



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

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LEAD TO ILLUMINATE



MATHEMATICS
2021-22



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DEPARTMENT OF MATHEMATICS

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



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INDEX FOR THE ACADEMIC YEAR 2021-22

S.NO	DATE	NAME OF THE EVENT	VENUE	NO OF PARTICIPANTS
1.	20-10-2021 to 30-10-2021	TEN DAY NATIONAL WORKSHOP – MATLAB	ZOOM	01
2.	29-10-2021	SEMINAR- RIEMANN INTEGRATION	GOOGLE MEET	94
3	18-11-2021 to 27-11-2021	NATIONAL-LEVEL ONLINE PROFESSIONAL DEVELOPMENT PROGRAM ON SCILAB	GOOGLE MEET	03
4	29-11-2021	ONE-DAY WEBINAR ON APPLICATION OF MATHEMATICS USING MAPLE	GOOGLE MEET	81
5	19-12-2021 & 20-12-2021	NATIONAL SEMINAR ON NATIONAL MATHEMATICS DAY	OSMANIA UNIVERSITY	05
6	21-12-2021	RAMANUJAN MATH LEAGUE	SEMINAR HALL	82
7	22-12-2021	SEMINAR ON APPLICATIONS OF DIFFERENTIAL EQUATIONS USING EIGEN VALUES	MONTFORT HALL	93
8	29-01-2022	ONLINE SEMINAR – MATRICES AND ITS APPLICATIONS	GOOGLE MEET	115
9	12-03-2022 to 14-03-2022	INTERNATIONAL CONFERENCE ON MATHEMATICS AND ITS RELEVANCE TO SCIENCE AND ENGINEERING	SEMINAR HALL O U	01
10	25-06-2022 & 26-06-2022	INTERNATIONAL SEMINAR ON RECENT TRENDS IN MULTI DISCIPLINARY RESEARCH OF PRIMARY AND SECONDARY DATA	RAMAIAH FOUNDATION, BANGALORE	05



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TEN DAYS NATIONAL WORKSHOP ON MATLAB

Name of the Event: Ten Days National Workshop

Topic: MATLAB

Date: 20th to 30th October 2021

Platform: Zoom Meeting

Resource Person:

Dr. Natesan Srinivasan, Professor, Department of Mathematics, IIT Guwahati

Dr. Tanay Saha, Asst. Professor, Department of Computer Science, ITER

Dr. Sateesh Kumar Deevi, Associate Professor, Department of Mathematics, KL University

Participants: Mr.M. Prashanth

No. of Participants: 01

The Department of Mathematics and Statistics of Bhavan's Vivekananda College conducted a 10-day national Workshop on MATLAB. Mr. M. Prashanth, Faculty of Mathematics attended the workshop from 20th to 30th October 2021. The resource persons for the session were Dr. Natesan Srinivasan, Professor, Department of Mathematics, IIT Guwahati on the basis of MATLAB, Dr. Tanay Saha, Asst. Professor, Department of Computer Science, ITER on Numerical Analysis using MATLAB, Dr. Sateesh Kumar Deevi, Associate professor, Department of Mathematics, KL University on Linear Algebra using MATLAB. The main objective of the workshop is to impart knowledge of MATLAB to the participants so that they can effectively use MATLAB to analyze the data and apply numerical methods to solve the problems. In this session, the topics discussed were Introduction to MATLAB, basic operations, plotting and different types of plotting, image processing, solving differential equations with given conditions, dot product, cross product of vectors, gradient, Numerical Analysis using MATLAB, divergence, curl, integration, Linear algebra- solving linear systems of equations, Eigenvalues and Eigenvectors.

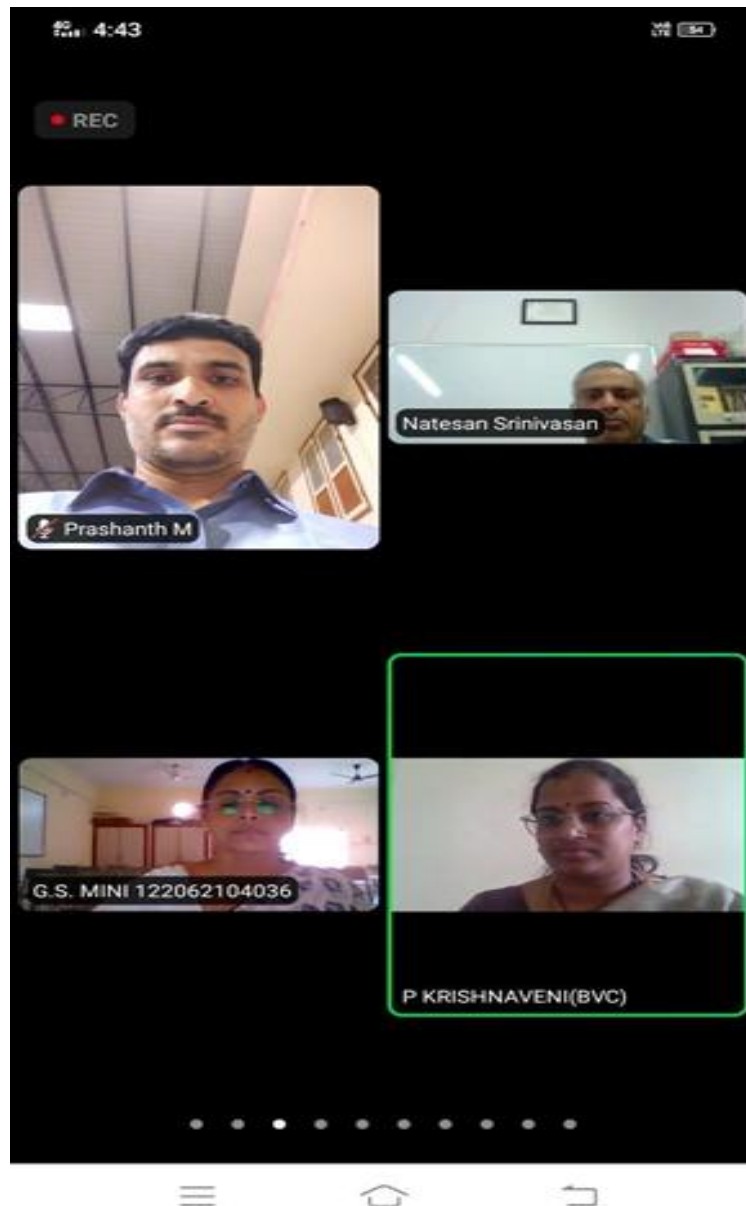


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Mr. M Prashanth attending the National Workshop on MATLAB by online ZOOM meeting



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SEMINAR OF RIEMANN INTEGRATION

Name of the Event: Online Seminar

Topic: Riemann Integration

Date: 29th October 2021

Venue: Montfort Hall, LFDC

Resource Person: Dr. K. Vijaya Lakshmi, Assistant Professor, Loyola Academy,
Alwal, Hyderabad.

Participants: B.Sc. Second year

No. of Participants: 94

A Seminar on the topic “Riemann Integration” for the B.Sc. Second year Electronics, Physics, Statistics, Chemistry students, on 29th October 2021 in Montfort Hall was organised. The main objective of the program is to make students aware of the basic concepts of Real Analysis such as interval, Bounded sets, Supremum, Infimum, Convergent and divergent series and nested intervals. The session was started by seeking the blessing of almighty God. The B.Sc. MPC second year student Sk. Riyana introduced the speaker Dr. K. Vijaya Laxmi. Madam started the session by explaining the basics of real numbers with examples. She explained about Partition, Sub Intervals, Tag, Lower & Upper Riemann Sums and integrals, also stressed on the applications of Riemann Integration. She also explained Necessary & Sufficient conditions for Integrality. The session ended by clarifying the doubts of the students.



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Dr. K. Vijaya Lakshmi, Resource person for the online Webinar on Riemann Integration addressed the second-year students in the session.



Dr. K. Vijaya Lakshmi, explaining the concepts of Riemann Integration to the second-year students

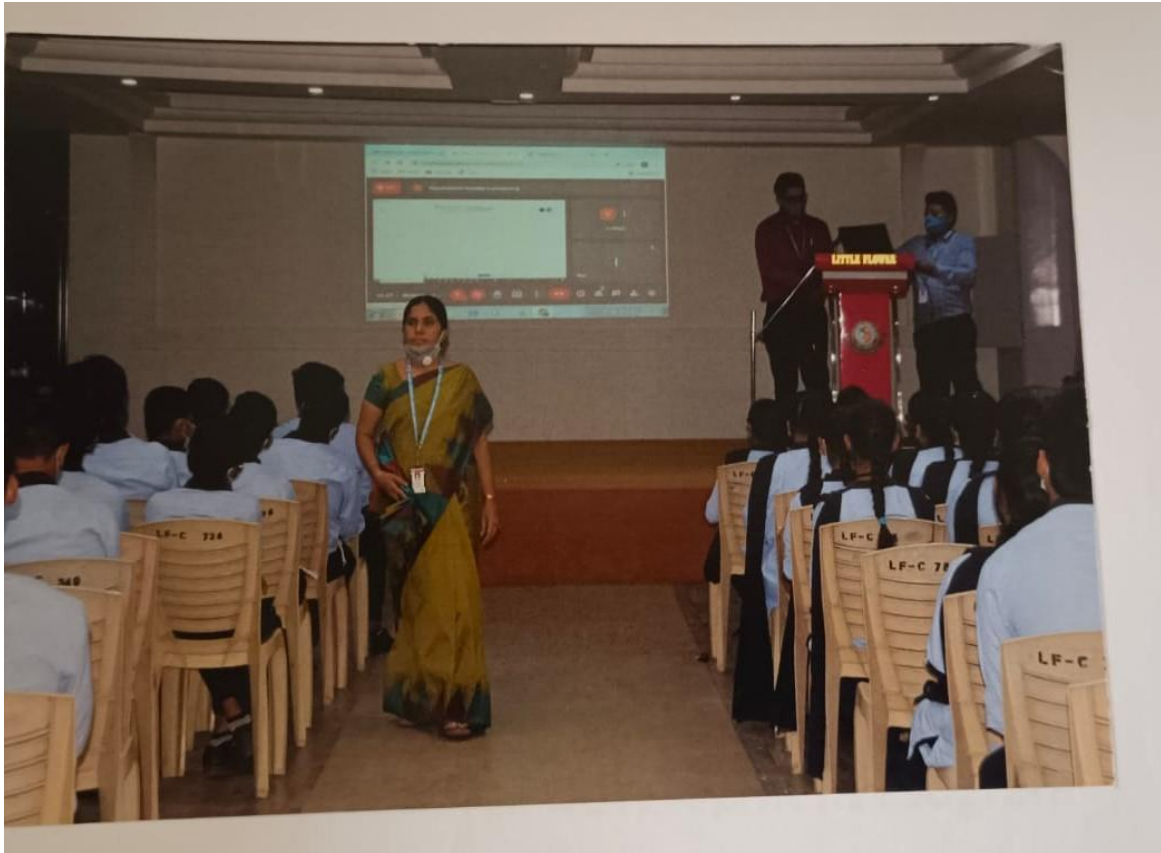


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Ms. T. Swapna, Faculty, participating in the webinar on Riemann Integration along with the students



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NATIONAL LEVEL ONLINE PROFESSIONAL DEVELOPMENT PROGRAM ON SCILAB

Name of the Event: National Level Professional Development Program

Topic: SCILAB

Date: 18th to 27th November 2021

Platform: Google Meet

Collaboration: IIT BOMBAY SPOKEN TUTORIALS

Participants: Mr Prashanth, Ms Swapna, Mr Naveen Kumar

No. of Participants: 03

The Department of Electronics and Physics organized an online professional Development program on SCILAB in collaboration with IIT Bombay Tutorials from 18th November – 27th November 2021. The main objective of this PDP is to help the participants understand the basics of Scilab which is an open-source software, a cross-platform numerical computational package, and a numerically oriented high-level language. The orientation program was conducted on 18th November to explain to participants how to download the course material from IIT Bombay tutorial and download Scilab. At the end of the course, the exam was conducted online by IIT Bombay tutorials. The Zoom link has been shared with the registered participants. The exam link is mailed to the registered mail ID. All the participants who scored 40 percent and above were awarded the certificates. The certificates were sent to their registered email as soon as they qualified for the exam. 10 participants qualified in the exam.

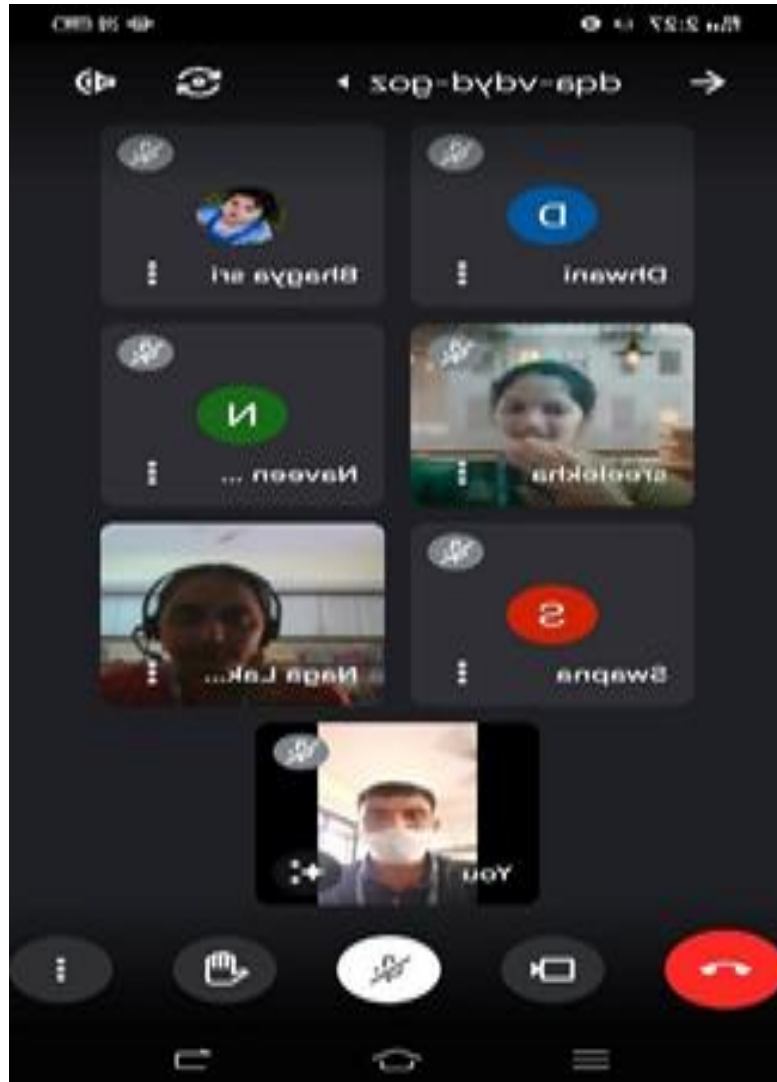


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Mr. M. Prashanth attending the professional Development Program on SCILAB

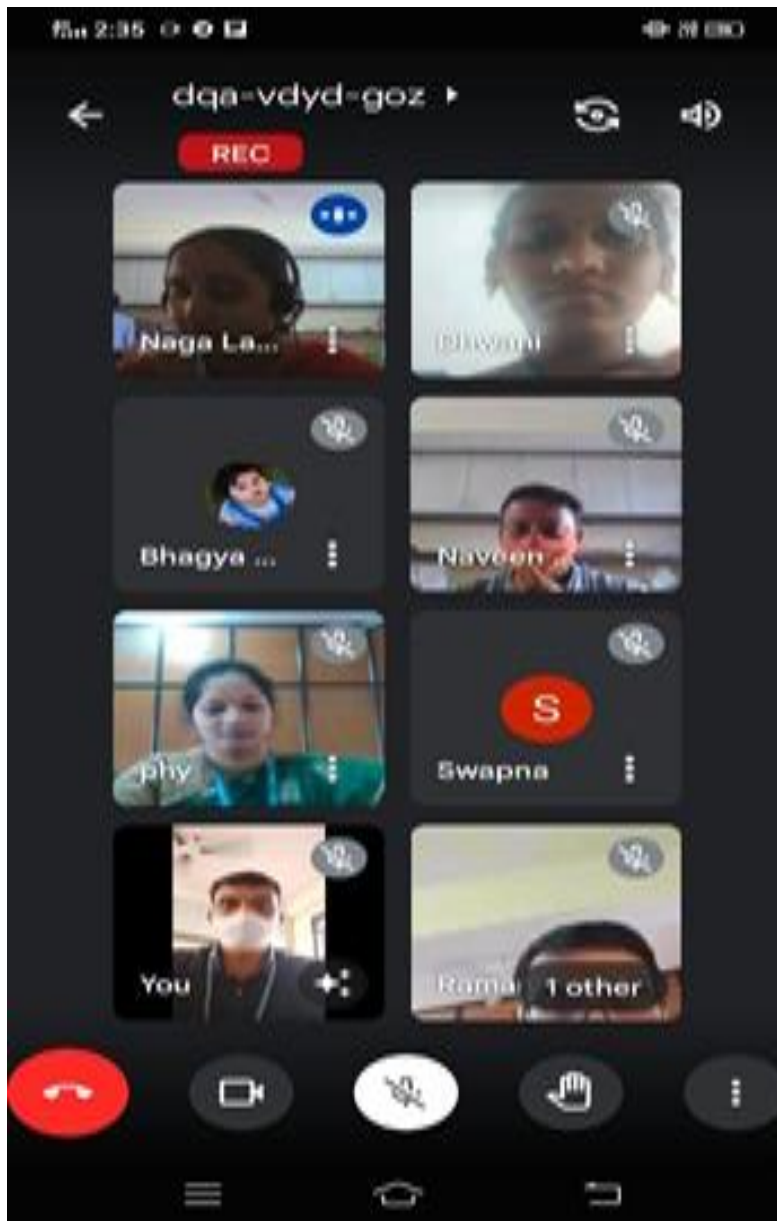


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Mr. V. Naveen Kumar, Ms. T. Swapna attending the professional Development Program on SCILAB



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A WEBINAR ON APPLICATIONS OF MATHEMATICS BY USING MAPLE

Name of the Event: Webinar

Topic: Application of Mathematics by using MAPLE

Date: 29th November 2021

Platform: Google Meet

Resource Person: Prof. Kalidass, Department of Mathematics, Karpagam.

Participants: B.Sc. Second Year Students

No. of Participants: 81

The Department of Mathematics organized a webinar on Applications of Mathematics by using MATLAB on 29th November 2021 in hybrid mode for the B.Sc. second-year students. The main objective of the webinar is to make students aware of MAPLE SOFTWARE which is the best Mathematical Tool. The session was started by seeking the blessing of almighty God and BSc MPC second-year student. Swetha introduced the speaker Prof. K. Kalidass. Sir started the session by explaining the features of MAPLE software. He explained how to solve problems by using MAPLE software. He stressed the differences between MAPLE and MATLAB, and the applications of MAPLE. He explained about plotting 2D & 3D graphs in the system of Linear Equations.



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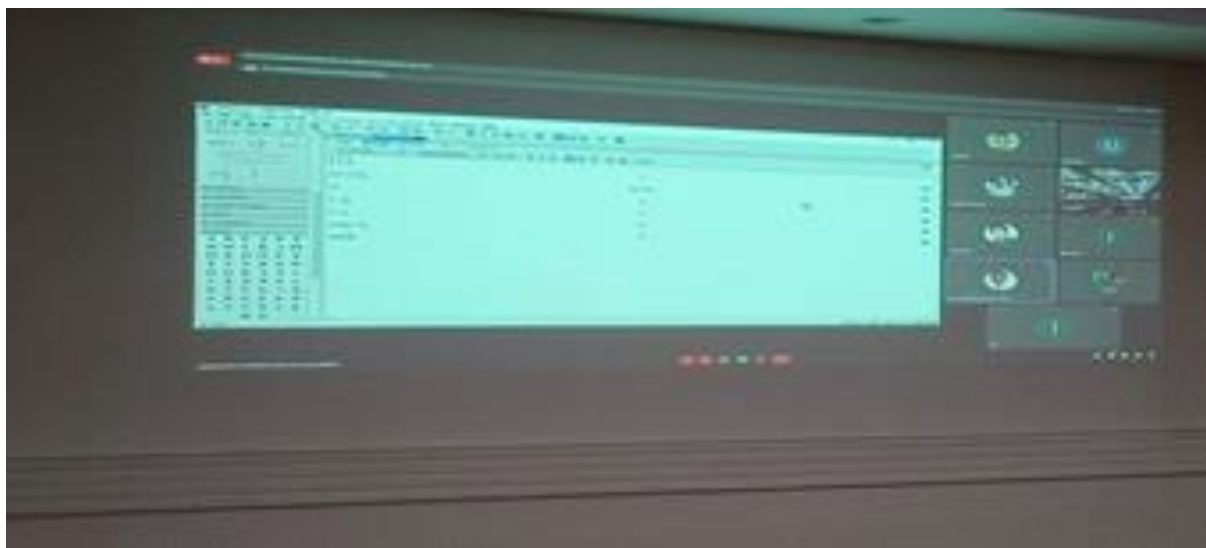
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BSc. Second year students attending seminar on Applications of Mathematics by using MATLAB



Prof. K. Kalidass, taking a session on Applications of MATLAB to the second-year students in a webinar.



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NATIONAL SEMINAR ON NATIONAL MATHEMATICS DAY

Name of the Event: National Seminar

Topic: National Mathematics Day

Date: 19th to 20th December 2021

Venue: Seminar Hall, Osmania University

Participants: B.Sc. Final year students

No. of Participants: 05

The Department of Mathematics, Osmania University has celebrated National Mathematics Day on 19th and 20th December, 2021. The National Seminar Was organised by the Department of Mathematics, Osmania University on the occasion of the 134th birth anniversary of Srinivasa Ramanujan. The objective of the seminar was to enhance the various topics in Mathematics to the students.



B.Sc. Second & Final year students of LFDC attending the National Seminar on National Mathematics Day at O.U.



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B.Sc. Second & Final year students of LFDC attending the National Seminar on National Mathematics Day at O.U.



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INTER - COLLEGIATE COMPETITIONS- RAMANUJAN MATH LEAGUE

Name of the Event: Inter Collegiate Competitions

Topic: Ramanujan Math League

Date: 21th December 2021

Venue: Seminar Hall, LFDC

Participants: Students of various institutions

No. of Participants: 82

An Intercollegiate competition was organized in the memory of Ramanujan. The test was conducted on the topic of Geometry, Calculus, Trigonometry & Basic Mathematics. The main objective of the competition is to showcase student talent and apply logical skills in Mathematics. Students from various colleges participated in the event. Cash Prize was awarded to the winners.

Winners of the competition:

Asher Gervin Francis - (MSCS-III) -First Prize.

Mohd. Saif - (MSCS –III) –Second Prize.

S. Gopi - (MSCS-II) - Third Prize.



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Students from the various institutions participating in the Intra Collegiate Competition
RAMANUJAN MATH LEAGUE.





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SEMINAR ON APPLICATIONS OF DIFFERENTIAL EQUATIONS BY USING EIGENVALUES

Name of the Event: Seminar

Topic: Applications of Differential Equations by using Eigenvalues

Date: 22nd December 2021

Venue: Montfort Hall, LFDC

Resource Person: Dr. S. Prasanna Rani, HOD, Dept. of Mathematics, Government Degree College.

Participants: B.Sc. Final year students

No. of Participants: 93

The Department of Mathematics celebrated National Mathematics Day on the occasion of the 134th birth anniversary of Srinivasa Ramanujan. The Guest for this program was Dr. S Prasanna Rani, Assistant Professor, Head Dept. Of Mathematics, Government Degree College for Women, Begumpet. Ramanujan has been recognized as one of the greatest mathematicians of his time. The main objective of the program is to make students aware of the importance of Mathematics Day and also contributions made by Srinivasa Ramanujan. The program started with prayer and then Mr. M Prashanth, Head Dept. Of Mathematics introduced guests to the audience.

Dr. S Prasanna Rani, the guest speaker, commenced the session by discussing the life history of Srinivasa Ramanujan. In her speech, she highlighted Ramanujan's remarkable contributions to the field of Mathematics, his exceptional intuitive understanding of mathematics from a young age, and his initiation of mathematical theories and publication of his first paper in 1911. Additionally, she mentioned that Ramanujan became the second Indian to be elected as a Fellow of the prestigious Royal Society in 1918. GH Hardy, a renowned British Mathematician, served as Ramanujan's mentor at Cambridge and encouraged him to publish his discoveries in multiple papers.



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Dr. Prasanna Rani, Resource person addressing the students on National Mathematics Day in Montfort Hall at Little Flower Degree College



Rev. Bro. Vincent Reddy, Principal of LFDC felicitating the Resource Person Dr. Prasanna Rani on National Mathematics Day at LFDC.



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ONLINE SEMINAR ON MATRICES & ITS APPLICATIONS

Name of the Event: National Seminar

Topic: Matrices and its Applications

Date: 29th January 2022

Platform: Google Meet

Participants: BSc Second and Final year students

No. of participants: 115

The Department of Mathematics organized a webinar on Matrices and Its Applications. The resource for this program was Dr. Anil Kumar, Assistant Professor, Dept. of Mathematics, Anurag University. Venkatapur, Hyd. The objective of the program was to make the students analyse the importance of Matrices in real-life applications. The program was started by prayer and the session with the quotations of great Mathematicians. He stressed that 100 percent knowledge can be acquired in a subject with theory and practical application. He also explained about applications of Matrices in various areas like systems of linear equations, cryptography, computer graphics, Robotics, Animation, and how the matrices are used to encode and decode the messages by taking 2×2 matrices to $n \times n$ matrices.

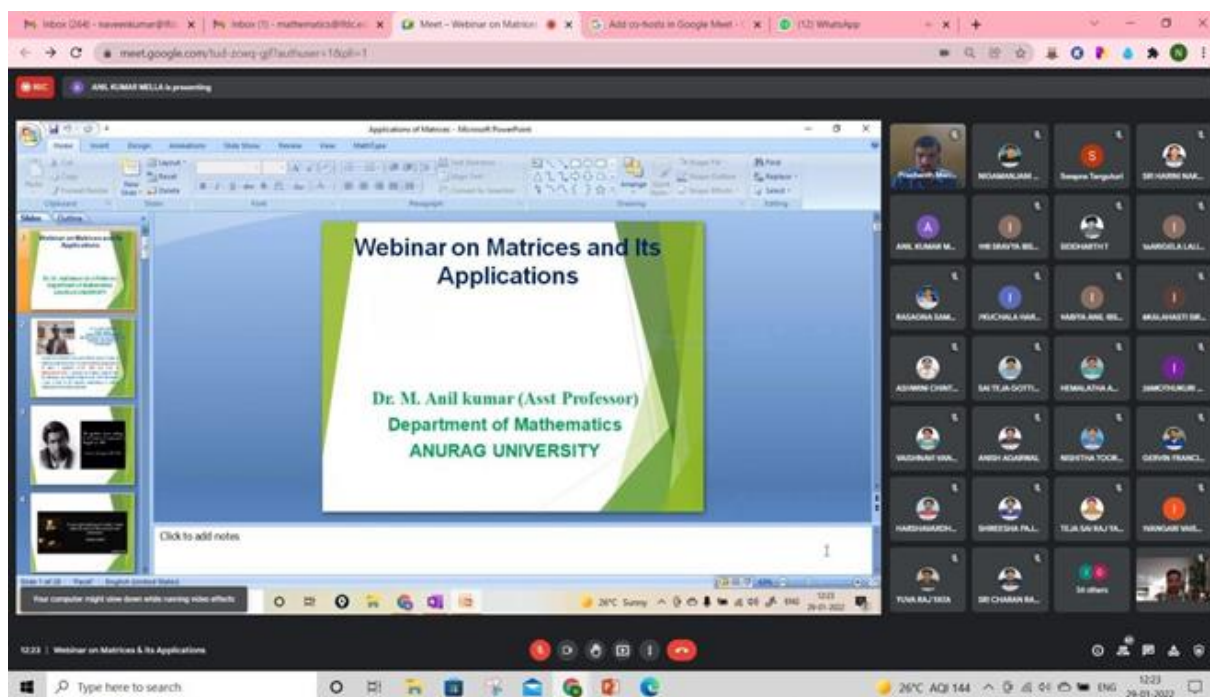


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Dr. Anil Kumar, Resource person addressing the participants in the online webinar on Matrices and its Applications



Dr. Anil Kumar explains about the contributions of Great Mathematician Srinivasa Ramanujan in the field of Mathematics.



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INTERNATIONAL CONFERENCE OF MATHEMATICS & ITS RELEVANCE TO SCIENCE AND ENGINEERING - 2022

Name of the Event: International Conference

Topic: Mathematics and its relevance to science and engineering

Date: 12th - 14th March 2022

Venue: Prof. Ram Reddy Centre of Distance Education, Osmania University

Participants: Mr. Prashanth

No. of Participants: 01

Mr. M. Prashanth, Faculty Department of Mathematics participated in XXX Congress of APTSMS -International Conference on Mathematics and its Relevance to Science and Engineering organized by the Department of Mathematics Osmania University, Hyderabad, from 12 - 14th March 2022. The conference was inaugurated by Chief Guest Prof. D. Ravinder, Hon'ble Vice-Chancellor, Osmania University & Guest of Honour Prof.E. Keshava Reddy, President, APTSMS, Prof. D. Bharathi, General Secretary, APTSMS. Prof. N. Kishan, Head, Department of Mathematics, O.U. was the convener for the conference with organized secretaries. The main objective of the conference was to make the research and faculty aware of the recent applications and innovations in the field of research in Mathematics.

At this conference, various faculties from other countries, and research scholars participated and also presented paper presentations. Mainly the program was conducted to enhance the field of Mathematics applications in science and technology. The conference was organised for three days where Ethiopia students also presented the paper on Fluid Dynamics. Finally, the valedictory function was organized at Department of Mathematics, O. U on 14th March, 2022. Dignitaries were felicitated with mementos and were given participation certificates to the participants.



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Prof. Kishan, HOD, Dept. of Mathematics addressing the audience in the International Conference on “Mathematics and its Relevance to the science and technology”



Prof. Kishan, HOD, Department of Mathematics, Prof. Surender Reddy, Prof. Harisingh Naik, members of APTMS felicitating Prof. A. Balakishan, Dean, Faculty of Science in the International conference on Mathematics and its Relevance to science and technology.



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INTERNATIONAL SEMINAR ON RECENT TRENDS IN MULTI DISCIPLINARY RESEARCH OF PRIMARY AND SECONDARY DATA

Name of the Event: International Seminar

Topic: Recent Trends in Multidisciplinary Research of Primary and secondary data

Topic: Growth of Electric Vehicles.

Date: 25th - 26th June 2022

Venue: M. S. Ramaiah Foundation, Ramaiah institute of Business studies

Participants: BSc. Final year students

No. of Participants: 05

M. S. Ramaiah Foundation, Ramaiah Institute of Business Studies organised an international webinar on Recent trends in Multidisciplinary Research of Primary and secondary data from 25th - 26th June 2022. Five students from BSc final year participated in the seminar and presented a paper on Growth of Electrical Vehicles Under the guidance of Ms. Swapna, Department of Mathematics. The main motive of the seminar was to make the students aware of the research methodology and improve their skills in presenting the paper on the concerned subjects in the seminar.

Jeffrey Wilson- MSCS III

Heena Kousar - MPC III

Mohammed Tajuddin - MSCS III

Sandeep Jerome Alfred - MECS III

N. Harshitha Reddy - MSCS III



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Final year students presenting the paper in the international seminar



Final year students having the photo session in the international seminar