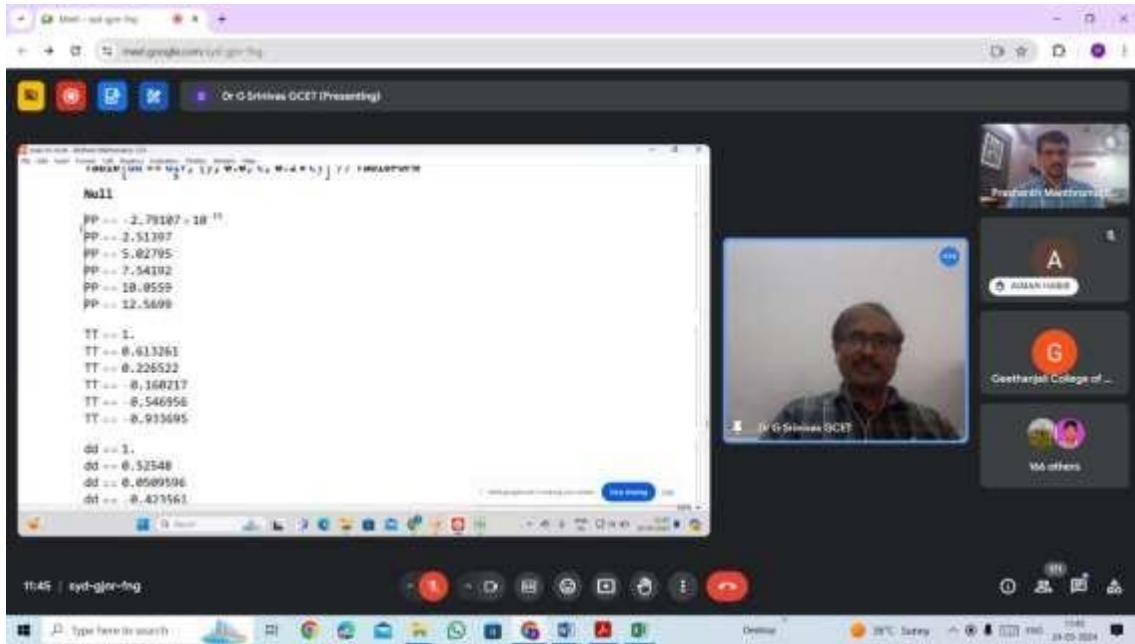


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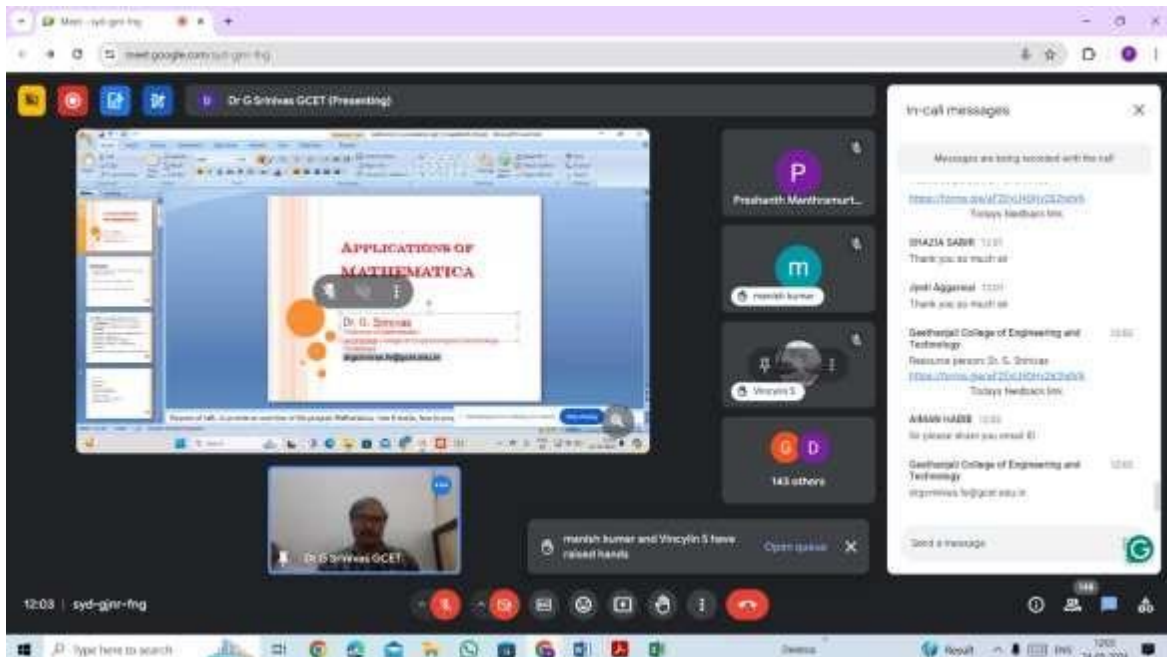
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Dr. G. Srinivas, Resource Person explaining the applications of MATHEMATICA



Dr. G. Srinivas, Resource Person, clarifying the doubts of the participants

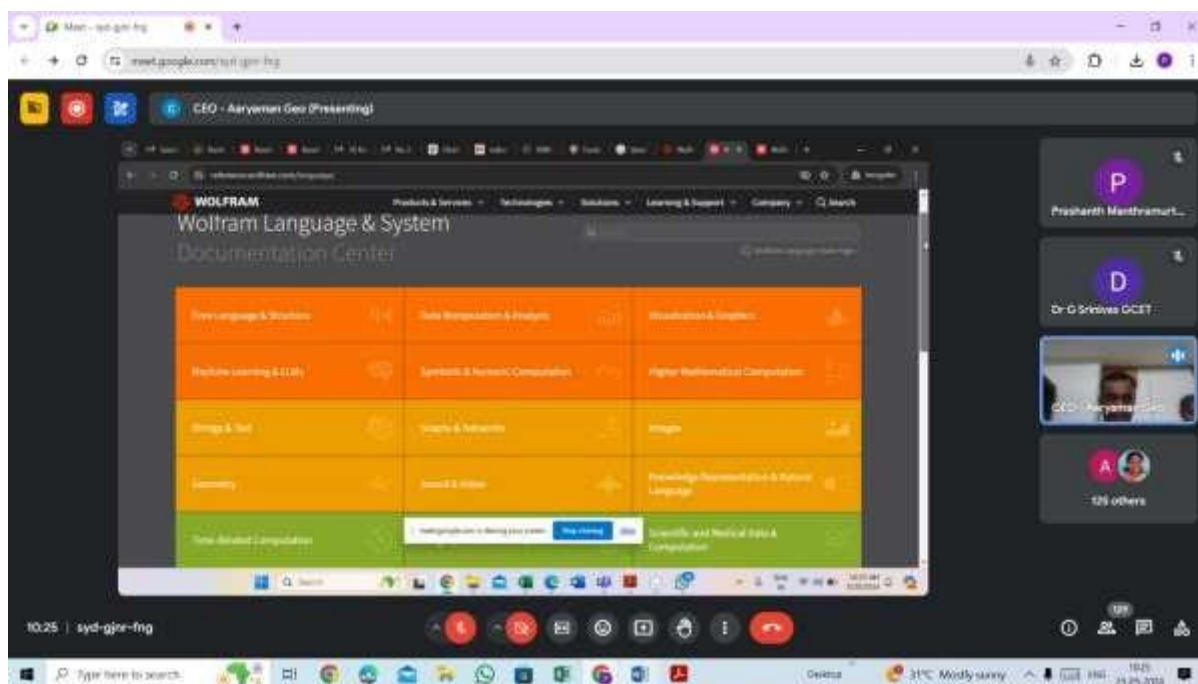


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Dr. Arayan, Resource Person addressed the gathering on the topic Wolfram Language & System.