



MATHPHILE



Volume 1

Annual Issue

DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE (AUTONOMOUS)

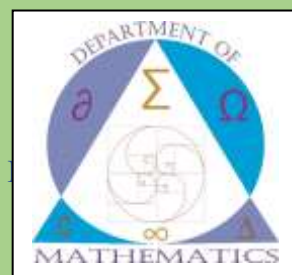
College with Potential for Excellence
(Linguistic Minority Institution)

PG AND RESEARCH DEPARTMENT OF MATHEMATICS

2021



NEWSLETTER *MATHPHILE*



Message

Department activities

Students activities

Upcoming Events

Students Corner

Articles

Editor in Chief: Prof. M. Devika

Associate Professor, D.G. Vaishnav College

Sub Editor: Dr. N. Jayanth Karthik

Associate Professor, D.G. Vaishnav College



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PRINCIPAL'S MESSAGE

I am extremely happy to bring out the News Letter 'MATHPHILE' released from the Post Graduate and Research Department of Mathematics. A News Letter is like a mirror which reflects the picture of all sorts of activities undertaken by a Department and develops writing skills among students in particular and teaching faculty in general.

I congratulate the Editorial Board of this Newsletter who have played wonderful role in accomplishing the task in record time. Also my heartfelt congratulations to staff members and students for their fruitful effort.

With Best Wishes

Dr. S. Santhosh Baboo

PRINCIPAL

SECRETARY'S MESSAGE

The Post Graduate and Research Department of Mathematics has been constantly striving to keep the students and faculty at par with growing knowledge through online webinars and workshops by eminent scholars from various domains. My congratulations to the team for the arduous task done most effectively.

The Editorial Board has done a commendable job in bringing out the Newsletter "MATHPHILE". This newsletter provides the overall contributions made by the department during the academic year 2020 – 2021. I offer my best wishes to the department for continuing the good work in upcoming years also.

Shri Ashok Kumar Mundra

SECRETARY

**Head of the Department Message**

Greetings!

The Department of Mathematics has recorded consistent improvement in its academic, research and placement performance. It offers a range of innovatively designed programs whose curricula are constantly updated to develop a deep understanding and enjoyment of Mathematics, to carry out original research, to become effective teachers and communicators and to prepare themselves for their future careers. In their curriculum, they are invigorated to take up projects and internship to supplement theoretical knowledge with practical experience.

I congratulate the Editorial Board of this Newsletter who have played wonderful role in accomplishing the task in record time. Also my heartfelt congratulations to staff members and students for their fruitful effort.

With Best Wishes

Prof. R. Venkataramanan
Associate Professor & Head
Post Graduate and Research Department



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POST GRADUATE AND RESEARCH DEPARTMENT OF MATHEMATICS

About the College

Dwaraka Doss Goverdhan Doss Vaishnav College, a linguistic minority institution established in the year 1964 with B.Sc Mathematics as first course. College was founded on the principles of Vaishnavism, with the sole purpose of imparting value based quality education and empowering the youth. The college has seen a phenomenal growth in terms of its infrastructure and revamped curriculum to cater to the specific needs of the student's community. Outstanding performance of the students in academics and extension activities has enabled the college to emerge one of the premier institutions of higher learning.

About the Department:

In the year of its inception, the college under the stewardship and the Principal of Shri T.Totadri Iyengar, offered an Undergraduate course in Mathematics along with Pre- University courses. The University of Madras upgraded the department to the postgraduate status in the year 1980. M.Phil course was started in the year 2001. The Post Graduate and Research Department of Mathematics, DG Vaishnav College, Chennai has been vigorously engaged in both research and teaching. The Department has energetic and dedicated faculty members who are actively involved in research areas like Complex Analysis, Number theory, Mathematical Analysis, Fuzzy sets, Fuzzy Optimization, Petrinets, Information Security, Differential equations, Wavelets and Numerical Methods.

Vision of the Department:



The vision of the department is to promote and support a comprehensive, innovative and dynamic learning environment to assist students in acquiring a conceptual understanding of the nature and structure of Mathematics, its processes and applications.

Prof. R. Venkataramanan

Head, PG and Research Department of Mathematics



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DEPARTMENT ACTIVITIES

CONFERENCES

JAI SHREE KRISHNA

National Conference on Mathematical Modelling with Differential Equations NCMME-2020

14th - 17th October 2020

ORGANISED BY
Post Graduate & Research Department of Mathematics
DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE (Autonomous)
Linguistic Minority Institution
College with Potential for Excellence
833, "Gokul Bagh" E.V.R. Periyar Salai,
Arumbakkam, Chennai – 600 106
Phone: 044-23635101

Day 1
Inauguration

Welcome Address: 9.30 am
Dr. Ashok Kumar Mondrag
Secretary, D.G. Vaidyan College

Publications: 9.40 am
Dr. S. Senthil Kumar
Principal, D.G. Vaidyan College, Chennai.

About the Conference: 9.50 am
Prof. R. Vasudevaramanan
Convener & Head
P.G. & Research Department of Mathematics
D.G. Vaidyan College, Chennai.

Invited Talk: 1- 10 am to 11 am
Topic: Better mathematical modelling by understanding differential equations
Dr. P.J. Sakthivel
Senior Professor, Department of Mathematics
CMMR (Research in Mathematics) Bangalore

Invited Talk: 11- 11.30 am to 12.30 pm
Topic: On the Solving Equations of Variations
Dr. A.N. Vasudeva Murthy
Professor, Department of Mathematics,
HFW, CMM Bangalore.

Invited Talk: 12- 2pm to 2 pm
Topic: Mathematical Models of Ordinary Differential Equations in Bioscience
Dr. Deepak Kumar
Professor, Department of Mathematics,
Faculty of Engineering & Technology,
Maulana Abul Kalam International Institute of Research & Studies, Faridkot.

Invited Talk: 3.30pm to 4.30 pm
Topic: Higher order Initial Value Problems
Dr. S. Senthil Kumar
Assistant Professor, Department of Mathematics
School of Advanced Studies, VIT Vellore

Day 2

Invited Talk: 10 am to 11 am
Topic: Modeling the Effect of Industrial Development on the Population of Foresty Resources Allowing Wildlife Species
Prof. Manjiv Agrawal
Department of Mathematics,
University of Lucknow, U.P., India

Invited Talk: 11- 11.30 am to 12.30 pm
Topic: A Stochastic Process in the form of a Class of Stochastic Boundary Value Problems
Dr. J. Jeyaraj
Department of Mathematics
N.I. Srinivasan, India

Invited Talk: 2pm to 3pm
Topic: Infectious Disease Modeling
Dr. S. Senthil Kumar
Assistant Professor in Mathematics,
Department of Basic Sciences & Humanities,
MPTAM, NAMIU, Chennai to be University,
Tamil Nadu

PAPER PRESENTATION
SESSION 1
3.30pm to 4.30 pm

Day 3

Invited Talk: 10 am to 11 am
Topic: Fractional Differential Equations and its Applications
Dr. S. Senthil Kumar
Professor & Head, Department of Mathematics,
MRCET International, Hyderabad,
Former Registrar, Gandhinagar Rural Institute
(Research in Mathematics), Gandhinagar (Sports),
Bhadrachalam, India.

Invited Talk: 11- 11.30 am to 12.30 pm
Topic: Mathematical Model (Bag) A. Role for Optimal Decision Making
Dr. Vign Kumar
Professor, Department of Mathematics,
Faculty of Engineering & Technology,
Maulana Abul Kalam International Institute of Research & Studies, (Research in Mathematics), Faridkot.

Invited Talk: 2pm to 3 pm
Topic: A Stochastic Process in the form of a Class of Stochastic Boundary Value Problems
Dr. Pragna Mishra
Assistant Professor, Department of Mathematics,
P.T. Bhanu Prasad University, Guntur, Guntur P.O. College,
Rajaji Park, Lucknow, India

PAPER PRESENTATION
SESSION 2
3.30pm to 4.30 pm



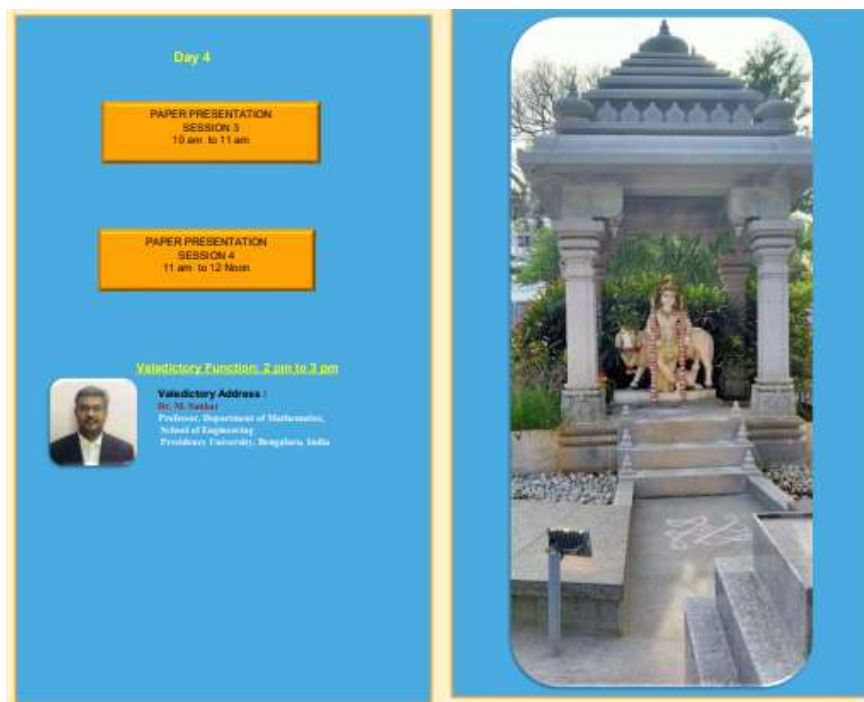
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➤ **National Conference on Mathematical Modelling with differential equations (Online) from 14 - 17 October, 2020.**

The Secretary of D.G. Vaishnav College, Shri. Ashok Kumar Mundra welcomed participants for this conference. The Presidential address was given by Dr. S. Santhosh Baboo, Principal, D.G.Vaishnav College. Convener & Head of the department of mathematics, Prof. R. Venkataramanan explained about the importance of this conference and the scope of the Mathematical modelling. There were five paper presentation session and concluded with valedictory address by Dr. Mani Sankar, Professor, Department of Mathematics, School of Engineering, Presidency University, Bangalore. The conference was attended by 265 Faculty members, 122 Research Scholars and 156 students.



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- UGC Sponsored Online National Conference on Analysis and its Applications
Focused on Fixed Point Theory- 24th - 25th February, 2021

JAI SHRI KRISHNA

National Conference on Analysis and its Applications
FOCUSED ON FIXED POINT THEORY
NCAAFFPT - 2021
24th & 25th February 2021

ORGANIZED BY
Post Graduate & Research Department of Mathematics
DWARAKA DOSS GOVERDHAN DOSS VAISHNAV
COLLEGE (Autonomous)
Linguistic Minority Institution
College with Potential for Excellence
833, "Gokul Bagh" E.V.R. Periyar Salai,
Arumbakkam, Chennai – 600 106
Phone: 044-23635101

Day 1
Inauguration

Inaugural Address: 9.30 am
Shri Sashok Kumar Mundhra
Secretary, D.G. Vaishnav College, Chennai.

Presidential Address: 9.40 am
Dr. S. Santhosh Baboo
Principal, D.G. Vaishnav College, Chennai.

Welcome Address: 9.50 am
Prof. R. Venkataramanan
Convener & Head,
P.G. & Research Department of Mathematics,
D.G. Vaishnav College, Chennai.

Invited Talk I: 10 am to 11 am
Topic: An invitation to Fixed Point Theory
Dr. M. Muralidhar
Honorary Professor,
Department of Mathematics,
Sri Sathya Sai University, Tiruchirappalli.

Invited Talk II: 11.30 am to 12.30 pm
Topic: Existence and Convergence of Fixed Points
Dr. A. Ananthan
Assistant Professor, Department of Mathematics,
St. Joseph's College,
Tiruchirappalli.

Invited Talk III: 1 pm to 3 pm
Topic: Banach Fixed Point Theorem and Applications
Dr. Arif Sazman
Assistant Professor, Department of Mathematics,
Maxwell Rashmi International Institute of Research
& Studies, New Delhi.

Invited Talk IV: 3.30 pm to 4.30 pm
Topic: Some Recent Fixed-Point Theorems for
Monotone Mappings
Dr. Isher Uddin
Assistant Professor, Department of Mathematics
Jamia Millia Islamia, New Delhi

Day 2

Invited Talk V: 10 am to 11 am
Topic: Fixed Point Algorithms: Convergence,
Stability and Data Dependence and Applications
Dr. Javed Ali
Assistant Professor, Department of Mathematics,
Aligarh Muslim University, Aligarh.

Invited Talk VI: 11.00 am to 12.00 noon
Topic: Fixed point formulation of nonlinear
problems and applications
Dr. D.R. Sahu
Professor, Department of Mathematics
R. S. University, Raipur.

Invited Talk VII: 12.00 noon to 1.00 pm
Topic: Fixed Points of Certain Contraction
Maps in S-Metric Spaces
Dr. G.V. Ravindranadh Babu
Professor, Department of Mathematics,
Andhra University, Visakhapatnam.

Invited Talk VIII: 2.00 pm to 3.00 pm
Topic: Fixed Point of an Iterated Function System
(IFS)
Dr. S. Minirani
Associate Professor in Mathematics,
Department of Basic Sciences & Humanities,
MPSTME, NMIMS,
Deemed to be University, Mumbai.

PAPER PRESENTATION SESSION
3.30 pm to 4.30 pm

Valedictory Function 4.30 pm to 5.00 pm

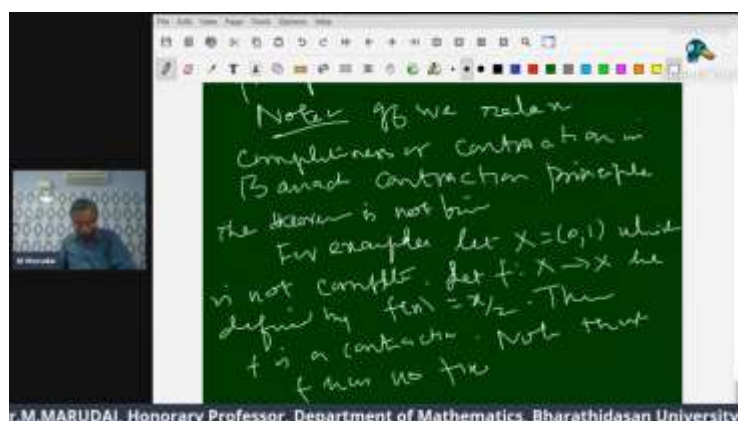
Valedictory Address:
Dr. Sunil Mathew
Assistant Professor,
Department of Mathematics,
NIT Calicut, Kerala.

Post Graduate and Research Department of Mathematics Conducted Two Days Virtual National Conference on Analysis and its Applications – Focused on Fixed Point Theory. The Conference started on 24th Feb, 2021 with Inaugural session and the presidential address was given by Dr. S. Santhosh Baboo, Principal, D.G.Vaishnav College. The Convenor of the conference and the Head of the Department of Mathematics, Prof.R.Venkataramanan delivered the Welcome Address followed by the overview of the conference delivered by Dr R. Sivaraman, Associate Professor, D.G. Vaishnav College. There were eight invited talks by Eminent Professor's from various Universities/Institutes across India. 156 participants, both faculties and research scholars from various institutes registered for the conference.

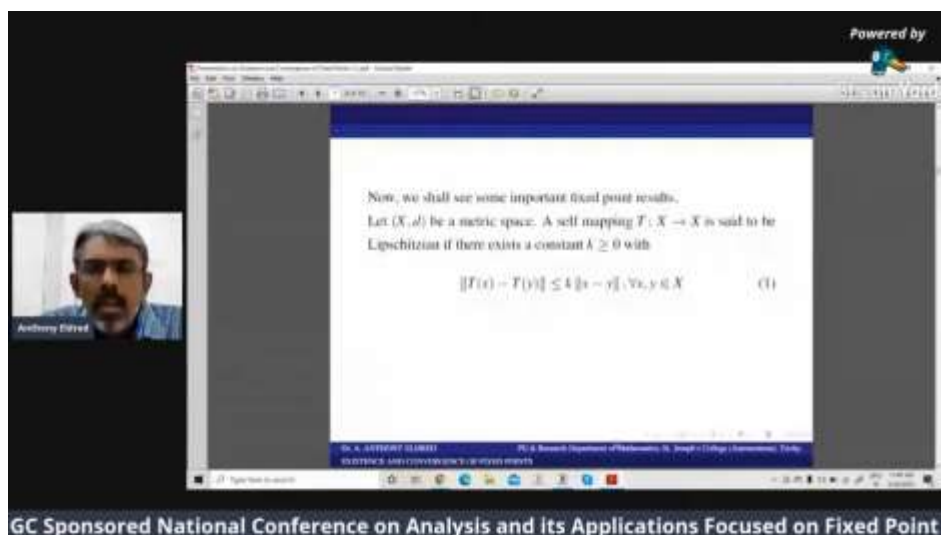


Day 1: 24.02.2021 (FN Session)

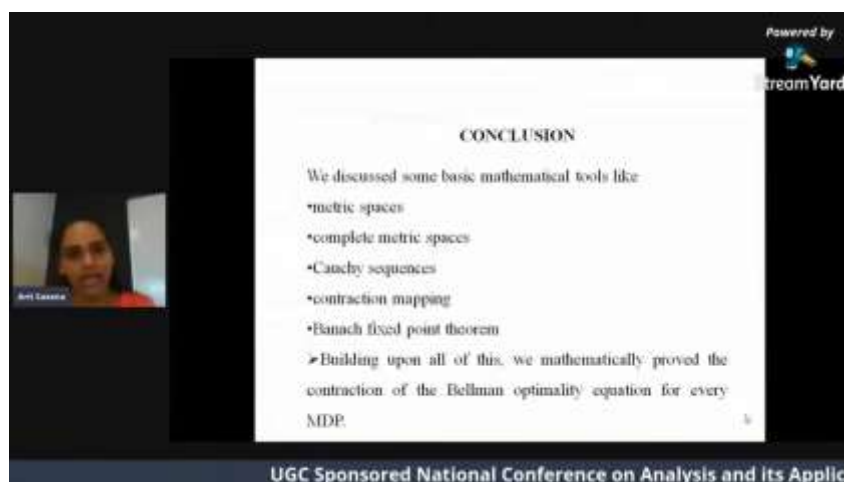
The Forenoon session of Day 1 had two talks. The first one is on “An Invitation to Fixed Point Theory” by Dr. M Marudai, Honorary Professor, Department of Mathematics, Bharathidasan University, Trichy.



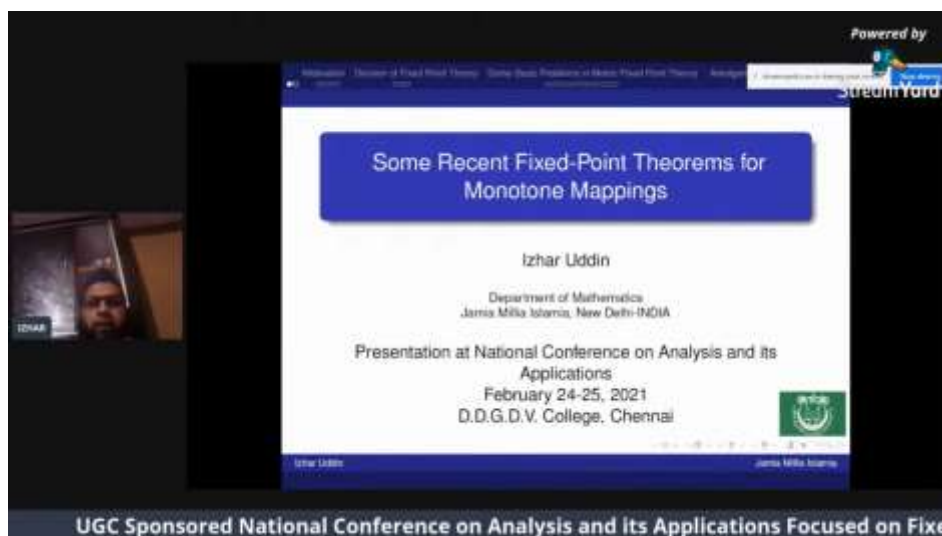
The second talk of forenoon session was given by Dr. A. Anthony Eldred, Assistant Professor, PG & Research Department of Mathematics, St. Joseph's College (Autonomous), Trichy, on "Existence and Convergence of Fixed Points".



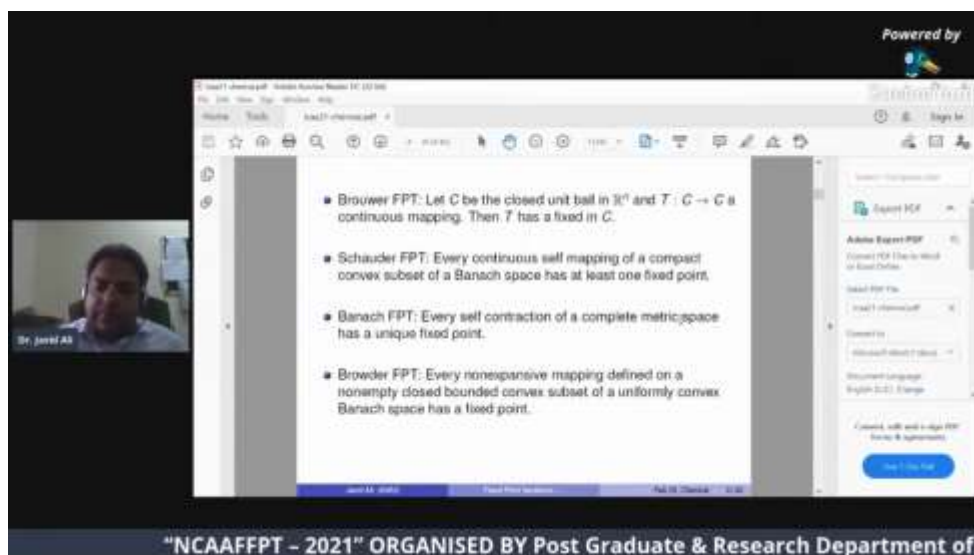
The first session of afternoon session was started with an invited talk on "Banach Fixed Point Theorem and Applications" by Dr. Arti Saxena, Assistant Professor, Department of Mathematics, Manav Rachna International Institute of Research and Studies, New Delhi.



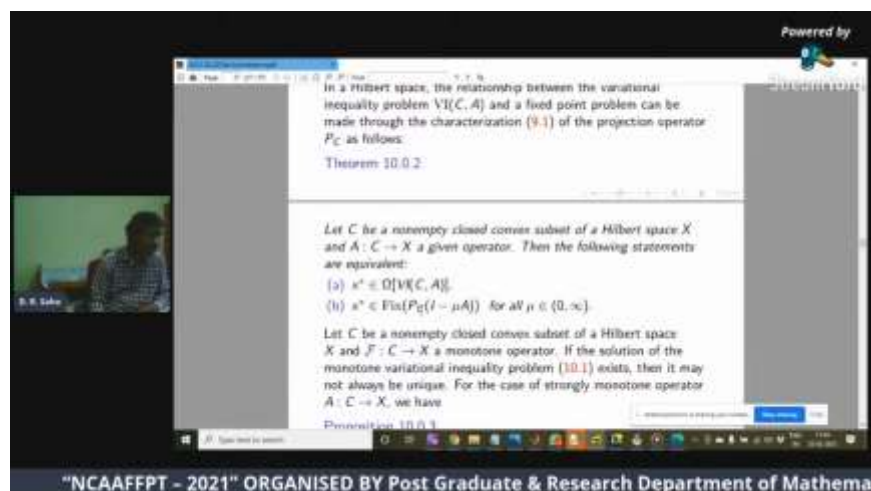
The last session lecture on Day 1, was delivered by Dr. Izhar Uddin, Assistant Professor, Department of Mathematics, Jamia Millia Islamia, New Delhi on "Some Recent Fixed-Point Theorems for Monotone Mappings".



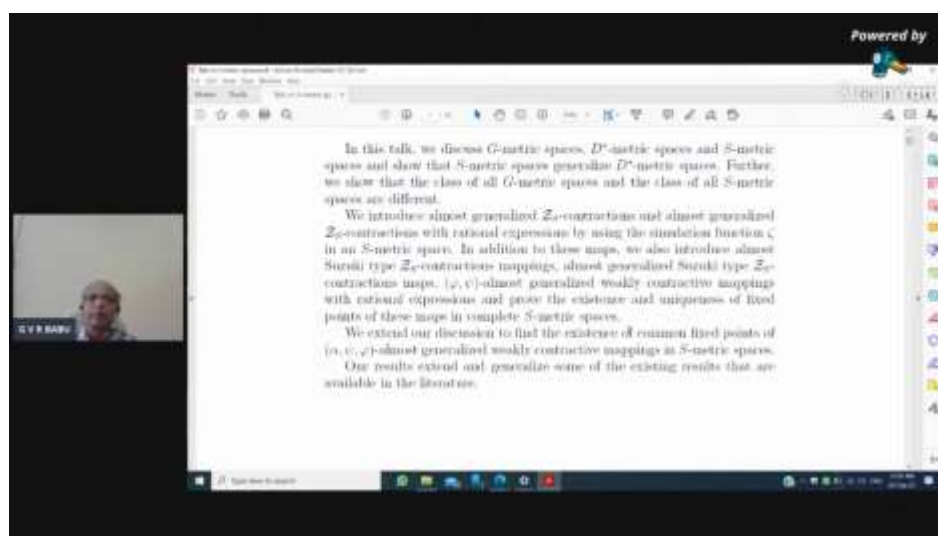
The second day of the conference started with a talk on “Fixed Point Algorithms: Convergence, Stability and Data Dependence and Applications” by Dr. Javed Ali, Assistant Professor, Department of Mathematics, Aligarh Muslim University, Aligarh.



Dr. D. R. Sahu, Professor, Department of Mathematics, R S University, Raipur, had given the invited talk of second session on “Fixed Point formulation of nonlinear problems and applications”



The afternoon session on Day 2 was given by Dr. G. V. Ravindranadh Babu, Professor, Department of Mathematics, Andhra University, Visakhapatnam on "Fixed Points of certain contraction maps in S-metric Spaces".



The last invited talk was delivered by Dr. S. Minirani, Associate Professor, Department of Basic Sciences & Humanities, MPSTME, NMIMS, Mumbai on "Fixed Point of an Iterated Function Systems (IFS)".



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The screenshot shows a Zoom meeting interface. On the left, there is a small video feed of a woman, Dr. S. Minirani. The main part of the screen displays a presentation slide from NMIMS. The slide has a red header with the NMIMS logo and the text 'Powered by StreamYard'. The content of the slide is as follows:

Definition (Iterated function system): Let $T = \{f_1, f_2, \dots, f_N\}$ denote a set of N contraction mappings on a closed and bounded subset $D \subset \mathbb{R}^n$, i.e., for each $k \in \{1, 2, \dots, N\}$, $f_k : D \rightarrow D$ and there exists a constant $0 \leq C_k < 1$ such that

$$d(f_k(x), f_k(y)) \leq C_k d(x, y) \quad \text{for all } x, y \in D. \quad (1)$$

Associated with this set of contraction mappings is the "parallel set-valued mapping" F , defined as follows. For any subset $S \subset D$,

$$F(S) = \bigcup_{k=1}^N f_k(S), \quad (2)$$

where the f_k denotes the set-valued mappings associated with the mappings f_k , i.e., for any set $S \subset D$,

$$f_k(S) = \{f_k(x) \mid x \in S\} \subset D. \quad (3)$$

The set of maps F with parallel operator F define an N -map iterated function system on the set $D \subset \mathbb{R}^n$.

At the bottom of the slide, it says '25 February 2021', 'NCAM/FPT 2021', and 'Dr. MINIRANI S.'. Below the slide, a caption reads: 'Dr. S. Minirani, Associate Professor in Mathematics, Department of Basic Sciences & Humanities, NMIMS Deemed to be University, Mumbai'.

The Paper presentation session had 8 papers and the list is given below.

1. M. Joseph Jawahar Peppy – Noor Iterative Scheme for Generalized Non Expansive Mapping
2. S. Jone Jayashree – Data dependence for Ishikawa Iteration on Hyperbolic Spaces
3. Anjali – Some Fixed Point Theorems with PPF dependence in Banach Space
4. Mallalah . K – A fixed point theorem of Multiplicative Metric space using EA –like property
5. G. S. Vigneshwari – Operator and Dynamical System in Analytic Lipschitz
6. D. Rejin Rose – Generalized forward $(u, u)(l)$ – Difference Operator and some Applications in Algebra
7. A. M. Anto, G. S. Rekha, Madhukar Mallayya – Inverse Quintic Spline Parabolic Runout Spline
8. Radhika V. S. – Connected Vertex – Edge Dominating Sets and Connected Vertex – Edge Domination polynomials of Gem Graph G_n .

Finally, the conference concluded with the valedictory function on 25th February, 2021.

All the programmes can be viewed in DGVC Maths You Tube Channel.

<https://www.youtube.com/channel/UCDcPvWpvlTkuAjl1UV9MhUA>



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Faculty Development Programme

- UGC Sponsored seven days National level virtual Faculty Development Programme on “Promising Success through inclusive Development”

DAY 2 : 16. 02. 2021

SESSION I : 2.00 pm to 3.00 pm

Dr. Thappa Venkatesh
Lead Man of India,
Professor Emeritus,
Department of Biochemistry and
Biophysics,
St. John's Medical College, Bangalore.
Topic: Ten Commandments For Faculty
Excellence of Higher Education System

SESSION II : 3.30 pm to 4.30 pm

**Swarany Shri, Anantha Padmanabha
Cherlar**
Chennai,
Topic : Swarny Desikan Life is an Art

DAY 3 : 17. 02. 2021

SESSION I : 2.00 pm to 3.00 pm

Ms. Rohini Chandramouli
Freelance Trainer and Consultant,
Examiner- Cambridge University,
Mumbai.
Topic: Spiritual Re-Engineering

SESSION II : 3.30 pm to 4.30 pm

Dr. S. Kalirajan
Deputy Dean, IIT Institute of Project
Management, IIT Limited, Chennai.
Topic: Clarity in Decision Making-
Leading to Success

DAY 1 : 15. 02. 2021

Inauguration
Inaugural Address: 2.30 pm
Shri. Ashok Kumar Mundhra
Secretary, D G Vaishnav College,
Chennai.

Presidential Address: 2.40 pm
Dr. S. Santhosh Babou
Principal, D G Vaishnav College,
Chennai.

Welcome Address: 2.50 pm
Prof. B. Venkataramanan
Convener & Head, PG & Research
Department of Mathematics,
D G Vaishnav College,
Chennai.

SESSION I : 3.00 pm to 4.00 pm

Dr. Mala Sridharan
Associate Professor & Head,
Department of Psychology,
NMKV College, Bangalore.
Topic: Education- A Promising Citadel

SESSION II : 4.00 pm to 5.00 pm

Dr. Kanthimathi
Associate Professor,
Department of English,
SDNS Vaishnav College, Chennai.
Topic : Online Teaching Learning-
Managing (d) Stress

JAI SHRI KRISHNA

DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE
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Chennai – 600 106, Tamil Nadu
College with Potential for Excellence
(Linguistic Minority Institution, Affiliated to University of Madras)

The Management, Principal, Staff and Students of the
Post Graduate & Research Department of Mathematics
Cordially Invite Everyone to the Inauguration of the
**Seven Days National Level Virtual Faculty
Development Programme**
On
**“PROMISING SUCCESS THROUGH INCLUSIVE
DEVELOPMENT”**

15th – 21st, February 2021

ADVISORY COMMITTEE

Dr. K.A. Venkatesh
Adjunct Professor, IIT-B. India,
Professor of Mathematics & Computer Science,
Myanmar Institute of Information Technology,
Mandalay, Myanmar.

Dr. S. Minirani
Associate Professor in Mathematics,
Department of Basic Sciences & Humanities,
MPSTME, NMIMS,
Deemed to be University,
Mumbai.

Dr. Murali Ganam
Head, MA English,
D G Vaishnav College, Chennai.

Mr. R. Suresh Ramanujam
Executive Life Learner,
TII, Chennai.

POINTS TO PONDER

- This program is specially designed for Faculty.
- It is mandatory to register through the link given:
<https://forms.gle/uDRwRwnlckSGBoo6>
- **NO REGISTRATION FEE.**
- **Telegram link**
<https://t.me/joinchat/FG8HPhGwR7VZSHQ7>

DAY 6 : 20. 02. 2021

SESSION I : 2.00 pm to 3.00 pm

Dr. V. Ganesan
Associate Professor,
Department of English,
A M Jain College, Chennai.
Topic : Teaching as Learning

SESSION II : 3.30 pm to 4.30 pm

Dr. S. Surendran
Associate Professor & Head,
Department of Sociology,
S T Hindu College,
Nagercoil.
Topic: Negative Thinking

DAY 7 : 21. 02. 2021

SESSION I : 2.00 pm to 3.00 pm

Dr. T.S. Prema
Associate Professor & Head,
Department of Economics,
D G Vaishnav College, Chennai.
Topic: Developing Leadership
Qualities

SESSION II : 3.30 pm to 4.30 pm

Dr. Murali Ganam
Head, MA English,
D G Vaishnav College, Chennai.
Topic: Motivating the Motivator.

Valedictory Function: 4.30 pm

DAY 4 : 18. 02. 2021

SESSION I : 2.00 pm to 3.00 pm

Prof. R. Suresh
Visiting Professor (HR, Law, Strategy
& Marketing)
Corporate Trainer, Bangalore.
Topic : The New Paradigm Shift in
Role of Faculties for Ensuring
Students Success in Real Life.

SESSION II : 3.30 pm to 4.30 pm

Ms. Annapurna. A
Founder and CEO - Emotionalytics
and Co, Bangalore.
Topic : Emotional Intelligence

DAY 5 : 19. 02. 2021

SESSION I : 2.00 pm to 3.00 pm

Dr. Mohammed Abdul Jinnah
Associate Professor,
Department of English,
Jamal Mohammed College, Trichy.
Topic: Emotional Intelligence in
the Classroom

SESSION II : 3.30 pm to 4.30 pm

Ms. S.S. Seetha Lakshmi
Certified IB Curriculum Developer,
Corporate Trainer,
Chennai.
Topic: Rediscover Existing Person



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- **UGC Sponsored seven days National level virtual Faculty Development Programme on “Promising Success through inclusive Development”** was held from 15th February to 21st February 2021. The FDP started on 15th Feb, 2021 with Inaugural address given by Shri. Ashok Kumar Mundhara, Secretary, DG. Vaishnav College and the Presidential address was delivered by Dr. S. Santhosh Baboo, Principal, D.G.Vaishnav College. The Convenor and the Head of the Department of Mathematics, Prof.R.Venkataramanan delivered the Welcome Address followed by the overview of the conference by Prof.M.Devika, Associate Professor, D.G. Vaishnav College. There were fourteen invited talks by Eminent Professor’s from various Universities/Institutes across India. It was concluded with valedictory function addressed Prof. Jibrael Jos, Christ University, Bangalore on 21st Feb, 2021. 120 participants comprising of both faculties and students from various institutes participated in the conference.



March 2021

Akshay B. G. Vaidikar College
 Dr. B. K. G. Vaidikar College, D. O. Vaidikar College, Chemoa
 College, a linguistic minority institution established in the year 1984 by the Karghadekar and Gajwade settled in Chemoa for the cause of higher education. The college with a sole purpose of imparting knowledge and value based education on its grand day on 29th June 1984 with our course in B.Sc., Mathematics with IIS. Tereke Jyotika (Teacher of Dr. APJ Abdul Kalam) is its first Principal.

Dr. B. K. G. Vaidikar College has been a known for the promotion of mathematics learners through five decades and more. College was founded on the principles of Vaidikarism, with the sole purpose of imparting value based quality education and empowering the youth. The college has seen a phenomenal growth in terms of its infrastructure and encouraged curriculum to cater to the specific needs of the students community. Outstanding performance of the students in academic and extracurricular activities has enabled the college to emerge one of the premier institutions of higher learning.

About the Department
 The Post Graduate and Research Department of Mathematics, D. O. Vaidikar College, Chemoa has been vigorously engaged in both research and teaching. The Department has energetic and dedicated faculty members who actively involve in research areas like Complex Analysis, Number Theory, Mathematical Analysis, Fractal Sets, Fractal Optimization, Permutation, Information Security, Differential equations, Wavelets and Numerical Methods.

The Department offers B.Sc., M.Sc. and M.Phil. courses in Mathematics.

Theme of the Programme:
 The seven days Faculty Development Programme (FDP) attended for the participants who aspire to excel in Mathematics both Pure and Applied. It enables sophisticated ways in learning the emerging trends and focuses on various topics such as Algebra, Differential Equations, Set Computing, Optimisation and Computational Mathematics.

Dr. B. K. G. Vaidikar College
 Dr. B. K. G. Vaidikar College, D. O. Vaidikar College, Chemoa
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Dr. B. K. G. Vaidikar College
 Dr. B. K. G. Vaidikar College, D. O. Vaidikar College, Chemoa
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Registration: 22.08.2024	
Session 1: 22.08.2024	
10.00 - 11.00 AM	
Topic: Introduction to the Course	
	
Dr. Anil Kumar Associate Professor Department of Mathematics SVKM's Institute of Technology Sion, Mumbai	Dr. Anil Kumar Associate Professor Department of Mathematics SVKM's Institute of Technology Sion, Mumbai
11.00 - 12.00 PM	
Topic: Introduction to the Course	
	
Dr. Anil Kumar Associate Professor Department of Mathematics SVKM's Institute of Technology Sion, Mumbai	Dr. Anil Kumar Associate Professor Department of Mathematics SVKM's Institute of Technology Sion, Mumbai
12.00 - 1.00 PM	
Topic: Introduction to the Course	
	
Dr. Anil Kumar Associate Professor Department of Mathematics SVKM's Institute of Technology Sion, Mumbai	Dr. Anil Kumar Associate Professor Department of Mathematics SVKM's Institute of Technology Sion, Mumbai
1.00 - 2.00 PM	
Topic: Introduction to the Course	
	
Dr. Anil Kumar Associate Professor Department of Mathematics SVKM's Institute of Technology Sion, Mumbai	Dr. Anil Kumar Associate Professor Department of Mathematics SVKM's Institute of Technology Sion, Mumbai
2.00 - 3.00 PM	
Topic: Introduction to the Course	
	
Dr. Anil Kumar Associate Professor Department of Mathematics SVKM's Institute of Technology Sion, Mumbai	Dr. Anil Kumar Associate Professor Department of Mathematics SVKM's Institute of Technology Sion, Mumbai
3.00 - 4.00 PM	
Topic: Introduction to the Course	
	
Dr. Anil Kumar Associate Professor Department of Mathematics SVKM's Institute of Technology Sion, Mumbai	Dr. Anil Kumar Associate Professor Department of Mathematics SVKM's Institute of Technology Sion, Mumbai
4.00 - 5.00 PM	
Topic: Introduction to the Course	
	
Dr. Anil Kumar Associate Professor Department of Mathematics SVKM's Institute of Technology Sion, Mumbai	Dr. Anil Kumar Associate Professor Department of Mathematics SVKM's Institute of Technology Sion, Mumbai

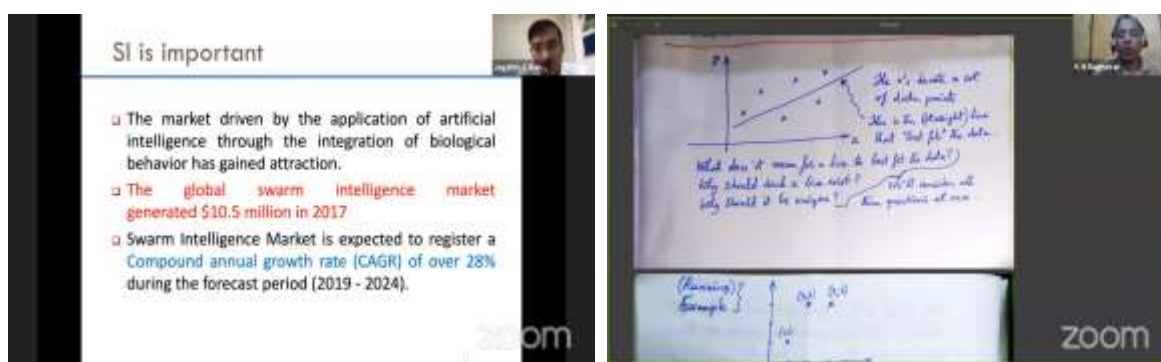
[illegible]

The PG & Research Department of Mathematics successfully completed seven days Faculty Development Program on “Aspects of Mathematics” from 22.03.2021 to 28.03.2021.

On Day 1, the FDP started with Welcome address from the Convenor of the FDP prof. M. Devika, PG & Research Department of Mathematics, D G Vaishnav College, Chennai. Shri Ashok Kumar Mundhra, The Secretary, D. G. Vaishnav college had given the Inaugural message. The Principal of D G Vaishnav College, Dr. S. Santhosh Baboo, gave the Inaugural speech followed by the Key note address from Dr. K. A. Venkatesh, Professor of Mathematics and Computer Science, Myanmar Institute of Information Technology, Mandalay, Myanmar. Dr. K. A. Venkatesh initiated the release of *Brahmaganiith* – The Mathematics Club of PG & Research Department of Mathematics, D G Vaishnav College and The Principal released the proceedings of the Two day National Conference on Analysis and Its Applications. The Principal also released the news letter - *Mathphile* of PG & Research Department of Mathematics, D G Vaishnav College. Finally, the vote of thanks was given by Dr. S. Hariharan, Assitant Professor, PG & Research Department of Mathematics, D G Vaishnav College, Chennai.



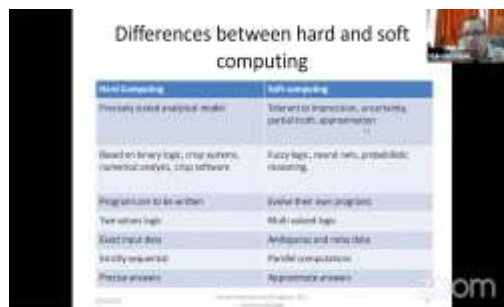
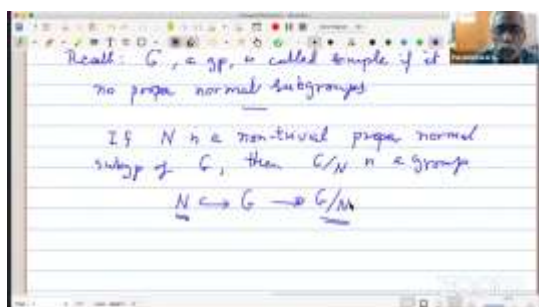
The Technical session on Day 1 started with a talk on [SWARM Intelligence: An Intelligent way of Optimization](#), by Dr. Jagadish Chand Bansali, South Asian University, New Delhi. The second session was addressed by Dr. K N Ragavan, Institute of Mathematical Sciences, Chennai, on [The line of best fit: A linear algebraic approach](#).



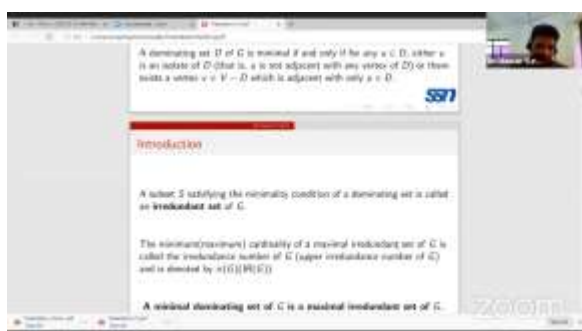
Day 2 was started with a session on [Base Stock Policy with Retrial Demands](#) by Dr. Anbazhagan, Professor, Alagappa University, Karaikudi followed by the second session on [Advances in Nature Inspired Optimization Techniques](#) by Dr. Kusumdeep, Professor, Department of Mathematics, Indian Institute of Technology, Roorkee.



On Day 3, the first session was on [Simple Groups](#) by Dr. Parameswaran Sankaran, Professor, Institute of Mathematical Sciences, Chennai and Dr. Mukesh Kumar Sharma, from Chaudhary Charan Singh University, Meerut gave a lecture on [Soft Computing](#).



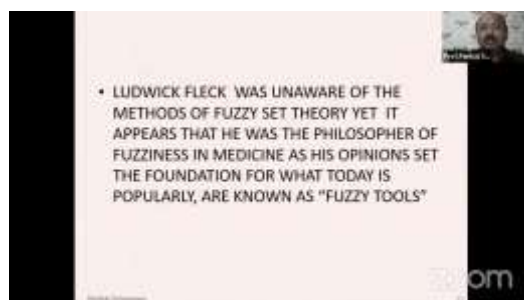
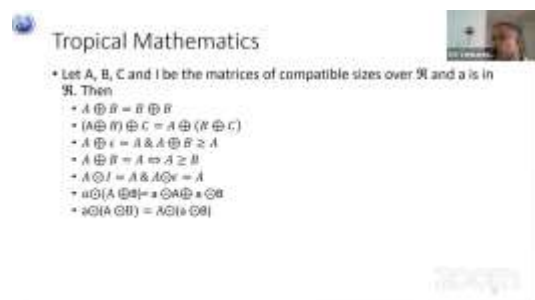
On Day 4, Dr. R. Sundareshwaran from SSN Engineering College gave a lecture on [Outer Complete Fair Domination in Graphs](#). and Dr. Nagaraj, Professor, Chennai Mathematical Institute, handled the second session with his lecture on [Symmetries and Groups](#).



The first session of Day 5 was handled by Dr. Minirani from NMIMS. She gave a lecture on [Predictive Modelling](#). The second lecture was given by Dr. Mani Sankar, Ibri, Sultanate of Oman on [Numerical Solutions for PDE](#).



On Day 6, Dr. K. A. Venkatesh, Professor, Myanmar Institute of Information Technology, had given a lecture on [Tropical Mathematics](#) and the second session was on [Soft Computing Diagnostic System](#) by Dr. Pankaj Srivastava, MNNIT.



Finally, on Day 7, the first session started with [Open Problems in Mathematics](#) by Dr. R. Sivaraman, followed by a lecture on [Computational Linear Algebra](#) by Dr. S. Hariharan from D. G. Vaishnav college, Chennai.

The Valedictory session started with Principal's address followed by the Valedictory address from Dr. Mukti Acharya, Professor, Department of Mathematics, Christ University, Bangalore. The Convenor of the FDP Prof. M. Devika, briefed about the FDP and also gave Vote of Thanks on 28th March, 2021.



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List of Workshops

JAI SHRI KRISHNA
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(Linguistic Minority Institution)

Post Graduate and Research Department of Mathematics

Cordially Invite
everyone to participate in Workshop on

Geogebra: A Teaching Tool

Conducted by


Mr. Ganesh S
Mathematics Teacher
PUM School, Kilariyam, Koradachery Block
Thiruvannur District
NCERT E-Resource Development Team Member
National ICT Curriculum Team Member, Diksha Content Creator

Dates : 12.08.2020, 13.08.2020, 14.08.2020
Time: 10 AM to 12:30 PM
Registration is free and E-Certificate will be given to all Participants

Organizing Committee

L.S.Somasundara Ori	Mrs. C.M. Subalakshmi	Mrs. Kalpana K
Shri. Ashok Kumar Mundhira Secretary	Dr. R. Ganesan Principal	Professor R. Venkataraman Convener & Head



- A three- day workshop on Geogebra: A teaching tool was organized from 12th -14th August 2020 presented by Dr. S. Ganesh Mathematics teacher, PUM School, Kilariyum, Thiruvannur district. NCERT E- Resource development team member National ICT curriculum team member Diksha contact center with 587 faculty members 40 research scholar and 386 students participated. He demonstrated and explained how a graph could be drawn using this software and how could it be useful for teachers to explain for students.



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The poster is for a workshop titled "L² : Learning Latex" conducted by Dr. S. Sivasubramanian. It is organized by the Post Graduate and Research Department of Mathematics at Jai Shri Krishna Dwaraka Doss Goverdhan Doss Vaishnav College, Chennai 600 106. The dates are 17.08.2020, 18.08.2020, and 19.08.2020, from 10 AM to 12.30 PM. The poster includes a photo of Dr. S. Sivasubramanian and a list of the organizing committee members: Dr. P. Usha (Secretary), Prof. M. Devika (Principal), and Lt.S. Somasundara Orl (Convenor & Head). There are also buttons for "Click Here to join Our Telegram Group" and "Click Here to Register".


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Post Graduate and Research Department of Mathematics

Cordially Invite
everyone to participate in Workshop on

L² : Learning Latex

Conducted by



Dr. S. Sivasubramanian
Professor of Mathematics
Head of the Department
Science and Humanities
Anna University, University College of Engineering
Tindivanam, Tindivanam.

Dates : 17.08.2020, 18.08.2020, 19.08.2020
Time: 10 AM to 12.30 PM

Registration is free and E-Certificate will be given to all Participants

Organizing Committee

Dr. P. Usha <i>Sri. Ashok Kumar Mundira</i> Secretary	Prof. M. Devika Ms. N. Poonima <i>Dr. R. Ganesan</i> Principal	Lt.S. Somasundara Orl <i>Professor R. Venkataramanan</i> Convenor & Head
---	---	--



- A three- day workshop was conducted from 17th to 19th August by PG and Research Department of Mathematics DG Vaishnav College on L² Learning Latex presented by Dr. S. Siva Subramanian Professor of Mathematics, Head of the Department Science and Humanities Anna University College of Engineering, Tindivanam. He demonstrated Latex programming and explained the commands used in various typesetting . There were 231 faculty, 46 Research Persons and 373 students were participated in this program.



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List of Webinars

The poster is for a webinar titled "Applications of Number Theory in Cryptography". It is organized by the P.G. and Research Department of Mathematics at Dwarka Doss Goverdhan Doss Vaishnav College, an autonomous linguistic minority institution in Chennai. The webinar is presented by Dr. P. Vanchinathan, a professor at VIT Chennai. It is scheduled for July 11, 2020, from 10:30 AM to 12:00 Noon. The poster includes a registration link and a webinar ID. At the bottom, it lists the Secretary, Principal, and Head of the Department of Mathematics.

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P.G. and Research Department of Mathematics cordially invite
everyone to participate in National Webinar on

**Applications of Number Theory
in
Cryptography**

 **PRESENTED BY
Dr.P. Vanchinathan**
Professor, VIT Chennai. 

Date: 11.07.2020 Time: 10.30am to 12.00 Noon

Research Scholars, Students, Teachers, Professors and Mathematics Enthusiasts
can participate. e-certificates will be provided to all participants. Registration
is free to all.

Registration Link: <https://forms.gle/oDjg6N5oGYCxrQpS9>
Webinar ID: meet.google.com/isw-ikuu-aez

Shri.Ashok Kumar Mundhra Dr. R. Ganesan Professor. R.Venkataramanan
Secretary Principal Head, Department of Mathematics

- On 11th July 2020 Post Graduate and Research Department of Mathematics D.G. Vaishnav College conducted National Webinar on Application of Number Theory in Cryptography by Dr. P. Vanchinathan Professor, VIT, Chennai. He spoke about encryption of data used in ancient times and about how the secrets were maintained during the war times. He also demonstrated application of computer language Python in cryptography. 432 participants registered for this webinar.



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**P.G. and Research Department of Mathematics cordially invite
everyone to participate in National Webinar on**

**Decimal Expansion, Gauss Conjecture
&
Borel Conjecture**

PRESENTED BY
Dr.R. Thangadurai
Professor, Harish-Chandra Research Institute
Allahabad, India

Date: 25.07.2020 Time: 10.30am to 12.00 Noon

Research Scholars, Students, Teachers, Professors and Mathematics Enthusiasts
can participate. e-certificates will be provided to all participants. Registration
is free to all.

Registration Link: <https://forms.gle/WdFPyhGivTG2VEJj6>

Organizing Committee
Dr. N. Jayanthkarthik

Dr. P.Usha	Dr. S.U.Malini	Dr. R. Arundhadhi
Shri.Ashok Kumar Mundhra Secretary	Dr. R. Ganesan Principal	Professor. R.Venkataramanan Head, Department of Mathematics

- National Webinar on Decimal expansion, Gauss Conjecture & Borel Function was presented by Dr. R. Thangadurai Professor, Health Chandra Research Institute, Allahabad, India on 25th July 2020 there were 321 faculty participants, 53 research Scholar and 174 student's participation. Speaker defined cantor Set and explained how any real number is given decimal expansion and about Gauss Conjecture and Borel Function.



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Post Graduate and Research Department of Mathematics
cordially invite everyone to participate in National Webinar on

Some Problems of Global Analysis

PRESENTED BY
Dr. T.Venkatesh
Director, Mathematical Sciences Institute, Belagavi, Karnataka

Date: 1.8.2020 Time: 10.30 am to 12.00 Noon

Registration is free and e-certificate will be given to all participants

Registration Link
Mrs.N.Poornima

Organizing Committee
B.Abirami
Mrs.C.M.Subalakshmi

Telegram Link
Mrs.K.Kalpana

Shri.Ashok Kumar Mundhra
Secretary

Dr. R. Ganesan
Principal

Prof. R.Venkataramanan
Convenor & Head, Department of Mathematics

- National webinar on Some problems of Global Analysis was conducted on 01/08/2020 presented by Dr. T. Venkatesh, Director, Mathematical Science Institute Belgavi, Karnataka .252 faculties, 45 Resource Persons and 102 students Participated and they were benefited from his lecture. Speaker explained how all physical phenomena can be framed as a mathematical equation and how it can be solved.



The poster is for an international webinar titled "APPLICATIONS OF LINEAR PROGRAMMING IN PERFORMANCE MEASUREMENT". It is presented by Dr. K. A. Venkatesh, an Adjunct Professor at IIIT-B, India. The event is organized by the Post Graduate & Research Department of Mathematics at Dwarka Doss Govardhan Doss Vaishnav College, Chennai 106. The date is 8th August 2020, from 10.30am to 12 Noon. Registration is free, and an E Certificate will be given to all participants. The organizing committee includes Mrs. C.M. Subalakshmi, Mrs. N. Poornima, and Lt. G. Somasundara Ori. The poster also lists Shri. Ashok Kumar Mundhra as Secretary, Dr. R. Ganesan as Principal, and Prof. R. Venkataramanan as Convenor & Head. There are two call-to-action buttons: "Click here to join our telegram group" and "Click Here to register".

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Post Graduate & Research Department of Mathematics

Cordially Invite Everyone to Participate in International Webinar on
**APPLICATIONS OF LINEAR PROGRAMMING IN
PERFORMANCE MEASUREMENT**

Click here to join our telegram group

Presented by

Dr. K. A. Venkatesh
Adjunct Professor-IIIT-B, India
Professor of Mathematics and Computer Science
Myanmar Institute of Information Technology
Chanmyathazi Township,
Mandalay, Myanmar

Click Here to register

DATE: 8th August 2020 **TIME: 10.30am to 12 Noon**
Registration is free and E Certificate will be given to all Participants

Organising Committee
Mrs. N. Poornima
Mrs. C. M. Subalakshmi Lt. G. Somasundara Ori Mrs. Divya S Raj

Shri. Ashok Kumar Mundhra **Dr. R. Ganesan** **Prof. R. Venkataramanan**
Secretary Principal Convenor & Head

- International webinar on Application of Linear programming in Performance Measurement presented by Dr. K. A. Venkatesh, Adjunct Professor IIIT Bangalore, Professor of Mathematics and computer Science Myanmar Institute of Information Technology, Mandalay Myanmar on 8th August 2020 there were about 189 faculty members 22 research scholars and 77 students participated. A mathematical model has certain assumption and limitation he explained how frontier Analysis is used to arrive Performance and how efficiency can be arrived using efficient frontier and Data envelopment analysis. Speaker explained about the application of LPP in Performance Measurement Geometry LPP, also he explained how to Solve LPP using Excel and how to model the performance measurement as an LPP.



- National webinar on Role of fuzzy Analysis was organized on 27th August 2020 by Dr. K. Arjunan Assistant Professor, Alagappa Government Arts College, Karaikudi there were 83 faculty participants, 10 Research Scholar and 148 students were Participated in this webinar. This webinar was about the application of fuzzy and its analysis.



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Post Graduate and Research Department of Mathematics

Cordially Invite
everyone to participate in National Webinar on

**The Axiom of Choice and
Some of its Consequences**

Presented by

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Our Telegram Group](#)




[Click Here
to Register](#)

Dr. Alladi Sriram
Assistant Professor
A.M.Jain College, Chennai

Date : 28.08.2020 Time: 10:30 AM to 12 NOON
Registration is free and E-Certificate will be given to all Participants

Organizing Committee

Mrs. N. Poomma	Dr. P. Usha	Mrs. C.M. Subalakshmi
<i>Sri. Ashok Kumar Mundira Secretary</i>	<i>Dr. R. Ganesan Principal</i>	<i>Professor, R. Venkataramanan Convener & Head</i>



- National Webinar on The axiom of choice and some of its consequences was organized on 28th August 2020 by Dr. Alladi Sriram, Assistant Professor, A.M. Jain College, Chennai . There were 78 faculty participants, 12 research participants and 153 students participated in this program. Speaker explained about the axiom of choice and its applications.



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The poster is for a National Webinar titled "Functions of Bounded Variations". It is presented by Dr. M. Marudai, an Honorary Professor at the Department of Mathematics, Bharathidasan University, Trichy. The event is organized by the Post Graduate and Research Department of Mathematics at Jai Shri Krishna Dwaraka Doss Goverdhan Doss Vaishnav College (Autonomous), Chennai 600 106. The date is 29.08.2020, and the time is 10:30 AM to 12 NOON. Registration is free, and an E-Certificate will be given to all participants. The organizing committee includes Dr. B. Abirami, Dr. S.U. Malini, and L.S. Somasundara Ovi. The poster also mentions the Secretary, Sri. Ashok Kumar Mundhra, and the Principal, Dr. R. Ganesan. A small image of a deity is at the bottom.

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Post Graduate and Research Department of Mathematics

Cordially Invite
everyone to participate in National Webinar on

Functions of Bounded Variations

Presented by

*Click Here to join
Our Telegram Group*

*Click Here
to Register*

Dr. M. Marudai
Honorary Professor
Department of Mathematics
Bharathidasan University, Trichy

Date : 29.08.2020 **Time: 10:30 AM to 12 NOON**
Registration is free and E-Certificate will be given to all Participants

Organizing Committee
Dr. S.U. Malini

Dr. B. Abirami L.S. Somasundara Ovi

Sri. Ashok Kumar Mundhra Dr. R. Ganesan Professor R. Venkataramanan
Secretary Principal Convenor & Head


- National Webinar on the function of bounded Variation by Dr. M. Marudai, Honorary Professor Department of Mathematics, Bharathidasan University, Trichy on 29th August 2020. 92 faculty participants, 14 Research scholars and 168 Students were participated in this webinar and gained knowledge about functions of Bounded Variation he introduced and solved sequences and series with different techniques.



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Post Graduate & Research Department of Mathematics
Cordially Invite Everyone to Participate in
National Webinar on
Mathematical Modelling of Infectious Diseases

Presented by



Dr. D. K. Yadav
Assistant Professor
Department of Statistics & Demography
National Institute of Health & Family Welfare
Munirka, New Delhi-110067

DATE: 12th September 2020 **TIME: 10.30am to 12 Noon**

Registration is free and E Certificate will be given to all Participants

Organising Committee

Dr. R. Arundhadhi		
Dr.B.Abirami	Ms. C.M.Subalakshmi	Ms. K.Kalpna
Shri. Ashok Kumar Mundhra Secretary	Dr.S.Santhosh Baboo Principal	Prof. R.Venkataramanan Convenor & Head



- National Webinar on mathematical modelling of Infectious Disease was presented by Dr. D.K. Yadav, Assistant Professor, Department of Mathematics and Demography, National Institute of Health and Family welfare Munirka, Noida on 12th Sep 2020 in which 107 faculties, 32 research Scholars and 69 students participated.



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Cordially Invite Everyone to Participate in
National Webinar on
Coloring Game of Graphs

Presented by



Dr. S. Francis Raj,
Assistant Professor,
Department of Mathematics,
Ramanujan School of Mathematical Sciences,
Pondicherry University, Pondicherry-605014.

DATE: 19th September 2020 **TIME: 10.30am to 12 Noon**

Registration is free and E Certificate will be given to all Participants

Organising Committee
Dr. N.Jayanth Karthik

Ms. N. Poornima	Lt. G. Somasundara Ori	Ms. Divya S Raj
Shri. Ashok Kumar Mundhra Secretary	Dr.S. Santhosh Baboo Principal	Prof. R.Venkataraman, Convenor & Head



- National Webinar on Coloring Game of graphs was presented by Dr. S. Francis Raj Assistant Professor, Department of Mathematics, Ramanujan School of Mathematical Sciences, Pondicherry University on 19th Sep 2020 . In which 49 faculty participants, 11 research scholar and 258 students were participated. His lecture was about how graphs can be colored with certain constraints.



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Cordially Invite Everyone to Participate in
National Webinar on
Introduction to Digital Topology

Presented by

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our Telegram group





Dr. P.T. RAMACHANDRAN
(Retired Professor Of Mathematics,
University Of Calicut)
Thankam, Mele Kizhissery
Kuzhimanna P.O. Malappuram Dt, Kerala.

Click Here to
register



DATE: 2nd & 3rd October 2020 **TIME: 10.30am to 12 Noon**

Registration is free and E Certificate will be given to all Participants

Organising Committee

Dr.P.Usha	Ms. N. Poornima	Dr. S.U.Malini
Shri. Ashok Kumar Mundhra Secretary	Capt. Dr. S.Santhosh Baboo Principal	Prof. R.Venkataramanan Convenor & Head



- A two-day National Webinar on Introduction to Digital Topology was presented by Dr. P.T. Ramachandran retired professor of Mathematics, University of Calicut on 2 & 3 October 2020 with 80 faculty participants 13 research scholar and 279 student's participation. The speaker explained about how picture component can be separated and used in digital image processing, document reading, Radiology, Hematology, Tomography, Geology, Land use management, counting and labelling, border tracking Contour filling the thinning etc.



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The poster is for a National Webinar on Mathematics of Fractals. It features a dark red background with gold and white text and decorative borders. At the top, it mentions 'Jai Shree Krishna' and the host institution, 'DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE (AUTONOMOUS) CHENNAI 106'. Below this, it states 'College with Potential for Excellence' and 'Linguistic Minority Institution'. The webinar is organized by the 'Post Graduate & Research Department of Mathematics'. The presenter is 'Dr. S. Minirani', an Associate Professor in Mathematics at the Department of Basic Sciences & Humanities, MPSTME, NMIMS, Deemed to be University, Mumbai, India. The date is '10th October 2020' and the time is '10.30am to 12 Noon'. Registration is free, and an E Certificate will be given to all participants. The organizing committee includes Dr. R. Arundhadhi, Prof. M. Devika, Dr. B. Abirami, Mr. P. Thirumal, Shri. Ashok Kumar Mundhra, Capt. Dr. S. Santhosh Baboo, and Prof. R. Venkataramanan. There are links to join the Telegram group and register, along with icons for Telegram and a document.

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Cordially Invite Everyone to Participate in
National Webinar on
Mathematics of Fractals

Presented by

[Click here to Join our Telegram group](#)

Dr. S. Minirani
Associate Professor in Mathematics,
Department of Basic Sciences & Humanities,
MPSTME, NMIMS,
Deemed to be University
Mumbai, India.

[Click Here to register](#)

DATE: 10th October 2020 **TIME: 10.30am to 12 Noon**
Registration is free and E Certificate will be given to all Participants

Organising Committee

Dr. R. Arundhadhi	Prof. M. Devika	Mr. P. Thirumal
Shri. Ashok Kumar Mundhra Secretary	Capt. Dr. S. Santhosh Baboo Principal	Prof. R. Venkataramanan Convenor & Head

- National Webinar on Mathematics of Fractals on 10th October, 2020 presented by Dr. S. Minirani, Associate Professor in Mathematics, Department of Basic Science and Humanities, MPSTME, NMIMS, Deemed to be University, Mumbai. The webinar was attended by 34 faculty participants 5 research scholars and 165 students. Resource person gave introduction to fractals and explaining the concepts fractals in detail. She also clarified where do we use fractals and how Euclidean geometry is used to define fractals. Application of fractals in various fields were also explained.



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Cordially Invite Everyone to Participate in
National Webinar on
Construction of Topology from Basis and Sub-Basis

Presented by

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[Click Here to register](#)



Dr. J. Sivasakthivel
(Retired Professor & Head,
Department Of Mathematics,
Vivekananda College, Agatheeswaram, Kanyakumari)

DATE: 24th October 2020 **TIME: 10.30am to 12 Noon**
Registration is free and E Certificate will be given to all Participants

Organising Committee

Ms.K.Kalpana	Mr.R.Krishna	Ms. S.Rajasekar
Shri. Ashok Kumar Mundhra Secretary	Dr.S. Santhosh Baboo Principal	Prof. R.Venkataramanan Convenor & Head



- Webinar on construction of Topology from basis and sub basis was conducted on 24th October, 2020 presented by Dr. J. Sakthivel Retired prof and head of department of Mathematics Vivekananda college, Agatheeswaram Kanyakumari, Tamilnadu. Number of participants for this webinar was 40 faculty, 10 research scholar and 167 students. Started his lecture by defining Metric space and opensets properties of open sets and he introduced Topology and he completely covered about basis and sub basis and he also said about books. Which are very useful to have a wider knowledge about topology.



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Cordially Invite Everyone to Participate in
National Webinar on
General Measure and Integration

Presented by

[Click here to Join our Telegram group](#)



[Click Here to register](#)



Dr. C. Elango
Associate Professor,
Research Department of Mathematical Sciences
Cardamom Planters' Association College, Theni District

DATE: 31st October 2020 **TIME: 10.30am to 12 Noon**
Registration is free and E Certificate will be given to all Participants

Organising Committee

Mr.P.Thirumal	Ms. K. Kalpana	Mr. S.Rajasekar
Smt. Ashok Kumar Mundhra Secretary	Dr.S. Santhosh Baboo Principal	Prof. R.Venkataramanan Convener & Head



- National webinar on General Measure and integration was conducted on 31st oct 2020 presented by Dr. C. Elango. Associate Professor, Research Department of Mathematical Sciences. Cardamon Planters Association College Theni District. Speaker introduced about Integration application using measure of profit and loss and Riemann Integration. He stated about difference between differentiation and Integration.



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(AUTONOMOUS) CHENNAI 106.
College with Potential for Excellence
Linguistic Minority Institution
Post Graduate & Research Department of Mathematics
Cordially Invite Everyone to Participate in
National Webinar on
Application of epidemiological model to quantify the spreading of
fake news in social media

Presented by

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Dr.Pooja Khurana
Associate Professor-Mathematics
Department of Applied Sciences
Faculty of Engineering & Technology
Manav Rachna International Institute of Research and Studies

DATE: 7th November 2020 TIME: 10.30am to 12 Noon

Registration is free and E Certificate will be given to all Participants

Organising Committee

Dr. B. Abirami	Dr. P.Usha	Ms.C.M.Subalakshmi
Shri. Ashok Kumar Mundhra Secretary	Capt. Dr.S. Santhosh Baboo Principal	Prof. R.Venkataramanan Convenor & Head



- National Webinar on Application of Epidemiological model to Quantify the spreading of Fake News in Social Media on 7.11.2020 presented by Dr.Pooja Khurana, Associate Professor, Faculty of Engineering Technology, Manav Rachna International Institute of Research & Studies, Faridabbad. The webinar was attended by 32 faculty participants 5 research scholars and 210 students. Introduced about Epidemiological model to Quantify the spreading of Fake News in Social Media which are very useful to have a wider knowledge about the spreading of Fake News in Social Media.



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National Webinar on
Introduction to Mathematica

Presented by

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Dr. Jogendra Kumar
Associate Professor, Department of Mathematics
DIT University, Dehradun
Uttarakhand, India 248009

DATE: 21st November 2020 TIME: 10.30am to 12 Noon

Registration is free and E Certificate will be given to all Participants

Organising Committee

Dr. N. Jayanth Karthik	Prof. M. Devika	Dr. B. Abirami
Shri. Ashok Kumar Mundhra Secretary	Capt. Dr. S. Santhosh Baboo Principal	Prof. R. Venkataramanan Convenor & Head



- National Webinar on Introduction to Mathematica which was held on 21.11.2020 presented by Dr. Jogendra Kumar, Associate Professor, Department of Mathematics, DIT University, Dehradun, Uttarakhand. The webinar was attended by faculty participants research scholars and students. This Webinar was about an Introduction to Mathematica – Scientific Computing and Visualization. Solving Ordinary Differential Equations, Partial Differential Equations and Numerical Analysis problems in Programming Language.



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National Webinar on
Uniform Convergence

Presented by

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Dr.P.S.Srinivasan
Assistant Professor, Department of Mathematics
Bharathidasan University
Tiruchirappalli – 620 024

[Click Here to
register](#)



DATE: 28th November 2020 **TIME: 10.30am to 12 Noon**
Registration is free and E Certificate will be given to all Participants

Organising Committee

Dr. N.Jayanth Karthik	Prof. M.Devika	Dr. B. Abirami
Shri. Ashok Kumar Mundhra Secretary	Capt. Dr.S. Santhosh Baboo Principal	Prof. R.Venkataramanan Convenor & Head



- National Webinar on Uniform Convergence which was held on 28.11.2020 presented by Dr.P.Srinivasan, Associate Professor, Department of Mathematics, Bharathidasan University, Tiruchirappalli. The webinar was attended by faculty participants research scholars and students. Introduction over Uniform convergence was his point of discussion and said about Pointwise uniformly Cauchy sequences. Reference books for further studies was mentioned in this webinar.



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Cordially Invite Everyone to Participate in National Webinar on
QUICK VISIT OF MATRICES

Presented by

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Dr. Nita Shah
Professor & Head, Department of Mathematics,
Gujarat University.

Date: 30th January 2021 Time: 10:30am to 12 Noon
Registration is free and E-Certificate will be given to all Participants

Shri. Ashok Kumar Mundhra Secretary
Dr. S. Santhosh Baboo Principal
Prof. R. Venkataramanan Convenor & Head
Organizing Secretary Prof. M. Devika



- National Webinar on Quick Visit of Matrices was held on 30.01.2021 presented by Dr. Nita Shah, Professor and Head, Department of Mathematics, Gujarat University. The webinar was attended by faculty participants research scholars and students.



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Jai Sri Krishna

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Post Graduate & Research Department of Mathematics

Cordially Invite Everyone to Participate in National Webinar on
EXPLORATIONS IN NUMBER THEORY

[Click here to join Our Telegram group](#)    [Click here to Register](#)

Dr.R.Sivaraman
Associate Professor
Post Graduate and Research Department of Mathematics
D.G.Vaishnav College, Chennai

Date: 6th February 2021 Time: 10:30am to 12 Noon
Registration is free and E-Certificate will be given to all Participants

Shri. Ashok Kumar Mundhra Secretary	Dr.S.Santhosh Baboo Principal	Prof.R.Venkataramanan Convenor & Head
Organizing Secretary Dr.N.Jayanth Karthik		

- National Webinar on Explorations in Number theory was conducted on 6th February 2021 by Dr. R. Sivaraman , Associate professor, PG and Research Department of Mathematics, DG Vaishnav College. Resource person explained about the concepts of Number theory in detail. This webinar provided a wonderful chance for participants to understand Concepts of Number theory in detail. 63 Faculties, 6 research scholars and 79 students have registered for this Webinar.



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Cordially Invite Everyone to Participate in National Webinar on

**An Introduction to Linear Programming Problems:
Graphical and Simplex Method**

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Our Telegram group



[Click here](#) to
Register



Dr. Pragma Mishra
Assistant Professor, Department of Mathematics,
PT-Deen Dayal Upadhyay Govt. Girls PG College,
Rajaji Puram, Lucknow, India.

Date: 13th February 2021 Time: 10.30 am to 12.00 Noon
Registration is free and E-Certificate will be given to all Participants



Shri. Ashok Kumar Mundhra
Secretary



Dr. S. Santhosh Baboo
Principal
Organizing Secretary
Dr. R. Sivaraman



Prof. R. Venkataramanan
Convenor & Head

- National Webinar on “Linear Algebra and its Applications” was presented by Dr. Pushpa B.V, Assistant Professor, Department of Mathematics, BMS institute of Technology and Management, Bangalore on 13th March 2021. 40 Faculties, 7 research scholars and 85 students have registered for this Webinar.



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**HIV INFECTION AND ITS REMEDIAL DRUG THERAPY-
A MATHEMATICAL STUDY**

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Our Telegram group



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Register



Dr. Rajeswari Seshadri
Professor & Head Department of Mathematics,
Ramanujan School of Mathematics,
Pondicherry University

Date: 20th February 2021 Time: 10.30 am to 12.00 Noon
Registration is free and E-Certificate will be given to all Participants



Shri. Ashok Kumar Mundhra
Secretary



Dr. S. Santhosh Baboo
Principal
Organizing Secretary
Dr. S. P. Vijayalakshmi



Prof. R. Venkataramanan
Convenor & Head

- National Webinar on “HIV infection and its Remedial Drug therapy – A mathematical Study” was presented by Dr. Rajeswari Seshadri, Professor and Head Department of Mathematics, Ramanujan School of Mathematics, Pondicherry University on 20th February 2021.




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"NEVANLINNA THEORY AND ITS APPLICATIONS"


[Click here to join Telegram](#)


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Dr. RAJESWARI . S
 Assistant Professor,
 Department of Mathematics,
 Presidency University,
 Bangalore.

Date: 27th February 2021 Time: 10.30 am to 12.00 Noon
 Registration is free and E-Certificate will be given to all Participants

 Shri. Ashok kumar Mundhra Secretary	 Dr. S. Santhosh Baboo Principal	 Prof. R. Venkataramanan Convenor
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Organizing Secretary
 Dr. S. Hariharan

- National Webinar on “Nevanlinna Theory and Its Applications” was presented by Dr. Rajeswari. S, Assistant Professor, Department of Mathematics, Presidency University, Bangalore on 27th February 2021.



March 2021

[illegible]

- National Webinar on “Fractional and Discrete Fractional Calculus with Application” by the resource person Dr. G. Britto Antony Xavier, PG and Research Department of Mathematics, Sacred Heart College , Tirupattur on 6th March 2021. 26 Faculties 11 research scholars and 110 students have registered for this Webinar.



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<p>National Webinar on "Linear Algebra and Its Applications"</p> <p><u>Resource Person</u></p>  <p>Dr. Pushpa BV Assistant Professor, Department of Mathematics BMS Institute of Technology and Management, Bangalore – 560 064.</p> <p><u>Convener</u></p>  <p>Prof. R. Venkataramanan Convener and Head, PG & Research Department of Mathematics, D. G. Vaishnav College</p> <p>Who Can Attend? The webinar is aimed at Academicians, Researchers, PG students and UG students from Mathematics.</p> <p>Online Registration Link: Interested participants are requested to fill the Online Form: Click here to Register</p> <p>Click here to join Telegram link</p> <p>Organizing Secretary Dr. S. VAITHYASUBRAMANIAN</p>	<p>ABOUT D.G. VAISHNAV COLLEGE Dwaraka Doss Goverdhan Doss Vaishnav College, a linguistic minority institution, established in the year 1964 by the Rajasthani and Gujarati settled in Chennai for the cause of higher education. The college with a sole purpose of imparting knowledge and value based education saw its grand day on 30th June 1964 with new course in B.Sc. Mathematics with Shri. Totadriyengar (Teacher of Dr. APJ Abdul Kalam) as its first Principal. Dwaraka Doss Goverdhan Doss Vaishnav College has been a haven for presentation of selfless teachers through five decades and more. College was founded on the principles of Vaishnavism, with the sole purpose of imparting value based quality education and empowering the youth. The college has seen a phenomenal growth in terms of its infrastructure and revamped curriculum to cater to the specific needs of the students community. Outstanding performance of the students in academic and extension activities has enabled the college to emerge one of the premier institutions of higher learning.</p> <p>ABOUT THE DEPARTMENT The Post Graduate and Research Department of Mathematics, D.G. Vaishnav College, Chennai has been vigorously engaged in both research and teaching. The department has energetic and dedicated faculty members who actively involved in research areas like Complex Analysis, Number Theory, Mathematical Analysis, Fuzzy Sets, Fuzzy Optimization, Petri nets, Information Security, Differential equations, Wavelets and Numerical Methods. The department offers M.Sc. in Mathematics and B.Sc. in Mathematics.</p> <p><u>Chief Patron</u></p>  <p>Shri. Ashok Kumar Mundira Secretary</p> <p><u>Patron</u></p>  <p>Dr. S. Santhosh Baboo Principal</p>	<p>JAI SHRI KRISHNA DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE (AUTONOMOUS) CHENNAI 600 106. College with Potential for Excellence Linguistic Minority Institution Affiliated to University of Madras</p>   <p>National Webinar on "Linear Algebra and Its Applications" Date: 13th March, 2021. Time: 10:30 A.M – 12:00 Noon</p> <p>Organized by: Post Graduate & Research Department of Mathematics D.G. VAISHNAV COLLEGE</p>
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- National Webinar on “Linear Algebra and its Applications” was presented by Dr. Pushpa B.V, Assistant Professor, Department of Mathematics, BMS institute of Technology and Management, Bangalore on 13th March 2021. 26 faculties 11 research scholars and 110 students have registered for this webinar .



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<p>National Webinar on "An Introduction to Stochastic Calculus"</p> <p><u>Resource Person</u></p>  <p>Dr. N. Hema Retired, Assistant Professor Department of Mathematics D. G. Vaishnav College, Chennai.</p> <p><u>Convenor</u></p>  <p>Prof. R. Venkataramanan Convenor and Head, PG & Research Department of Mathematics, D. G. Vaishnav College</p> <p><u>Who Can Attend?</u> The webinar is aimed at Academicians, Researchers, PG students and UG students from Mathematics.</p> <p><u>Online Registration Link:</u> Interested participants are requested to fill the Online Form: Click here to Register</p> <p> Click here to join Telegram link</p> <p>Organizing Secretary Dr. S. MAYILVAGANAN</p>	<p>ABOUT D.G. VAISHNAV COLLEGE Dwaraka Doss Goverdhan Doss Vaishnav College, a linguistic minority institution established in the year 1964 by the Rajasthani and Gujarati settled in Chennai for the cause of higher education. The college with a sole purpose of imparting knowledge and value based education saw its grand day on 30th June 1964 with one course in B.Sc. Mathematics with Shri. Tattaiyevanga (Teacher of Dr. APF Abdul Kalam) as its first Principal. Dwaraka Doss Goverdhan Doss Vaishnav College has been a haven for generations of enthusiastic learners through five decades and more. College was founded on the principles of Vaishnavism, with the sole purpose of imparting value based quality education and empowering the youth. The college has seen a phenomenal growth in terms of its infrastructure and revamped curriculum to cater to the specific needs of the students community. Outstanding performance of the students in academics and extension activities has enabled the college to emerge one of the premier institutions of higher learning.</p> <p>ABOUT THE DEPARTMENT The Post Graduate and Research Department of Mathematics, D G Vaishnav College, Chennai has been vigorously engaged in both research and teaching. The department has energetic and dedicated faculty members who actively involved in research areas like Complex Analysis, Number Theory, Mathematical Analysis, Fuzzy Sets, Fuzzy Optimization, Petri nets, Information Security, Differential equations, Wavelets and Numerical Methods. The department offers M.Sc. in Mathematics and B.Sc. in Mathematics.</p> <p><u>Chief Patron</u></p>  <p>Shri. Ashok Kumar Mundhra Secretary</p> <p><u>Patron</u></p>  <p>Dr. S. Santhosh Baboo Principal</p>	<p>JAI SHRI KRISHNA DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE (AUTONOMOUS) CHENNAI 600 106. College with Potential for Excellence Linguistic Minority Institution Affiliated to University of Madras</p>   <p>National Webinar on "An Introduction to Stochastic Calculus"</p> <p>Date: 20th March, 2021. Time: 10:30 A.M – 12:00 Noon</p> <p>Organized by: Post Graduate & Research Department of Mathematics D.G. VAISHNAV COLLEGE</p>
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- National Webinar on "An Introduction to Stochastic Calculus" was presented by Dr. N. Hema Retired, Assistant Professor, Department of Mathematics, D.G. Vaishnav College, Chennai on 20th March 2021. The webinar was attended by 17 faculty participants 26 research scholars and 110 students.



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National Webinar on
Graphs from Algebraic Structures
Presented by

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DR. G. KALAIMURUGAN
Assistant Professor
Department of Mathematics
Thiruvalluvar University
Vellore 632115.

DATE: 27th March 2021 **TIME: 10.30am to 12 Noon**
Registration is free and E Certificate will be given to all Participants
Organising Secretary
Dr. S.U.Malini
Assistant Professor

Shri. Ashok Kumar Mundhra Secretary	Dr.S.Santhosh Baboo Principal	Prof. R.Venkataramanan Convenor & Head
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- National Webinar on “Graphs from Algebraic structures” was presented by Dr. G. Kalaimurugan, Assistant Professor, Department of Mathematics, Thiruvalluvar University, Vellore on 20th March 2021. 20 faculty participants 31 research scholars and 96 students were registered for this Webinar.



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National Webinar on
Fuzzy Mathematics-Applications & E-resources

Presented by

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Dr. T. Bharathi
Assistant Professor, Department of Mathematics,
Loyola College, Chennai - 600034.

DATE: 3rd April 2021 TIME: 10.30 am to 12 Noon

Registration is free and E Certificate will be given to all Participants

Organising Secretaries

Mr.R.Krishna
Assistant Professor

Mr.S. Rajasekar
Assistant Professor

Shri. Ashok Kumar Mundhra
Secretary

Dr.S. Santhosh Baboo
Principal

Prof. R.Venkataramanan
Convenor & Head

- National Webinar on “Fuzzy Mathematics - Applications and E- resources” was presented by Dr. T. Bharathi, Assistant Professor, Department of Mathematics, Loyola College, Chennai on 3rd April 2021. 20 faculty participants 31 research scholars and 96 students were registered for this Webinar.



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On Graceful Tree Conjecture

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Our Telegram group

[Click here](#) to
Register







Dr. G. Sethuraman
Professor, Department of Mathematics,
CEG Campus,
Anna University, Chennai - 25

Date: 10th April 2021 Time: 10.30 am to 12.00 Noon
Registration is free and E-Certificate will be given to all Participants


Shri. Ashok Kumar Mundhra
Secretary


Dr. S. Sarithosh Baboo
Principal
Organizing Secretary
Dr. B. Abirami


Prof. R. Venkataramanan
Convenor & Head

- National Webinar on Graceful Tree Conjecture was presented by Dr. G. Sethuraman, Professor, Department of Mathematics, CEG Campus, Anna University, Chennai. More number of Research Scholar, Faculties and Students were participated in this webinar.



FREE ONLINE COACHING CLASS



➤ **C⁴ – Chase, Conquer, Crack CSIR- NET is a free online coaching class for NET aspirants of Mathematical Sciences.** The series of online classes was inaugurated by the Principal Capt. Dr. S. Santosh Baboo, on 4th October 2020. The programme is a series of class conducted every week Saturday from 6.00 pm to 8.00 pm and Sunday from 11.00 am to 1.00 pm for the benefits of NET Aspirants. The topics include Analysis, Linear Algebra, Topology, Complex Analysis, Functional Analysis, Ordinary differential equations, Linear Integral equations and so on. More than 537 participants registered for this programme. So far 35 sessions have been conducted. The sessions were handled by Dr. K. A. Venkatesh, Dr. M. Marudai, Dr. N. Sridharan, Dr. Karuppiah Kannappan, Dr. C. Elango, Mr. Gnanaprakasam, Dr. R. Sivaraman, Dr. S.P. Vijayalakshmi, Dr. S. Hariharan, Dr. S. VaithyaSubramanian, Mr. P. Thirumal.

**All the Programmes can be viewed in
DGVC Maths You tube Channel**



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TEACHERS' CLASS

The purpose of Teacher's Class is to have intra and interdisciplinary collaborative research on open problems. The Teachers' Class was inaugurated on 9th March 2021 by Principal Dr. S. Santhosh Baboo. Principal emphasized the importance of providing solutions to real world problems through mathematics. He also mentioned about the role of mathematics in data science and data Analytics. The teaching and learning process of current situation is to teach the student through applications.





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MATHCIPHER

MATHCIPHER – Inter collegiate students technical event of PG & Research Department of Mathematics, D G Vaishnav college, Chennai was successfully conducted on 18th March, 2021.



MATHCIPHER – Inter collegiate students technical event of PG & Research Department of Mathematics, D G Vaishnav college, Chennai was successfully conducted on 18th March, 2021. The programme started at 9.30 AM with Thamizhthai

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Vazhthu and college prayer followed by Lighting of Lamp by the dignitaries of the event. The Secretary of Mathciph Mr. Naveen Prakash gave the welcome address. Prof. M. Devika had given the inaugural speech and the presidential address was delivered by Dr. S. Santhosh Baboo, Principal, D.G. Vaishnav College. Mr. Ananth Ram, Director-cum-Actor was the special invitee and he gave the invited speech along with Mr. Sri Haran Balan, Director of Madura travel services, Chairman of Tourism Committee India.

Totally, there were 9 events conducted and around 35 colleges were invited. The events were started around 10.30 AM and ended around 2.30 PM. The number of colleges registered for the events and the prize winners of each event have been summarized below.

Sl. No.	Event	No. of Teams Registered	First Prize	Second Prize
1	Math Relay - Matharon	4	Guru Nanak College	Ramakrishna Mission – Vivekananda College
2	Paper Presentation	6	Ramanujan Institute	Shri Krishnaswamy College
3	Quiz	6	Guru Nanak College	Ramanujan Institute for Advanced Study in Mathematics
4	Shipwreck	5	St. Thomas College of Arts and Science	Ramakrishna Mission – Vivekananda College
5	IPL Auction	5	Ramanujan Institute for Advanced Study in Mathematics (Shift 1)	Ramanujan Institute for Advanced Study in Mathematics (Shift 2)
6	Sherlock Homes	6	Ramanujan Institute for Advanced Study in Mathematics	Ehiraj College for Women
7	Math Tunes	5	Ethiraj College For Women	St. Thomas College of Arts and Science
8	Math Modelling	5	Ramanujan Institute for Advanced Study in Mathematics	Guru Nanak College
9	Math π Rates	7	Ramanujan Institute for Advanced Study in Mathematics	Guru Nanak College

The valedictory function was started around 3.00 p.m. with the prize distribution for the winners of the events. The prizes were given by Prof. M. Devika, Dr. N. Jayanth Karthik, and Dr. R. Sivaraman of PG & Research Department of Mathematics, D. G. Vaishnav College, Chennai. Also Prof. B. Sangeetha, HoD in-charge of Department of Mathematics with Computer Applications also joined the presentation ceremony. Dr. S. Hariharan, addressed the gathering and the programme was ended with the vote of thanks from Joint Secretary of Mathciphil, Mr. Jagannathan with the National Anthem.

Inaugural Session:



Lighting of Lamp:

Welcome Address: Mr. M. Naveen Prakash



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Inaugural Speech: Prof. M. Devika,

Felicitation:





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Presidential Speech: Principal, D. G. V.

Chief Guest Felicitation:



Chief Guest Address: Mr. Ananth Ram
Balan

Chief Guest Address: Mr. Shri Haran



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Presentation Ceremony:





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Valedictory Function:



Prize Distribution:



Valedictory Address: Dr. S. Hariharan

Vote of Thanks: Mr. M. Jaganathan



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MATHEMATICS CLUB

BRAMMAGANITH



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DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE
(Autonomous) CHENNAI – 600 106.
PG AND RESEARCH DEPARTMENT OF MATHEMATICS
ORGANIZING

Guest Lecture on
**Petri nets -Fundamental Models and
its Applications**

Organizer ——— | ——— Speaker for the day

PROF. R.VENKATARAMANAN,
Head, Dept. of Mathematics
D. G. Vaishnav college,
Chennai – 600106.

Dr. P. USHA
Assistant Professor
Dept. of Mathematics
D. G. Vaishnav college,
Chennai – 600106.

Open to Faculty Members of the Department of Mathematics, III UG, PG and M.Phil. Students
All are invited

Date
18.07.2020

Join in Google meet
<https://meet.google.com/jxy-esdb-diz>

Time
10.30 am -12 noon

- Guest Lecture was organized on 18th July 2020 and the lecture was about Petrinets – Fundamental Models and its Application by Dr. P. USHA, Assistant Professor, Department of Mathematics D.G. Vaishnav College. She explained about different models of Petrinet and its applications. Second year, Third year UG students and Second year PG students were participated.



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Post Graduate and Research Department of Mathematics
ORGANIZING GUEST LECTURE ON

BASE 12

ORGANIZER: PROF.R.VENKATARAMANAN,
Head, Dept.of Mathematics
D.G.Vaishnav College

SPEAKER OF THE DAY: Lt.G.SOMASUNDARA ORI,
ASST.PROFESSOR, Dept. of Mathematics
D.G.VAISHNAV COLLEGE

DATE:20-82020@ 9-10am
JOIN IN GOOGLEMEET:
https://www.youtube.com/watch?v=ijD_UOo_s5UE

Open to Faculty Members , UG& PG students of Dept.Of Mathematics
ALL ARE INVITED

- Guest Lecture on “Base 12” was presented by Lt. G. SomaSundara Ori Assistant professor, Department of Mathematics D.G. Vaishnav College on 20th August . In his presentation he explained how every number can be represented in base 12 as we represent every number in base 2(binary) and base 10 and he also explained the various application of these numbers. In this lecture UG II and III year students and PG II student’s participated and this lecture kindled the mind of young students using different approach.

UPCOMING EVENTS



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- Series of Webinars to be conducted on all Saturdays
- C⁴ – Chase, Conquer, Crack CSIR- NET, free online coaching class for NET aspirants of Mathematical Sciences.
- Mathematics club named “BRAHMAGANITH” was formed by the department. The activities of the mathematics club will be pursued in the forthcoming academic year.

STUDENTS CORNER

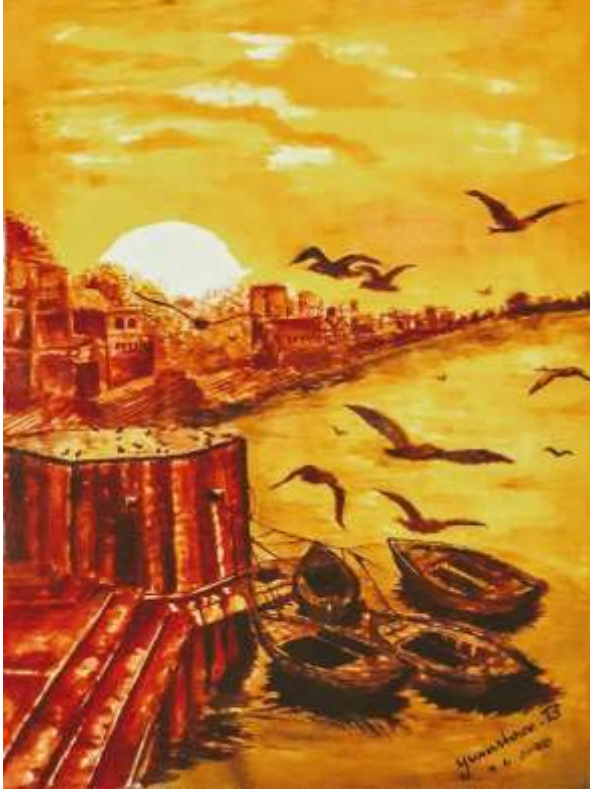


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Yuvashree. B (III B.ScMaths(MPC))



Nirin Kumar II M.SC Maths



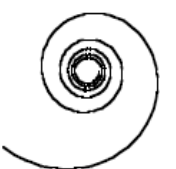



Articles

Splendid Spirals

P. Vishali, II M.Sc. Mathematics, D.G.Vaishnav College

Among all shapes that we witness in nature, one of the shape which often shows up are Spiral shapes. There are abundant spirals present in gigantic galaxies as well as tiny DNA molecules. Here are some of the most famous spirals that we often find along with their mathematical equations, pictures and examples where we find in our life.

Name of Spiral	Equation	Shape	Some Examples
Logarithmic Spiral (Equiangular Spiral or Growth Spiral)	$r = ae^{b\theta}$		Nautilus Shell Snail Shell Sunflower Florets Elephant's Tusk Ram's Horn Rhinoceros' Horn Cat's Claw Pinecone Bracts Artichoke Bracts Pineapple Scales
Archimedes' Spiral	$r = a\theta$		Coiled Rope Watch Spring Ionic Column Capitol Celtic Art Spirals
Hyperbolic Spiral (Inverse Spiral)	$r = \frac{a}{\theta}$		Fiddlehead Fern Eye of Horus Symbol
Fermat's Spiral (Parabolic Spiral)	$r^2 = a^2\theta$		Celtic Art Double Spiral Mazes



Viewing Heart Mathematically

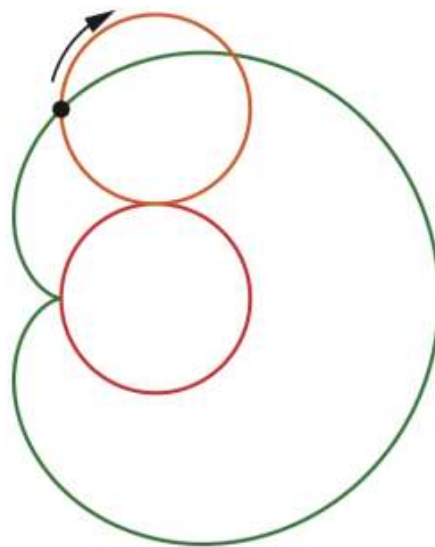
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In our day to day life, we often recognize a character of a good person by saying “Man of Good Heart”. But have you ever thought of the possibility of viewing heart mathematically?

In fact, there is such a possibility, thanks to a curve called “cardioid”. The term “cardioid” refers to being “Heart Shaped”. This is the reason why we call doctors who were specialists in heart surgeries as “Cardiologists”. In this article we try to know about this interesting curve.

Roll a circle around another circle of the same radius. A marked point on the first circle traces a curve called a cardioid. (In the figure shown aside we rolled the orange circle around the red circle to draw the green cardioid.) This beautiful heart-shaped curve shows up in some of the most unexpected places. Grab a cup of coffee and we'll show you some.

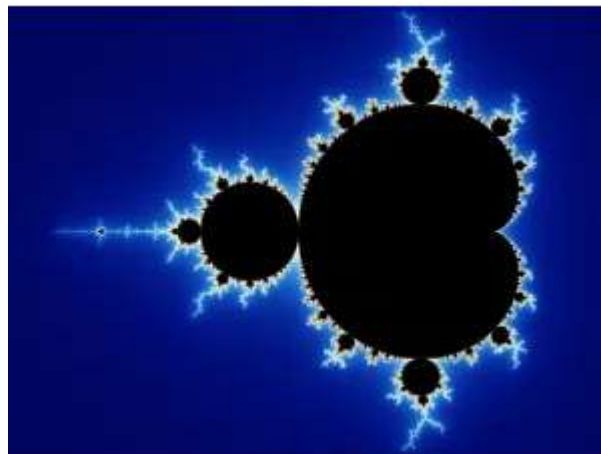


We do not know who discovered the cardioid. In 1637 Étienne Pascal—Blaise's father—introduced the relative of the cardioid, the limaçon, but not the cardioid itself. Seven decades later, in 1708, Philippe de la Hire computed the length of the cardioid—so perhaps he discovered it. In 1741, Johann Castillon gave the cardioid its name.

Got your coffee? Turn on the flashlight feature of your phone and shine the light into the cup from the side. The light reflects off the sides of the cup and forms a caustic on the surface of the coffee. This caustic is a cardioid.

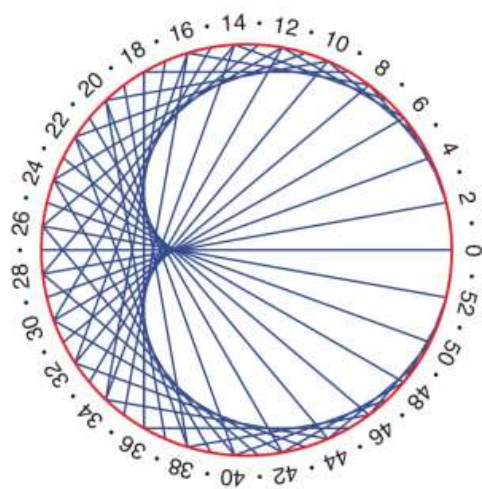


The Mandelbrot set (shown below) is one of the most beautiful images in all of mathematics. It is the set of complex numbers c such that the number 0 does not diverge to infinity under repeated iterations of the function $f_c(z) = z^2 + c$. The Mandelbrot set consists of a heart-shaped region with infinitely many circles, spiny antennae, and other heart-shaped regions growing off of it. What shape is that main heart-shaped region? It's a cardioid.



Cardioids even show up in audio engineering. Sometimes engineers need a uni-directional microphone—one that is very sensitive to sounds directly in front of the microphone and less sensitive to sounds next to or behind it. When they do, they reach for a *cardioid microphone*. The microphone is so-named because the graph of the sensitivity of the microphone in polar coordinates is a cardioid.

We now generate this fabulous curve through an activity.



Begin with a circle (the red circle). Mark a certain number of evenly spaced points around the circle, N , say, and number them consecutively starting at some point P : 0, 1, 2, ..., $N-1$. Then for each n , draw a line between points n and $2n \pmod{N}$. In our example, $N = 54$, so we would join points 5 and 10, 19 and 38, and 31 and 8 (since 8 is $62 \pmod{54}$). The envelope of these lines is a cardioid. Similarly, there are varieties of other ways that we can make in generating cardioid curves.

As an interesting project, students can take big circle and take for example say $N = 60$ or $N = 80$ points and draw such similar curves which will eventually generate cardioids. Having these many properties, it is no wonder, that cardioid resembles the most vital part of the human body.

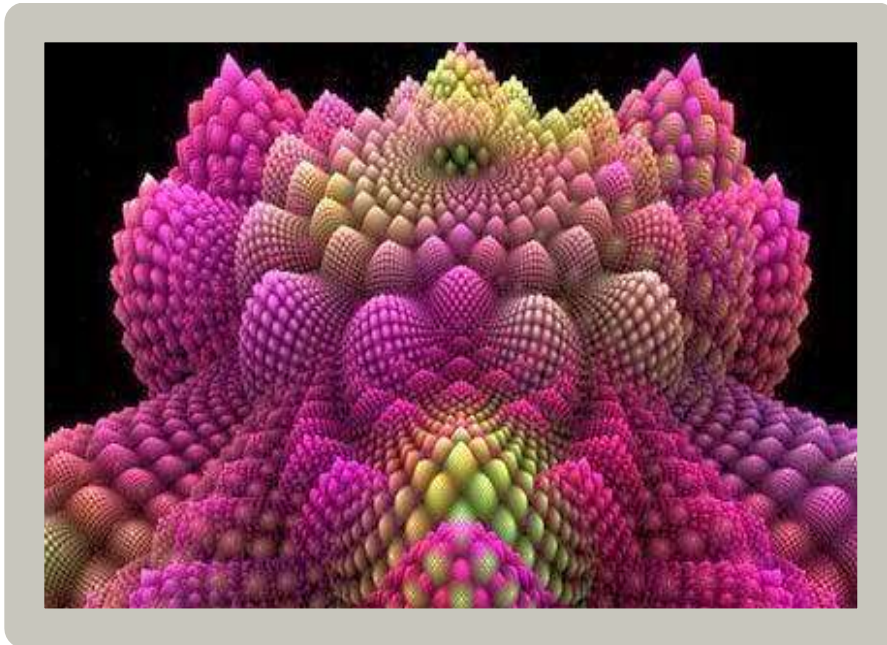


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Students! Thank you for rocking support

