



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society

LEAD TO ILLUMINATE



MATHEMATICS

2022-23



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FACULTY OF MATHEMATICS

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



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CERTIFICATE COURSE ON MATLAB

Name of the Event: Certificate course

Topic: MATLAB

Date: 4th - 20th August 2022

Venue: Computer Lab, LFDC

Participants: B.Sc. final year students

B.Sc. Participants: 105

The Faculty of Mathematics, Department of Physical Sciences organised a certificate course on “MATLAB” from August 4th to 8th, 2022, Computer Lab, LFDC. The resource person for this certificate course was Prof. K. Srinivasa Rao, HOD, Department of Mathematics, SCSVMV University, Kanchipuram, Tamil Nadu. Sir started a session with the definition of MATLAB and basic operations in MATLAB. He also explained in detail all the windows in MATLAB and gave an assignment to solve problems to understand the basic concepts in the MATLAB course, which include concepts like Arrays, Matrices and Linear Indexing. In addition to this, sir explained about Row operations, Column operations, removing rows and Columns, Swapping Rows and Columns and sorting, solutions for System equations, then he started basic introduction on Plotting which includes 2-D and 3-D plotting, tools available for manual plotting which can plot Cycloids, Epicycloids & Hypocycloids.



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Ms. P. Jayanthi, Reddy, Vice Principal, felicitating the resource person, Prof. K. Srinivasa Rao, for the certificate course on “MATLAB”



Ms. P. Jayanthi Reddy, Vice- Principal, LFDC Faculty from Dept. of Mathematics, Prof. K. Srinivasa Rao, resource person, is having a photo session with the MSCS III-year students



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Prof. K. Srinivasa Rao explaining how to use commands in MATLAB



Mr. M. Prashanth, Ms. T. Swapna, Mr. V. Naveen Kumar, with the resource person Prof. K. Srinivasa Rao,
Dept. of Mathematics, SCSVMV University, Kanchipuram, Tamil Nadu.



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INTERNATIONAL CONFERENCE

Name of the Event: International Conference

Topic: Mathematical Sciences and Emerging Applications in Technology

Date: 9th - 11th September 2022

Venue: Gitam Deemed to be University, Hyderabad

Participants: Mr. M. Prashanth

No. of Participants: 01

Mr. M. Prashanth, faculty of Mathematics attended the International Conference on Mathematical Sciences and Emerging Applications in Technology organised by Gitam School of Science, Hyderabad in association with the Andhra Pradesh and Telangana Society for Mathematical Sciences from September 9th to 11, 2022. The chief guest for the conference was Prof. Ch. Gopal Reddy, Vice-Chancellor, Mahatma Gandhi University, Nalgonda. He said that, in India, since ancient times zero was invented, and people used to write the Pachanga's predicting the eclipse with the exact time by using mathematical knowledge. In Astrology and Astronomy, Mathematical Applications are also involved. Prof. N. Kishan, President, APTSMS., spoke on the history of APTSMS and its activities. Prof. D. S. Rao, Pro vice-chancellor, GITAM, Hyderabad, delivered the welcome note felicitated the guests and released the conference souvenir.



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Prof. Ch. Gopal Reddy, Vice-Chancellor, Prof. N. Kishan, President, APTMS lightening the lamp in the conference.



Prof. N. Kishan, President, APTMS along with the members having a photo session in the conference.



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Writing Research Articles in Mathematics and Statistics

Name of the Event: Five Day National Level Online PDP

Topic: Writing Research Articles in Mathematics and Statistics

Date: 26th - 30th September 2022

Collaboration: PG and Research, Auxilium College, Gandhi Nagar, Vellore, Tamil Nadu

Venue/ Platform: Google Meet

Participants: Faculty from the various institutions

No. of Participants: 65

A Five-Day National Level Online PDP on “Writing Research Articles in Mathematics & Statistics” was jointly organised by the faculty of Mathematics, Little Flower Degree College, Uppal, Hyderabad, Telangana & PG, and Research Department of Mathematics, Auxilium College (Autonomous), Gandhi Nagar, Vellore, Tamil Nadu, from 26.09.2022 to 30.09.2022. The main objective of the program was to enhance the knowledge in writing articles and publishing them in journals.

The resource person for day one was Dr. Sunder Ram, HOD, Dept. of Mathematics, Chaitanya Deemed to be a university. He gave a lecture on Fluid Dynamics for Researchers by giving the differences between pure and applied Mathematics and mainly focusing on the areas of Mathematics which have a lot of scope in the field of research.

The resource person for day two was Dr. Ajay Semalty, University Swayam, Coordinator, HNB Garhwal University mainly focused on drafting a manuscript which is an essential aspect of research, and elucidated in detail the basic traits of writing research papers. The research process involves critical thinking, first draft, multiple drafts, etc., which plays a vital role in writing a good research article for the journal.

The resource person of the day three was Dr. Indrani Pramodh Kelkar, Subject Admin, Engineering & Science, Tata Consultancy Services, TCSION, Hyderabad. She gave a lecture on the topic “Mathematical Modelling for Research”. Her talk gave a deep insight into Mathematical modelling and its type with many real-world examples.



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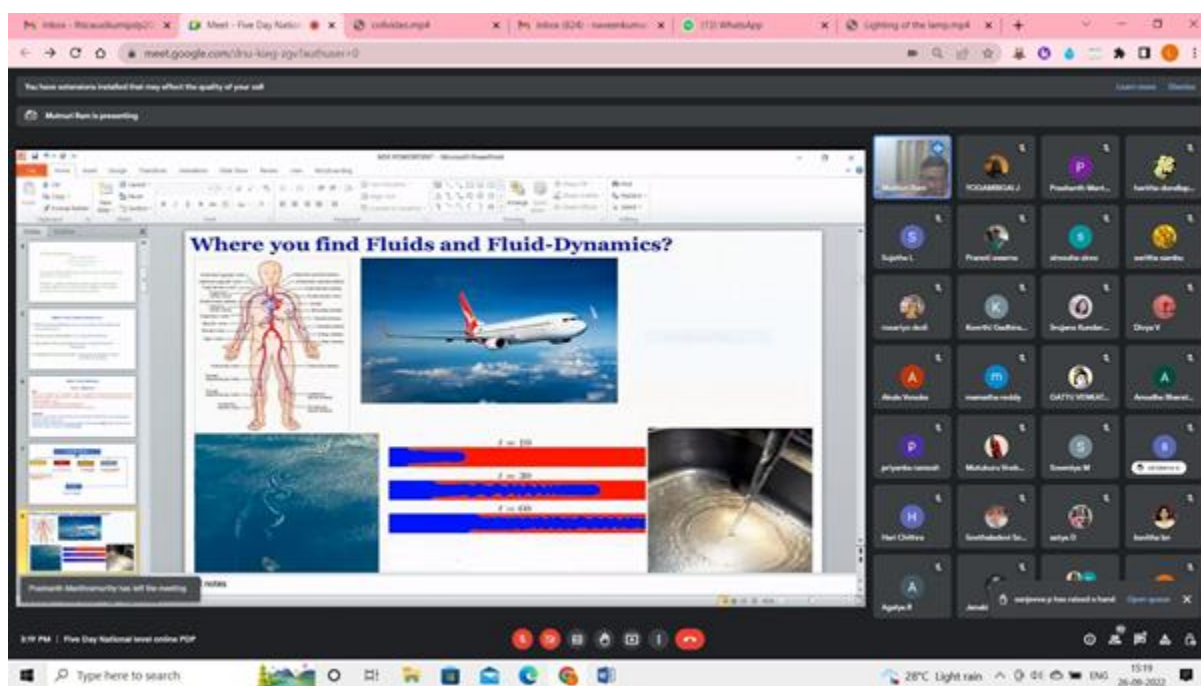
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The resource person of the day was V.V. Hara Gopal, Professor, Department of Statistics, Osmania University, Hyderabad, Telangana. He gave a lecture on the topic “Applications of Regression and Stochastic Modelling.” His lecture focused on Simple linear regression and Multiple linear regression.

The resource person of the day was Dr. Indra Rajasingh, Adjunct Professor of Mathematics, Saveetha School of Engineering, Chennai. She gave a lecture on the topic “Research Problems in Graph Theory” Her talk focussed on different types of graphs namely chemical graphs, molecular graphs, and different kinds of networks namely interconnection networks, butterfly networks, etc.,



Dr. M. Sunder Ram, HOD, Dept. of Mathematics delivering a lecture on “**Fluid Dynamics for Researchers**”
“in Five Day National Online PDP.

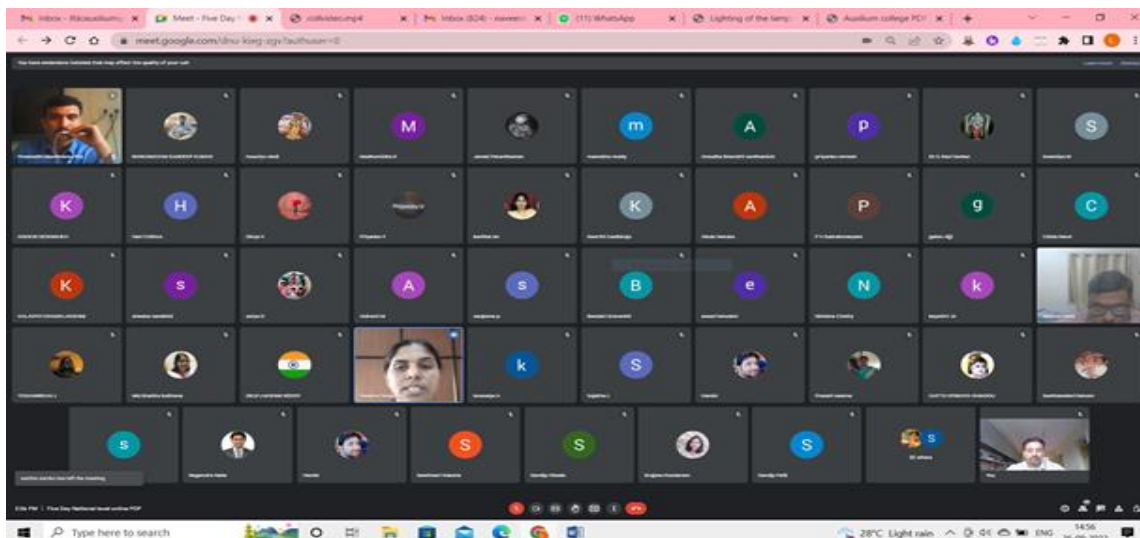


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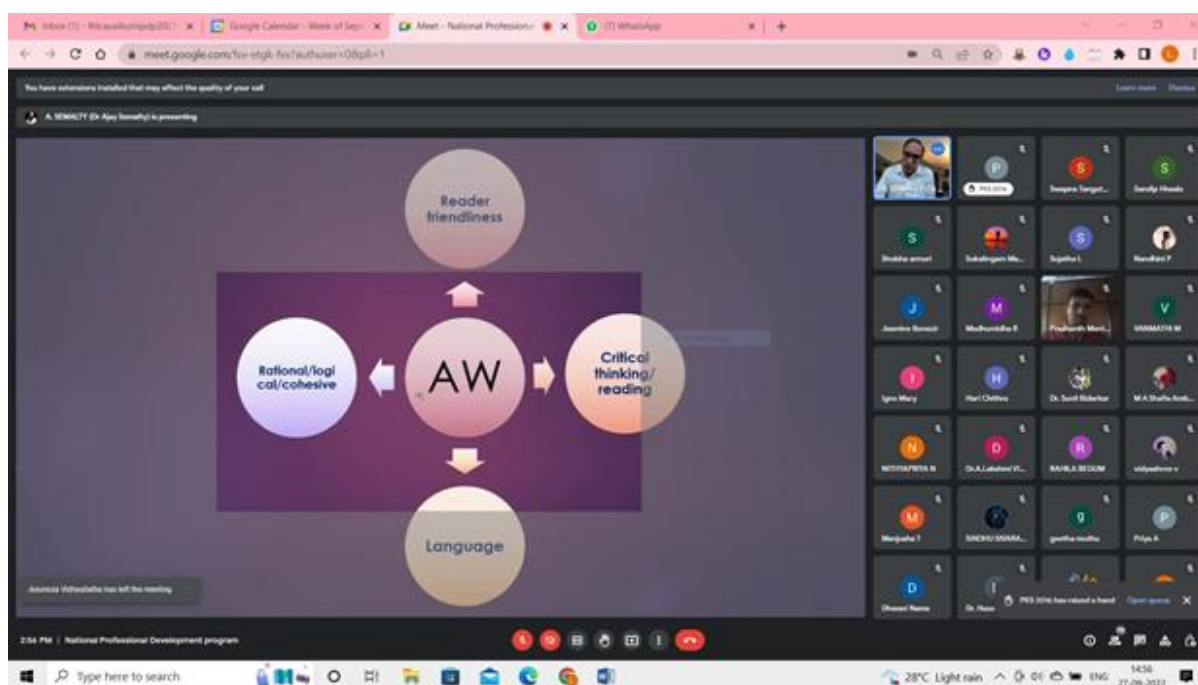
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Mr. M. Prashanth, Faculty of Mathematics welcoming the participants in the session and introducing the Resource Person Dr. M. Sunder Ram, HOD, Dept. of Mathematics in A Five-Day National Level Online Professional Development Program.



Dr. AJAY SEMALTY, University Swayam coordinator delivering a lecture on “**Nuances of Research Article Writing**” in Five Day National Online PDP.



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Dr. AJAY SEMALTY, University Swayam coordinator delivering a lecture on “**Flow of action in AW**”
“in Five Day National Online PDP.

Dr.
INDRANI PRAMOD KELKAR, Sub Admin in TCS delivering a lecture on **Mathematical Modelling process** in Five Day National Online PDP.



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PROF. V.V HARA GOPAL, (Retired) Dept. of Statistics delivering a lecture on “**Applications of Recursion and Stochastic Modelling**” in Five Day National Online PDP.

Dr. INDIRA RAJASINGH, delivering a lecture on “**Research Problems in Graph Theory**” in the Five Day National Online PDP.

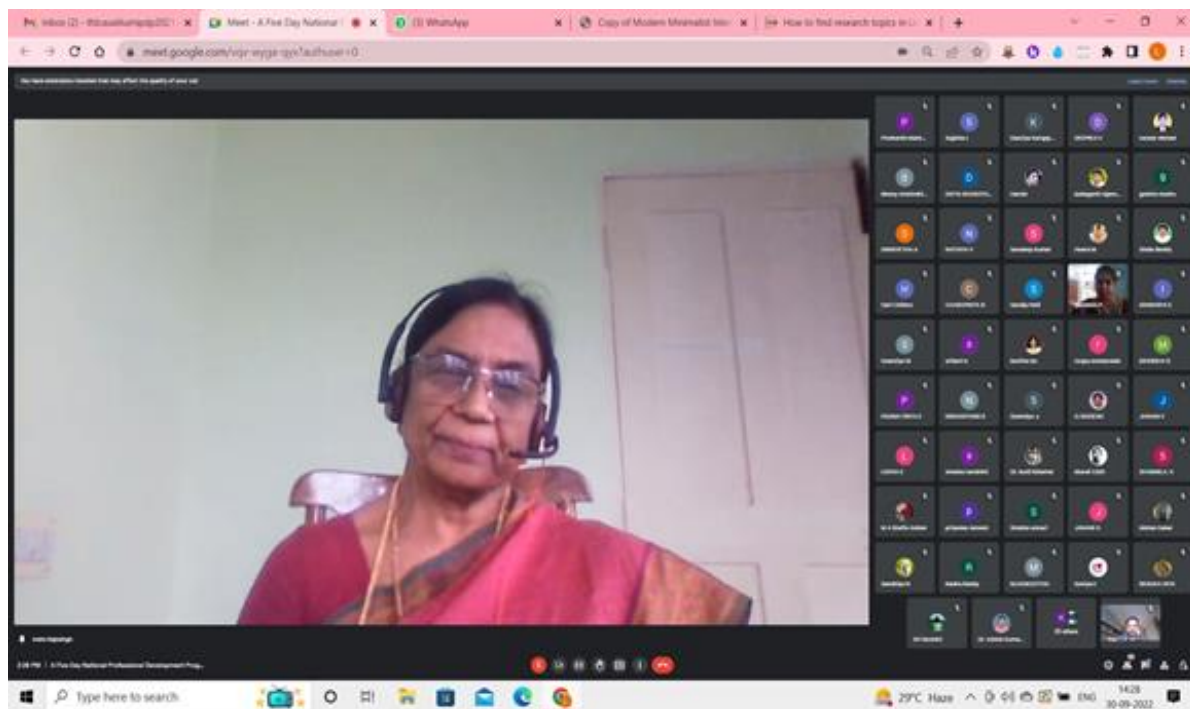


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Dr. INDIRA RAJASINGH, clarifying the queries in the questionnaire session in Five Day National Online PDP.



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TWO DAY FACULTY DEVELOPMENT PROGRAMME
ON
MATHEMATICAL AND COMPUTATIONAL FLUID DYNAMICS
USING MATLAB

Name of the Event: Two Day Faculty Development Program

Topic: Mathematical and Computational Fluid dynamics using MATLAB

Date: 9th - 10th November 2022

Venue: Aurora Degree & PG college, Hyderabad.

Participants: Mr. M Prashanth, Ms. T. Swapna

No. of Participants: 02

Mr. M. Prashanth, Mrs. T. Swapna faculty of Mathematics participated in a two-day Faculty Development Program on Mathematical & Computational Fluid Dynamics using MATLAB. The speaker for the first day was Prof. N. Kishan, Head, Department of Mathematics, Osmania University, Hyderabad. He explained the basics of Fluid Dynamics & Boundary Layer Equations and how to convert the partial differential equations to ordinary differential equations by using similarity transformations.

The speaker for the second session was Prof. K. Maruthi Prasad, Department of Mathematics, Gitam University, Hyderabad. He explained different methods of solutions of PDE in Fluid Dynamics, Like Power Series Method, Perturbation Methods, Adomian Decomposition Method, HAM (Homotopy Analysis Method) etc.

The last Session of the first-day speaker was Prof. K. Srinivasa Rao, Head Department of Mathematics, SCSVMV, Kanchipuram, Tamil Nadu. He explained the basics of MATLAB and also gave some examples. The second-day sir explained 2-D Plotting, 3-D Plotting, Arrays and MATLAB programming. Finally, Sir also explained how to solve second-order ordinary differential equations by using MATLAB code.



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Prof. N. Kishan, Dept. of Mathematics, addressing the audience in Two Day Faculty Development program



Mr. M. Prashanth, Faculty of Mathematics receiving the certificate from Prof. K. Srinivas Rao, HOD Dept. of Mathematics, SCSVMV, Kanchipuram, Tamil Nadu.



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FIELD TRIP TO BIRLA PLANETARIUM

Name of the Event: Educational Field Trip

Place: BIRLA PLANETARIUM

Date: 16th November 2022

Venue: Birla Planetarium, Hyderabad.

Participants: B.Sc. Second, Final year students

No. of Participants: 100

The Faculty of Mathematics organised an Educational Field trip to Birla Planetarium for the B.Sc. Second, Final year students on 16th November 2022. It was an enlightening experience for the students. In the first session students watched the video regarding the Solar System, Galaxy of stars in space, Kalpurush of the stars which was recognized by our ancient scientists and Magenta, a group of stars dazzling and forming the shapes in the space. They also showed about the planet Mars and the chance of existing life on the planet Mars. The videos were outstanding and very informative for the students to improve their knowledge.

In the next session the students visited the museum in which they saw various experiments, machines taking the bits and bytes by applying the Logic gates giving the results in identifying the geographical areas. Also, the launching of satellites and placing them in orbit.



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BSC Second and Final year students as a part of a field trip visiting the Birla Museum.



BSC second and final year students observing details of various satellites which were launched by INDIA in Birla planetarium.



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Ms. T. Swapna, Faculty of Mathematics, with B. Sc second and final year students at Birla Planetarium.



BSC Second and Final year students as a part of field trip visiting the Birla Museum.



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BSC Second and Final year students as a part of a field trip visiting the Birla Museum.





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THREE DAY INTERNATIONAL ONLINE WORKSHOP ON MATLAB Modelling of Physical Systems

Name of the Event: Three Day International Workshop

Topic: MATLAB Modelling of Physical Systems

Date: 26th - 28th November 2022

Resource Person: Dr.M. Balasu bramani, Subject Matter Expert Former professor,
Dila University

Platform: Google Meet.

Participants: Mr. M Prashanth, Ms. T. Swapna

No. of Participants: 02

Mr. M. Prashanth, Mrs. T. Swapna faculty of Mathematics participated in three days' international workshop on MATLAB Modelling of Physical Systems. The speaker for three days was Dr. M. Balasubramani, Subject Matter Expert, Former Prof. Dila University, Ethiopia. Sir started the session with the introduction of the MATLAB and the installation process about the software and basic programming commands in MATLAB. He also included data analysis, graphics programming, and real time examples of MATLAB. The queries were answered by the resource person in the session.



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Positive Affirmation Prayer

Dear God, I place my humble needs before you: My need to meet my responsibilities in the world. My need to use my God-given talents and abilities. My need to fulfil my place here on earth.

I pray for Your guidance now to show me the way to the perfect opportunity to do what I love, to do what I can do well, and that will fulfil my needs mentally, spiritually, and financially.

Help us to walk in faith as You show us the way!

I am praying for everyone in the universe, let them be safe, happy, peaceful & Healthy
Thank You GOD

18:59 | DAY 1- INSPIRE - MATLAB International Workshop

The Research Person Dr. M. Balasubramani, Subject Matter Expert, Former Prof. Dila University explaining about the Applications of MATLAB.

Applications of Matlab
MATrixLABoratory

Statistics and machine learning
Curve fitting
Mapping
Control systems
Aero space Design
Signal Processing
Deep learning
Financial Analysis
Text Analysis

Image Processing
Electric vehicle design
Audio Tool box
Electrical Network design
Power Converter Design
Robotics
Instrumentation System

19:09 | DAY 1- INSPIRE - MATLAB International Workshop



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GUEST LECTURE ON THE VEDIC MATHEMATICS

Name of the Event: Guest Lecture

Topic: Vedic Mathematics

Date: 29th March 2023

Resource Person: Ms. Nagasri Saradamba, Vedic instructor

Venue: Seminar Hall, LFDC

Participants: B.Sc. final year students

No. of Participants: 50

The faculty of Mathematics organised a Guest lecture on Vedic Mathematics - Short cut techniques to calculate the problems in a short time for the B.Sc. final year students on 29th March 2022. The speaker for the session was Ms. Nagasri Saradamba, Vedic instructor. The main objective of the lecture was to do the calculation easily and obtain accurate Solutions. She also gave a brief description about the decimal number system and gave tips to do simplification very quickly. She also focused on how to calculate cubes, squares, and square roots of the numbers by using only two to three steps and also the techniques which are very useful in competitive exams as it saves time and solutions can be obtained in a short time.



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Ms. Nagasri Saradambha explaining the techniques in Vedic Mathematics for the B.Sc. Final year students.





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Ms. Nagasri Saradambha answering to the queries asked by the students in the seminar.



Ms. P. Jayanthi, Vice principal felicitating Ms. Nagasri Saradambha for delivering her speech in the seminar on Vedic Mathematics.



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NATIONAL WORKSHOP ON NUMERICAL COMPUTATIONS BY USING MATLAB

Name of the Event: National Workshop

Topic: Numerical Computations by using MATLAB

Date: 11th May 2023

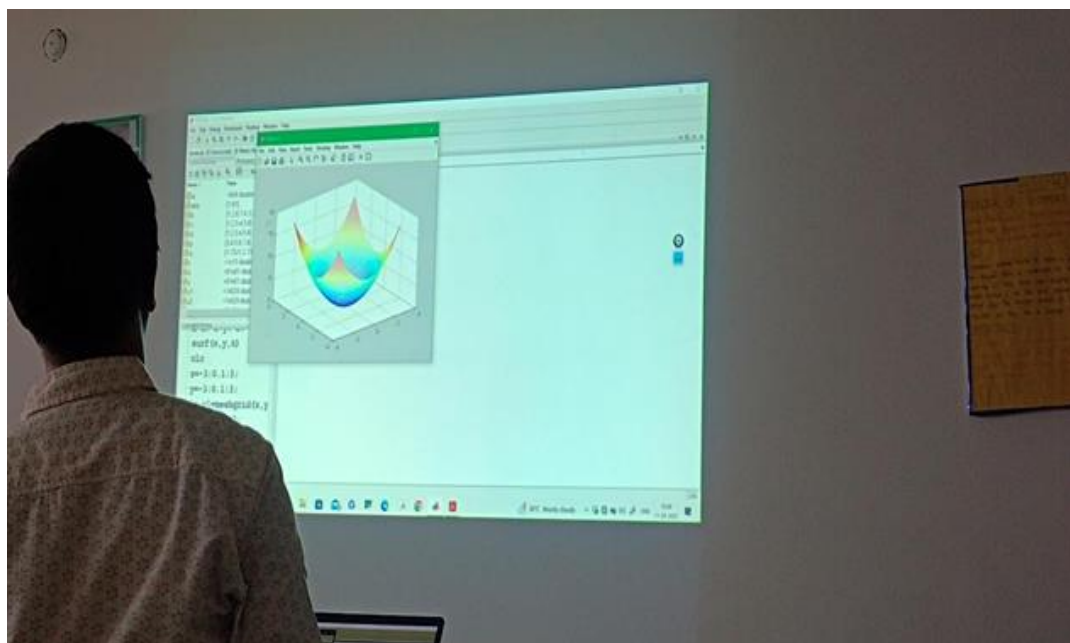
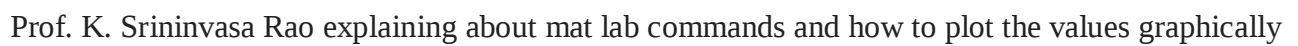
Resource Person: Dr. Srinivasa Rao

Venue: Auditorium, Sp College, Sec

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

No. of Participants: 02

Mr. M. Prashanth, Mr. V. Naveen Kumar, faculty of Mathematics, attended the National Workshop on Numerical Computations by using MATLAB was organised by SP College on 11th May 2023. The program started with an inaugural function graced by chief guest Prof. K. Ramesh Babu & Prof. K. Srinivasa Rao, a resource person of the workshop. First session of the workshop started with the brief introduction of the MATLAB by Prof. K. Srinivasa Rao explaining about the various commands associated with the functioning of MATLAB. The speaker explained how to initiate the values to the variables and the arrays and matrices. He also discussed the addition of the Matrices and multiplication of symmetric and non-symmetric matrices. Sir also explained how to plot the values of various functions such as a sine curve, cosine curve, $\sin x/x$, and Asteroid functions and how to view them diagrammatically. The last session of the workshop was ended by the valedictory function to the resource person and the participation certificates were distributed to the participants.





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Mr. Prashanth, HOD, faculty of Mathematics receiving the participation certificate from vice principal Dr. Amarnatha Sharma and the resource person of the session Prof. K. Srinivasa Rao.



Mr. V. Naveen Kumar, Faculty of Mathematics receiving the participation certificate from vice principal Dr. Amarnatha Sharma and the resource person of the session Prof. K. Srinivasa Rao