

Vichar Vikas Mandal's

Mahatma Gandhi Mahavidyalaya, Ahmedpur, Dist.Latur, Maharashtra, India.



Department of Mathematics



National Conference on Mathematical
Mathematical Techniques and Its Applications
(NCMTA2021)

(December 21, 2021)



Mr. Audumbar. K. Mule

Head

Department of Mathematics

Mahatma Gandhi Mahavidyalaya, Ahmedpur, Dist. Latur Maharashtra, India.

Web: www.mgmahmedpur.org Phone no: 9970572627, Pin: 413515 Email: maths.mgma@gmail.com



Event: National Conference

Sr.	Title	Information		
No				
1.	Name of Department	Mathematics		
2.	Title of Event	National Conference on Mathematical		
		Techniques and Its Applications		
		(NCMTA2021)		
3.	Date or Duration	21 December 2021		
4.	Venue of the Event	Auditorium, Seminar hall, Mathematics		
		Dept.		
5.	Sponsor/ Collaboration	SRTMUN, and Vichar Vikas Mandal,		
		Ahmedpur		
6.	Level of Event	National		
7.	Aims/Objectives of the	The main aim of this conference is to		
	Event	provide impetus, and motivation and to		
		bring together Researchers and Scientists		
		working in the field of mathematics and its		
		applications by providing a forum for the		
		academic exchange of ideas and recent		
		research works		
8.	Beneficiaries/	Teachers, Research Scholars, PG students		
	Participants			
9.	Number of Participants	112		
10.	Name of the keynote	Dr. D.D. Pawar		
	speaker			
11.	Name of Organizing	Mr. Audumbar. K. Mule		
	Secretary			
12.	Photographs	Attached		
13.	Evidence Produced	Sanction Letters		
		• Certificates		
		• Paper Cut List of students		
		 Photographs 		
		• Information		



Background

ABOUT DEPARTMENT: The Department of Mathematics is one of the pioneering and most distinguished departments in the college, actively involved in research and in carrying out preside teaching. The Department was established with the opening of the college in the year 1969 most of the principals of the college have been from the subject of Mathematics. The Dept. has a Mathematics research centre and several students have completed their research work leading up to a Ph.D. degree in Mathematics. By Dept. established SWAYAM/NPTEL Local Chapter with the help of IIT Madras. It also has an IIT JAM cell conducting free online classes permitting different college students. The vision of the department is to become centre of excellence in Mathematics through high-quality research and teaching.

ABOUT CONFERENCE: The aim of this conference NCMTA-2021 is to bring together learned mathematicians, scientists, engineers, researchers from industry and research scholars working in the different areas of mathematics at a common platform. This will facilitate the exchange of ideas regarding the research findings and new advances in mathematics in the wide area of mathematics, sciences and engineering and to discuss the practical challenges encountered in the different domains of applications and the solutions adopted. Further, it will provide an opportunity to enhance collaboration among.

Aims / Objectives:

- 1. NCMTA 2021 aims to bring academics, professionals, and scientists to share and present the latest developments in the field of mathematics.
- 2. The main aim of this conference is to provide impetus, and motivation and to bring together Researchers and Scientists working in the field of mathematics and its applications by providing a forum for the academic exchange of ideas and recent research works.
- 3. At this Conference the participants will be able to present their research findings and share their experiences in the fields of Mathematical Sciences.
- 4. This Conference will provide an outstanding opportunity to experience the latest development in the field of Mathematics.
- 5. In this conference we shall make a platform for the Indian scientist and foreign scientist for the further research and new syllabus communication.
- 6. The purpose of this Conference is to communicate the current research in mathematics and its application for other branches of Science. Also its is essential to Indian Universities to adopt the new technology for the solution of nonlinear problems in mathematics by using the software such as MATLAB, Farewell, LINGO, MAPLE, MATHEMATICA, CIPLEX, SCILAB etc. this electronic technology is now days using various universities for finding the solution of problems of mathematical analysis.
- 7. Differential equations have a lot of applications in different scientific fields. This conference wi devoted to such applications.
- 8.A number of phenomena in nature (physics, chemistry, biology) and in society (economic) result in problem leading to study of linear and Nonlinear differential equations.
- 9. This Conference is aimed to bring researchers and professionals to discuss recent developments in both theoretical & applied mathematics and to create a professional knowledge exchange platform between mathematicians.

Taking into consideration the guidelines of the programme, the Conference was planned with the following goals:



- To continue outreach activities with the goal of establishing a Research culture in the departments and Researchers.
- To identify ways to bridge the gap between the old and new research in mathematics
- To identify ways and mechanisms to support in the region, using the conference and workshop mechanism
- To obtain consensus on strategies about the applications of recent research in mathematics in India
- The numerical and geometrical solution will express the details of the nature of the functions for the researchers and one can take the applications related to the variations problems in the various field. One of the outcomes of our Conference that we will discover the MATLAB programs for finding the nature of the nonlinear types problems. Such lot of problems is available in the literature which we can solve by the MATLAB programming in geometrical solutions.

The proposed results were:

- To increase the quality research in mathematics.
- To receive guidance on the recent research in mathematics and application for researchers.

To achieve the goals and proposed outcomes, an operational structure for the conference was set up combining presentations and panels during plenary sessions and group sessions to discuss specific issues that the Organizing Committee had identified as relevant. The identification and subsequent selection of speakers and topics for discussion in group sessions were done by the Organizing Committee.

The conference brought together experts from the mathematics, various branches of mathematics. Hence, the conference met the goal to bring together representatives of the mathematicians, research students from the various universities.

Participants

The conference brought together more than 112 (Offline +Online) representatives from various institutions in states and universities from India . The Vice-Chancellor of the SRTMU, Nanded is Dr. Uddhav Bhosle attended the conference as Chief Guest of the inaugural function. Dr. D. D. Pawar and Dr. R N Ingale acted as Chief Guest of the valedictory function and President, Hon. Adv Kishanrao Bendkule (President, Vichar Vikas Mandal, Ahmedpur) of this conference. Various academics, professionals, practitioners and researchers and experience one of the leading Conferences attended by participants from all over the India.

The event brought together representatives from various universities BOS members HOD of mathematics, Teachers in mathematics, and Research students from: Dr. Babasaheb Marathwada University Aurangabad, Swami Ramanand Teerth Marathwad University Nanded, etc universities. The event benefited from the participation of experts Different mathematics teachers, Researchers, and Research students

It is important to emphasize that the financial support provided by Swami Ramanand Teerth Marathwad University Nanded.

Inauguration and Plenary Presentations



The inauguration of the workshop was conducted by the following authorities:

- President: Hon. Kishanrao Bendkule (President, Vichar Vikas Mandal, Ahmedpur.)
- Chief Guest: Hon. Prof. Dr. Udhav Bhosle (Vice Chancellor, SRTMU, Nanded.)
- Keynote Speaker: Prof. Dr. D.D Pawar (SRTMU Nanded)
- Special Invitees: . Dr L M Waghmare (Dean Science and Technology SRTMUN.)

Dr J.N Salunke (Former director school of mathematical SciencesSRTMUN)

The Keynote addresses were made by Prof. Dr. D.D. Pawar (SRTM University.), . In the keynote address Prof. Dr. D D Pawar Speeches on Fractional Calculus.

Valedictory function and feedback:

At the end of the conference valedictory function was held. In this valedictory function many mathematician give the feedback on the overall workshop.

President: Dr Sarjerao Shinde (Registrar SRTMUN.)

Special Invitees: Hon. Uddhavrao Narsingrao Deshmukh (Joint Secretary, VVM, Ahmedpur)

Convener: Dr A.M Shinde (Principal, Mahatma Gandhi Mahavidyalya, Ahmedpur.)

Organizing Secretary: Mr Audumbar K.Mule (HOD, MGM Ahmedpur)

Outcomes of This Conference:

- 1. Due to this conference our rural area's faculties are now turn towards research apart from regular mathematics teaching.
- 2. This conference provided an important knowledge and new ideas about Applied Mathematics & Modeling, Statistics & its Applications, Analysis & its Applications and Geometry & its Applications etc. to the participants.
- 3. Due to the fparticipants involvement in this conference and their knowledgeable talks we have got the understanding of mathematics and their applications in various branches of sciences.
- 4. The teachers and research students of mathematics got the knowledge about MATLAB, SCILAB, LATTEX, MAPLE, MATHEMATICA, CIPLEX, LINGO, Mathematical Computational Techniques and various mathematical software.
- 5. With the help of such software in mathematics we can develop the new methodology for solving the problems.
- 6. The present conference gave the opportunity for researchers, teachers and professionals to present their research papers, new ideas and their experiences about their various topics in mathematics.
- 7. Graduate and Post Graduate students have got the idea about paper presentation and research.
- 8. This conference helps to motivate students, teachers, research scholars and professionals with new innovative idea and to create knowledge and recent works in the various fields of mathematics.
- 9. This conference provided an outstanding opportunity to experience the latest development in the field of mathematics to the participants.



- 10. During this conference the participants got the ideas and knowledge about both theoretical and applied mathematics.
- 11. This conference deeply knowledgeable for the researchers in the field of Mathematical and its application
- 12. During this conference the participants got the new innovative ideas about Mathematical Physics which covered the topics as Fluid Mechanics, Classical Mechanics etc.
- 13. Differentials equations have a lot of applications in different scientific fields. This conference provided an immense application of differential equations to the participants.
- 14. This conference discussed recent developments in and latest research on mathematics, statistics and their applications

Conference Schedule:



Vichar Vikas Mandal's
Mahatma Gandhi Mahavidyalaya,
Ahmedpur, Dist-Latur (Maharashtra)

National Conference on Mathematical Techniques and Applications NCMTA-2021

NCMTA-2021

(Under National Mathematics Day 2021 Celebration)

Sponsored By

Swami Ramanand Teerth Marathwada University, Nanded

Organized By

Department of Mathematics

Mahatma Gandhi Mahavidyalaya, Ahmedpur Dist.-Latur

21st December 2021

Schedule

Time	Programme	Venue
09:00 am to 10:00 am	Registration	In front of Sport Department
10:00 am to 10:45 am	Inaugural Function	Auditorium Hall
10:45 am to 11:30 am	Keynote Address	Auditorium Hall
	Keynote Speaker: Dr. D. D. Pawar Chair Person: Dr. B. B. Kulkarni	
11:30 am to 12:00 noon	Invited talk-01	Seminar Hall
	Invited Speaker: Dr. B.R. Sontakke Chair Person: Dr. S. M. Jogdand	
12:00 noon to 12:30 pm	Invited talk-02 Invited Speaker: Dr. J. N. Salunke Chair Person: Dr. R. N. Ingle	Seminar Hall
12:30 pm to 1:00 pm	Invited talk-03 Invited Speaker: Dr. S. M. Jogdand Chair Person: Dr. D. S. Palimkar	Seminar Hall
1:00 pm to 2:00 pm	Lunch Break	Hotel Dwarka, Sanskriti Gardan Hall
2:00 pm to 4:00 pm	Technical sessions (Offline mode)	1
2:00 pm to 2:30 pm	Invited talk-04 Invited Speaker: Dr. B. D. Karande Chair Person: Dr. S. S. Bellale	Seminar Hall
2:30 pm to 4:00 pm	Oral Paper Presentation Chairpersons Dr. J. N. Salunke Dr.R.G.Metkar Moderator: Dr.S.B.Chavan	Seminar Hall
		Tea Point
4:00 pm to 4:10 pm	Tea Break	Auditorium Hall
4:10 pm to 5:00 pm	Valedictory Function Certificate Distribution	Auditorium Hall
5:00 pm	Certificate Distribution	



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Mahatma Gandhi Mahavidyalaya, Ahmedpur Dist-Latur

Parallel Technical sessions (Online mode)

Time	Programme	Venue
2:00 pm to 2:30 pm	Invited talk-01	Online Mode
	Invited Speaker: Porf. Bivudutta Mishra	Platform
	Chair Person: Dr. V. C. Borkar	Google Meet
	Moderator : Dr. S. R. Holkar	
2:30 pm to 3:00 pm	Invited talk-02	Online Mode
	Invited Speaker: Dr. Vinod Kumar	Platform
	Chair Person: Dr. Sharad Jagtap	Google Meet
	Moderator : Dr. Yogesh Muley	
3:00 pm to 3:30 pm	Invited talk-03	Online Mode
	Invited Speaker: Dr. B Krishna Reddy	Platform
	Chair Person: Dr. B Surendranath Reddy	Google Meet
	Moderator: Mr. Prashant Waghmare	
3:30 pm to 4:30 pm	Online Oral Presentations	Online Mode
	Chairperson: Dr. V. N. Mishra	Platform
	Moderator: Dr. M. N. Menkudle	Google Meet
4:30 pm to 5:30 pm	Online Oral Presentations	Online Mode
1.50 p to 5.50 p	Chairperson : Dr. Adesh Kumari	Platform
	Moderator: Dr.V.D.Borgavkar	Google Meet

Acknowledgments

It has been our pleasure to host the participants of the conference at Mahatma Gandhi Mahavidyalaya, Ahmedpur . I am thankful to all the participants for coming to attend the conference. We have been fortunate to have some of the eminent person from the India. I am sure that the participants must have benefited by attending this confer

Mr. Audumbar K Mule (Organizing Secretary-NCMTA 2021) Head, Dept. of Mathematics,



Vichar Vikas Mandal's Mahatma Gandhi Mahavidyalaya,

Ahmedpur, Dist. Latur (Maharashtra)

(NAAC Re-accredited with 'A' Grade)

National Conference on Mathematical **Techniques and Applications**

(Under National Mathematics Day 2021 Celebration)



NCMTA - 2021 (21st December, 2021) SPONSORED BY SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED.



Organized by

Department of Mathematics

Mahatma Gandhi Mahavidyalaya, Ahmedpur-413515, Dist. Latur (Maharashtra) India www.mgmahmedpur.org



ABOUT COLLEGE: Vichar Vikas Mandal has established the Mahatma Gandhi Mahavidvalava in June 1969 to fulfill the needs of higher education of the students coming from rural area and to provide educational facilities suitable to achieve agricultural and industrial development. To keep pace with time, the college has introduced new courses to meet the growing needs of the students for higher education in different fields.

For the dissemination of knowledge among the students, the college implements various curricular, co-curricular & extracurricular activities. This also helps to students to achieve all-round development & to raise their academic standard. The college has also implemented various schemes & provided research facilities. National Assessment and Accreditation Council has given 'A' Grade to this college.



ABOUT DEPARTMENT: The Department of Mathematics is one of the pioneering and most distinguished departments in the college, actively involved in research and in carrying out preside teaching. The Department was established with the opening of the college in the year 1969 most of the principals of the college have been from the subject of Mathematics. The Dept. has a Mathematics research center and several students have completed their research work leading up to a Ph.D. degree in Mathematics. By Dept. established SWAYAM/NPTEL Local Chapter with the help of IIT Madras. It also has an IIT JAM cell. From the academic year 2022-23 Dept. will offer M.Sc. Mathematics. The vision of the department is to become a center of excellence in Mathematics through high-quality research and teaching.

ABOUT CONFERENCE: The aim of this conference NCMTA-2021 is to bring together learned mathematicians, scientists, engineers, researchers from industry and research scholars working in the different areas of mathematics at a common platform. This will facilitate the exchange of ideas regarding the research findings and new advances in mathematics in the wide area of mathematics, sciences and engineering and to discuss the practical challenges encountered in the different domains of applications and the solutions adopted. Further, it will provide an opportunity to enhance collaboration among researchers not only from the various parts of the country but also with those from abroad. The scientific program will consist of Keynote/plenary/invited lectures and parallel sessions for contributed presentations. The main emphasis will be on the vibrant implicational aspects of applied mathematics in relation to diverse areas of engineering and sciences.

Theme of the NCMTA-2021 (But not limited to)

Algebra, Analysis, Applied Probability and Stochastic Process, Cryptography and network Security, Information theory and Application, Coding Theory, Fluid Dynamics and Solid Mechanics, Relativity Theory, Fuzzy Set Theory and Application Graph Theory and Application, Operations Research and Optimization, Techniques, Fractals, Financial Mathematics, Dynamics System, Mathematical Modeling, Mathematical Biology, Mathematical Physics, Numerical analysis, Differential Equations, Fractional Calculus, Integral Transforms, Number Theory, Mathematical and computational Chemistry.

Call for Papers and Publication of Research Paper

Interested participant are requested to submit the abstract of their research paper in MSWord 2007 or MS-Word 2010 including paper title, names of all the authors along with their affiliation and email address of the corresponding author. The font for text should be Times New Roman with font size 12 and 1.5 line spacing. The title should be 14 font sizes. The abstract should not exceed the limit of 300 words & send abstract on national conference email id ncmta2021@gmail.com on or before 15 December, 2021. The articles in the national conference will be published in peer-reviewed scientific journal. Balaghat Mathematical Sciences Development Societies, International Journals of Universal Print. This journal is committed to the highest ethical publishing standards, there is no Publication or processing fee for details contact to Editorial Board Dr. S.S. Bellale (+919405417417)

Link for Registration:

https://forms.gle/jKiUucG2teGCGQK1A



Fees Payment Details:

Registration Fee: Rs 500 (For Presenter) & Rs 300 (For Attendee)

Account Name: Principal MGM Ahmedpur, Bank Name: Maharashtra Gramin Bank,

Branch Name: Ahmedpur, Account Number: 80015395439 IFSC Code: MAHG0004324



Our Patrons

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NOITATION



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NCMTA-2021

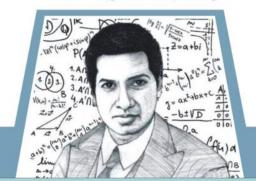
(21st December, 2021)

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Department of Mathematics

Mahatma Gandhi Mahavidyalaya, Ahmedpur-413515,

Dist. Latur (Maharashtra) India www.mgmahmedpur.org





INAUGURAL PROGRAMME

Tuesday, 21/12/2021 Time 10 AM

Department of Mathematics Mahatma Gandhi Mahavidyalaya, Ahmedpur Cordially invite you to the inaugural function of National Conference on Mathematical Techniques and Applications (NCMTA-2021) Organized by Department of Mathematics Sponsored by Swami Ramanand Teerth Marathwada University Nanded.



Inaugurator

Hon. Dr. Uddhav V. Bhosale Vice Chancellor, S.R.T.M. University Nanded.



President

Adv. Shri. Kishanrao Bendkule President, Vichar Vikas Mandal Ahmedpur.





Shri. Yuvraj Tatesaheb Patil

Vice president, V.V.M.



Shri Vasantrao Dnyanoba Phad

Joint secretary, V.V.M.



Shri. VijayraoManikrao Page

Treasurer, V.V.M.

Special Invitee



Dr. L.M. Waghmare Dean Science and Technology, S.R.T.M.U.N.



Dr. J.N. Salunke Former Director School of Mathematical

Sciences, S.R.T.M.U.N.

Keynote Speaker



Dr. D.D. Pawar

Director School of Mathematical Sciences, BOS Chairman .S.R.T.M.U.,Nanded.

Convener



Capt.Dr. Anita M. Shinde Principal



Prof. Bivudutta Mishra

nent of Mathematics Birla Institute



Invited Speakers

Dr.B.R.Sontakke



Dr. B Krishna Reddy

BOS Chairman, Dr. B.A.M.U., Aurangabad Department of Math



Dr. S. M. Jogdand



te Member, S.R.T.M.U. Nanded Maharashtra Udaygiri.M. Udgir BOS & Academic Council Member S.R.T.M.U. Nanded



Dr. Vinod Kumar



Dr.S.S.Bellale

PGDAV College, University of Delhi, New Delhi Vice Principal Dayanand Science College, Latur.[MS]



Valedictory Programme

Time 04 PM



PRESIDENT DR. SARJERAO SHINDE Registrar, S. R. T. M. University, Nanded. **Guest of Honor**



Adv. Shivsamb Shivrajappa Chavanda Vice President V.V.M.



Secretary, V.V.M.



Adv. P. D. Kadam Shri. Uddhavrao Narsingrao Deshmukh Joint Secretary, V.V.M.

Chief Guest



Dr. D.D. Pawar Director School of Mathematical Sciences. BOS Chairman S.R.T.M.U., Nanded.



Dr. R. N. Ingale Ex BOS Chairman S.R.T.M.U. Nanded



Capt.Dr. Anita M. Shinde Principal



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Mr.P.B.Babhulgaonkar Vice Principal (Jr)



Dr.M.M.Nivargi Coordinator IQAC



Shri S.B.Suryawanshi Administrative Office Head



Mr. Audumbar K. Mule Organizing Secretary Mob 9970572627











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21st December 2021

INDEX

S.N.	Ab. No.	Abstract Title	Author			
	Invitee Talk					
01	IT-01	Application of sumudu transform on	D. D. Pawar			
		fractional kinetic				
		Equation				
02	IT-02	Non-metricity gravity and the models in cosmological scenario	B. Mishra			
03	IT-03	Some Results in Graph Theory using	J.N. Salunke,			
		Induction	S.S. Bellale			
04	IT-04	Mathematical Model for COVID-19 with	D. D. Pawar,			
		Fractional Order Modified Euler Method	S. G. Hiwale			
05	IT-05	Basic developments in fractional calculus	Bhausaheb R. Sontakke			
06	IT-06	Fixed point results Ψ_{α} of contraction self-	Dr. B Krishna Reddy			
		mills in non-or comedian fuzzy metric spaces				
07	IT-07	Fractional Order Differential Equation and	B.D.Karande			
		Fixed point Theory				
08	IT-08	Blockchain, Security and Privacy	Vinod Kumar			
09	IT-09	Kulkarni Constant	B.B. Kulkarni			
10	IT-10	Applications of Differential Equations in the	Chakradhar Shringare,			
		study of Soil Moisture Diffusion Equations.	Dr. Jogdand S.M.			
		Contributory Talk				
01	CT-01	New class of interacting field cosmological	D. D. Pawar,			
		model in Lyra geometry	R. V. Mapari			
02	CT-02	Exact Solution of Two Dimensional Time-	Bhausaheb R. Sontakke,			
		Space Fractional Order Partial Differential	Vidya N. Bhadgaonkar			
		Equations by Adomian Decomposition				
		Method				
03	CT-03	A new integral transform and its applications	Momin Fasiyoddin Inayat			
04	CT-04	Existence the Extremal Solution for	B. D. Karande,			
		Fractional order Integral inclusion in Banach Algebras	A. F. Siddiqui			



05-07	CT-05,6,7	A study on Structure of k-Chromatic Graphs	BHARATHI S N
08	CT-08	Recognizing Images Using Convolutional	Mr. Tukaram V. Navghare,
		Neural Network (CNN) Deep Learning	Dr. Vinayak A. Jadhav,
		Technique	Dr. Aniket A. Muley
09	CT-09	Existence and Uniqueness of Solution of	V. D. Mathpati,
		Fractional order Differential Equation of	S. S. Zampalwad,
		Finite Delay in Cone Metric Space	Y. H. Shirole
10	CT-10	Existence and Uniqueness of Solution of	R. S. Teppawar,
10	01.10	Conformable Fractional Differential	R. N. Ingle
		Equation	Tt. 11. mgre
11	CT-11	A Study of Authenticated Framework for	Lalit Kumar Som ,
		Vehicle-to-Grid (V2G) communication using	Musheer Ahmad,
		Elliptic Curve Cryptography	Vinod Kumar, and
		Zimpur curvi cryptograpmy	Audumber Kumar Mule
12	CT-12	Entropy Generation in Casson Fluid Flow	Vikas Poply, Preeti
	01.12	Past a Stretching Plate	, mas ropty, rreetr
13	CT-13	Analysis of solutions of Nonlinear Ordinary	Alka S. Kausadikar,
15		Differential Equations with Initial conditions	Rajkumar N. Ingle
14	CT-14	Solution of some Partial differential	Mohmed Zafar Mohmed
14	C1-14	equations Double Sadik transform	Saber
		equations Dodole Sadik transform	Sauci
15	CT-15	Existence, uniqueness, continuous	Siddharth Sudhakarrao
15	C1-13	dependence and ulam stability of mild	Howal
		solutions for an iterative	Howar
		Fractional differential equation	
16	CT-16	A Study of Authenticated EHR Framework	Ram Baksh, Musheer
10	C1-10	using Blockchain Technology for IoMT	Ahmad, Vinod Kumar, and
		using Bioekenam Technology for fowt	Audumber Kumar Mule
17	CT-17	Role of Some Integral transforms in	Dr. Hemant K. Undegaonkar
17	C1-17	Cryptography	Dr.Hemani K.Onaegaonkar
18	CT-18	Title:- New definition of comformable	Mr. Rajratana Maroti
10	01 10	fractional derivative	Kamble
19	CT-19	The Latest Trends and Difficulties in	Samiulla Itoo, Vinod
	0.1.15	Blockchain Technology for Smart Cities and	Kumar, Musheer Ahmad
		Smart Tourism	and Adesh Kumari
20	CT-20	Williamson-Hall (W-H) analysis to calculate	L. H. Kathwate, V. D. Mote
20	0120	crystalline size of undoped and Ni-doped	Z. 11. Ikaniwate, V. B. Wote
		ZnO nanoparticles	
21	CT-21	'Optimized SVD-based Vigorous	Vasant Gaikwad,
		watermarking in the fractional Hartley	Swati Nikam,
		domain"	B. Surendranath Reddy
22	CT-22	Different Method for Solving Assignment	Dr. Janardhan K. Mane
	01-22	Problem and	21. Juliaranan IX. Iviano
		Comparative Study with the Two Existing	
		Method	
23	CT-23	Approximating Solutions of Non Linear First	
43	01-23	Order Abstract Measure Differential	
		Equations by Using Iteration Method	
24	CT-24	MHD Radiative Free Stream Nanofluid Flow	V byati Vinite Malden and
24	C1-24	induced by Chemical Reaction over	Khyati, Vinita Makkar and Naresh Sharma
		manced by Chemical Reaction over	Ivaresii Siiaiiliä



CT-25 Solution of Time fractional Differential Equation Using Homotopy Analysis Method I. K. Mane Santosh V. Nakade Electrical RC Circuit			Stretching Cylinder	ľ
Equation Using Homotopy Analysis Method J. K. Mane Santosh V. Nakade Electrical RC Circuit Santosh V. Nakade	25	OT 25		A. D. Thomas and
CT-26	23	C1-23		
Electrical RC Circuit	26	OT 26		() No. 1 () () () () () () () () () (
CT-27	20	C1-20		Santosh V. Nakade
Plate in a rotating fluid Analysis of a system of non-linear partial differential equations forming shock waves Existence of Mild Solutions for Neutral Functional Mixed Fractional Integrodifferential Evolution Equations A. D. Nagargoje A. D. Nagargoje A. D. Nagargoje A. D. Nagargoje Perike. Venkatratna WHO's fifth new variant of Concern:	27	OT 27		Vissal D Kallassai
CT-28	27	C1-27		Vinod . B. Kulkarni
CT-29 CT-29 Existence of Mild Solutions for Neutral Functional Mixed Fractional Integrodifferential Evolution Equations	20	CT. 20		
CT-29 Existence of Mild Solutions for Neutral Functional Mixed Fractional Integrodifferential Evolution Equations Sequence	28	C1-28		
Functional Mixed Fractional Integrodifferential Evolution Equations 30 CT-30 Analysis on novel SARS-Co-V-2 Variant, WHO's fifth new variant of Concern: - Omicron 31 CT-31 Construction of New Type of Generalized Metric Spaces Situdy of Astable Multivibrator Using PSpice Spice & Top Spice Software's 32 CT-32 Study of Astable Multivibrator Using PSpice Spice & Top Spice Software's Signature Spice	20	CT 20		
Fractional Integrodifferential Evolution Equations CT-30 CT-30 Analysis on novel SARS-Co-V-2 Variant, WHO's fifth new variant of Concern: - Omicron 31 CT-31 Construction of New Type of Generalized Metric Spaces Study of Astable Multivibrator Using PSpice Spice & Top Spice Software's 32 CT-32 Study of Astable Multivibrator Using PSpice Spice & Top Spice Software's 33 CT-33 Data Clustering With Diversified Insights Using PSpice Groups of Student's in Teaching Structure 34 CT-34 A Fuzzy Green Model for Calculating Groups of Student's in Teaching Structure 35 CT-35 Remedial measures for handling variance heterogeneity by use of data transformation Dissociation energy of ground state of cesium iodide molecule using correlation coefficients method 37 CT-37 Analysis of Solutions of Nonlinear Fractional Integrodifferential Equation with NonLocal Conditions 38 CT-38 Anisotropic Behavior of Perfect Fluid in Fractal Cosmology Existence and uniqueness of fixed-point for a contractive type mapping in b-metric space Existence and uniqueness of fixed-point for a contractive type mapping in b-metric space 40 CT-40 DEA Technique and Its Applications in Efficiency Analysis 41 CT-41 Solitary wave solutions of the foam drainage equation by the Laplace decomposition method 42 CT-42 Fuzzy Goal Programming Problem with hyperbolic membership function 43 CT-44 GRAPH THEORY AND ITS APPLICATIONS 45 CT-45 Hyers-Ulam Stability of nth Order System of Vijay b. Patare,	29	C1-29		A. D. Nagargoje
Equations				
CT-30				
WHO's fifth new variant of Concern: - Omicron	20	OT 20		D1
Omicron CT-31 Construction of New Type of Generalized Metric Spaces S. P. Birajdar, S. P. Birajdar, S. P. Spice & Top Spice & Top Spice Software's Dr. Sanjay K. Tupe Spice & Top Spice & Top Spice Software's Dr. Sanjay K. Tupe Spice & Top Spice & Top Spice Software's Dr. Sanjay K. Tupe Spice & Top Spice & Top Spice Software's Dr. Sanjay K. Tupe Spice & Top Spice & Top Spice Software's Dr. Sanjay K. Tupe Spice & Top Spice & Top Spice Software's Dr. Sanjay K. Tupe Spice & Top Spice & Top Spice Software's Dr. Sanjay K. Tupe Dr. Sanjay K. Tupe Spice & Top Spice & S. P. Birajdar, Dr. Sanjay K. Tupe	30	C1-30		
CT-31 Construction of New Type of Generalized Metric Spaces S. P. Birajdar,				Shrinivas Rao Bniksnam
Metric Spaces 32 CT-32 Study of Astable Multivibrator Using PSpice Spice & Top Spice Software's 33 CT-33 Data Clustering With Diversified Insights Using Particle Swarm Optimization 34 CT-34 A Fuzzy Green Model for Calculating Groups of Student's in Teaching Structure 35 CT-35 Remedial measures for handling variance heterogeneity by use of data transformation 36 CT-36 Dissociation energy of ground state of cesium iodide molecule using correlation coefficients method 37 CT-37 Analysis of Solutions of Nonlinear Fractional Integrodifferential Equation with NonLocal Conditions 38 CT-38 Anisotropic Behavior of Perfect Fluid in Fractal Cosmology 39 CT-39 Existence and uniqueness of fixed-point for a contractive type mapping in b-metric space 40 CT-40 DEA Technique and Its Applications in Efficiency Analysis 41 CT-41 Solitary wave solutions of the foam drainage equation by the Laplace decomposition method 42 CT-42 Fuzzy Goal Programming Problem with hyperbolic membership function 43 CT-43 Study of the ground states of GaCl molecule. 44 CT-44 GRAPH THEORY AND ITS APPLICATIONS 45 CT-45 Hyers-Ulam Stability of nth Order System of Vijay b. Patare,	21	CT 21		A A Thombus
Study of Astable Multivibrator Using PSpice Spice & Top Spice Software's Dr. Sanjay K. Tupe	31	C1-31		
Spice & Top Spice Software's 33 CT-33 Data Clustering With Diversified Insights Using Particle Swarm Optimization 34 CT-34 A Fuzzy Green Model for Calculating Groups of Student's in Teaching Structure 35 CT-35 Remedial measures for handling variance heterogeneity by use of data transformation 36 CT-36 Dissociation energy of ground state of cesium iodide molecule using correlation coefficients method 37 CT-37 Analysis of Solutions of Nonlinear Fractional Integrodifferential Equation with NonLocal Conditions 38 CT-38 Anisotropic Behavior of Perfect Fluid in Fractal Cosmology 39 CT-39 Existence and uniqueness of fixed-point for a contractive type mapping in b-metric space 40 CT-40 DEA Technique and Its Applications in Efficiency Analysis 41 CT-41 Solitary wave solutions of the foam drainage equation by the Laplace decomposition method 42 CT-42 Fuzzy Goal Programming Problem with hyperbolic membership function 43 CT-43 Study of the ground states of GaCl molecule. 44 CT-44 GRAPH THEORY AND ITS APPLICATIONS 45 CT-45 Hyers-Ulam Stability of nth Order System of Vijay b. Patare,	22	CT 22		
CT-33	32	C1-32		Dr. Sanjay K. Tupe
Using Particle Swarm Optimization Aniket Muley CT-34 A Fuzzy Green Model for Calculating Groups of Student's in Teaching Structure S. P. Birajdar, A. K. Mule CT-35 Remedial measures for handling variance heterogeneity by use of data transformation CT-36 Dissociation energy of ground state of cesium iodide molecule using correlation coefficients method CT-37 Analysis of Solutions of Nonlinear Fractional Integrodifferential Equation with NonLocal Conditions CT-38 Anisotropic Behavior of Perfect Fluid in Fractal Cosmology CT-39 Existence and uniqueness of fixed-point for a contractive type mapping in b-metric space CT-40 DEA Technique and Its Applications in Efficiency Analysis CT-41 Solitary wave solutions of the foam drainage equation by the Laplace decomposition method CT-42 Fuzzy Goal Programming Problem with hyperbolic membership function CT-44 GRAPH THEORY AND ITS APPLICATIONS Aniket Muley C. K. Dhulgande, S. P. Birajdar, A. K. Mule Dr. Vidya .V. Deshpande S. P. Birajdar, A. K. Mule Dr. Vidya .V. Deshpande S. P. Birajdar, A. K. Mule Dr. Vidya .V. Deshpande heterogeneity by use of data transformation C. T. Londhe, K. N. Shivalkar C. T. Londhe, K. N. Shivalen C. T. Londhe,	22	CT 33		A tich Tangawada and
CT-34 A Fuzzy Green Model for Calculating Groups of Student's in Teaching Structure S. P. Birajdar, A. K. Mule	33	C1-33		
Groups of Student's in Teaching Structure S. P. Birajdar, A. K. Mule CT-35 Remedial measures for handling variance heterogeneity by use of data transformation CT-36 Dissociation energy of ground state of cesium iodide molecule using correlation coefficients method CT-37 Analysis of Solutions of Nonlinear Fractional Integrodifferential Equation with NonLocal Conditions CT-38 Anisotropic Behavior of Perfect Fluid in Fractal Cosmology CT-39 Existence and uniqueness of fixed-point for a contractive type mapping in b-metric space CT-40 DEA Technique and Its Applications in Efficiency Analysis CT-41 Solitary wave solutions of the foam drainage equation by the Laplace decomposition method CT-42 Fuzzy Goal Programming Problem with hyperbolic membership function Study of the ground states of GaCl Suchita Deshmukh molecule. CT-45 Hyers-Ulam Stability of nth Order System of Vijay b. Patare,	3.1	CT 34		
CT-35 Remedial measures for handling variance heterogeneity by use of data transformation Dr. Vidya . V. Deshpande	34	C1-34		
heterogeneity by use of data transformation CT-36 Dissociation energy of ground state of cesium iodide molecule using correlation coefficients method CT-37 Analysis of Solutions of Nonlinear Fractional Integrodifferential Equation with NonLocal Conditions CT-38 Anisotropic Behavior of Perfect Fluid in Fractal Cosmology CT-39 Existence and uniqueness of fixed-point for a contractive type mapping in b-metric space CT-40 DEA Technique and Its Applications in Efficiency Analysis CT-41 Solitary wave solutions of the foam drainage equation by the Laplace decomposition method CT-42 Fuzzy Goal Programming Problem with hyperbolic membership function Study of the ground states of GaCl molecule. CT-44 GRAPH THEORY AND ITS Pradnya A. Survase APPLICATIONS Hygers-Ulam Stability of nth Order System of Vijay b. Patare,	35	CT-35		
CT-36	33	C1-33		Di. vidya . v .Deshpande
cesium iodide molecule using correlation coefficients method 37 CT-37 Analysis of Solutions of Nonlinear Fractional Integrodifferential Equation with NonLocal Conditions 38 CT-38 Anisotropic Behavior of Perfect Fluid in Fractal Cosmology 39 CT-39 Existence and uniqueness of fixed-point for a contractive type mapping in b-metric space 40 CT-40 DEA Technique and Its Applications in Efficiency Analysis 41 CT-41 Solitary wave solutions of the foam drainage equation by the Laplace decomposition method 42 CT-42 Fuzzy Goal Programming Problem with hyperbolic membership function 43 CT-43 Study of the ground states of GaCl molecule. 44 CT-44 GRAPH THEORY AND ITS APPLICATIONS 45 CT-45 Hyers-Ulam Stability of nth Order System of Vijay b. Patare,	36	CT-36		C T Londhe
coefficients method 37 CT-37 Analysis of Solutions of Nonlinear Fractional Integrodifferential Equation with NonLocal Conditions 38 CT-38 Anisotropic Behavior of Perfect Fluid in Fractal Cosmology 39 CT-39 Existence and uniqueness of fixed-point for a contractive type mapping in b-metric space 40 CT-40 DEA Technique and Its Applications in Efficiency Analysis 41 CT-41 Solitary wave solutions of the foam drainage equation by the Laplace decomposition method 42 CT-42 Fuzzy Goal Programming Problem with hyperbolic membership function 43 CT-43 Study of the ground states of GaCl molecule. 44 CT-44 GRAPH THEORY AND ITS APPLICATIONS 45 CT-45 Hyers-Ulam Stability of nth Order System of Vijay b. Patare,	50	0130		
CT-37 Analysis of Solutions of Nonlinear Fractional Integrodifferential Equation with NonLocal Conditions Section 20			(A)	
Integrodifferential Equation with NonLocal Conditions 38 CT-38 Anisotropic Behavior of Perfect Fluid in Fractal Cosmology 39 CT-39 Existence and uniqueness of fixed-point for a contractive type mapping in b-metric space 40 CT-40 DEA Technique and Its Applications in Efficiency Analysis 41 CT-41 Solitary wave solutions of the foam drainage equation by the Laplace decomposition method 42 CT-42 Fuzzy Goal Programming Problem with hyperbolic membership function 43 CT-43 Study of the ground states of GaCl molecule. 44 CT-44 GRAPH THEORY AND ITS APPLICATIONS 45 CT-45 Hyers-Ulam Stability of nth Order System of Vijay b. Patare,	37	CT-37	The state of the s	V. C. Borkar
Conditions Anisotropic Behavior of Perfect Fluid in Fractal Cosmology D. D. Pawar Varsha D. Borgaonkar, K. L. Bondar, S. M. Jogdand Limran Ali Efficiency Analysis CT-41 Solitary wave solutions of the foam drainage equation by the Laplace decomposition method CT-42 Fuzzy Goal Programming Problem with hyperbolic membership function CT-43 Study of the ground states of GaCl molecule. CT-44 GRAPH THEORY AND ITS APPLICATIONS CT-45 Hyers-Ulam Stability of nth Order System of Vijay b. Patare,				
CT-38				
Fractal Cosmology D. D. Pawar CT-39 Existence and uniqueness of fixed-point for a contractive type mapping in b-metric space CT-40 DEA Technique and Its Applications in Efficiency Analysis CT-41 Solitary wave solutions of the foam drainage equation by the Laplace decomposition method CT-42 Fuzzy Goal Programming Problem with hyperbolic membership function CT-43 Study of the ground states of GaCl molecule. CT-44 GRAPH THEORY AND ITS APPLICATIONS CT-45 Hyers-Ulam Stability of nth Order System of Vijay b. Patare,	38	CT-38		D. K. Raut
CT-39 Existence and uniqueness of fixed-point for a contractive type mapping in b-metric space K. L. Bondar, S. M. Jogdand				D. D. Pawar
contractive type mapping in b-metric space K. L. Bondar, S. M. Jogdand DEA Technique and Its Applications in Efficiency Analysis CT-41 Solitary wave solutions of the foam drainage equation by the Laplace decomposition method CT-42 Fuzzy Goal Programming Problem with hyperbolic membership function CT-43 Study of the ground states of GaCl Suchita Deshmukh molecule. CT-44 GRAPH THEORY AND ITS Pradnya A. Survase APPLICATIONS CT-45 Hyers-Ulam Stability of nth Order System of Vijay b. Patare,	39	CT-39		Varsha D. Borgaonkar,
S. M. Jogdand 40 CT-40 DEA Technique and Its Applications in Efficiency Analysis 41 CT-41 Solitary wave solutions of the foam drainage equation by the Laplace decomposition method 42 CT-42 Fuzzy Goal Programming Problem with hyperbolic membership function 43 CT-43 Study of the ground states of GaCl molecule. 44 CT-44 GRAPH THEORY AND ITS APPLICATIONS 45 CT-45 Hyers-Ulam Stability of nth Order System of Vijay b. Patare,	207700.000		contractive type mapping in b-metric space	
40 CT-40 DEA Technique and Its Applications in Efficiency Analysis 41 CT-41 Solitary wave solutions of the foam drainage equation by the Laplace decomposition method 42 CT-42 Fuzzy Goal Programming Problem with hyperbolic membership function 43 CT-43 Study of the ground states of GaCl molecule. 44 CT-44 GRAPH THEORY AND ITS Pradnya A. Survase APPLICATIONS 45 CT-45 Hyers-Ulam Stability of nth Order System of Vijay b. Patare,				S. M. Jogdand
41 CT-41 Solitary wave solutions of the foam drainage equation by the Laplace decomposition method 42 CT-42 Fuzzy Goal Programming Problem with hyperbolic membership function 43 CT-43 Study of the ground states of GaCl Suchita Deshmukh molecule. 44 CT-44 GRAPH THEORY AND ITS Pradnya A. Survase APPLICATIONS 45 CT-45 Hyers-Ulam Stability of nth Order System of Vijay b. Patare,	40	CT-40	DEA Technique and Its Applications in	
equation by the Laplace decomposition method 42 CT-42 Fuzzy Goal Programming Problem with hyperbolic membership function 43 CT-43 Study of the ground states of GaCl Suchita Deshmukh molecule. 44 CT-44 GRAPH THEORY AND ITS Pradnya A. Survase APPLICATIONS 45 CT-45 Hyers-Ulam Stability of nth Order System of Vijay b. Patare,				
method 42 CT-42 Fuzzy Goal Programming Problem with hyperbolic membership function 43 CT-43 Study of the ground states of GaCl suchita Deshmukh molecule. 44 CT-44 GRAPH THEORY AND ITS APPLICATIONS 45 CT-45 Hyers-Ulam Stability of nth Order System of Vijay b. Patare,	41	CT-41		S. S. Handibag,
42 CT-42 Fuzzy Goal Programming Problem with hyperbolic membership function 43 CT-43 Study of the ground states of GaCl molecule. 44 CT-44 GRAPH THEORY AND ITS Pradnya A. Survase APPLICATIONS 45 CT-45 Hyers-Ulam Stability of nth Order System of Vijay b. Patare,			equation by the Laplace decomposition	R. M. Wayal
hyperbolic membership function 43 CT-43 Study of the ground states of GaCl Suchita Deshmukh molecule. 44 CT-44 GRAPH THEORY AND ITS Pradnya A. Survase APPLICATIONS 45 CT-45 Hyers-Ulam Stability of nth Order System of Vijay b. Patare,			method	
43 CT-43 Study of the ground states of GaCl Suchita Deshmukh molecule. 44 CT-44 GRAPH THEORY AND ITS Pradnya A. Survase APPLICATIONS 45 CT-45 Hyers-Ulam Stability of nth Order System of Vijay b. Patare,	42	CT-42		Bodkhe S. G
molecule. 44 CT-44 GRAPH THEORY AND ITS APPLICATIONS 45 CT-45 Hyers-Ulam Stability of nth Order System of Vijay b. Patare,				
44 CT-44 GRAPH THEORY AND ITS APPLICATIONS 45 CT-45 Hyers-Ulam Stability of nth Order System of Vijay b. Patare,	43	CT-43		Suchita Deshmukh
APPLICATIONS 45 CT-45 Hyers-Ulam Stability of nth Order System of Vijay b. Patare,			[1942 P. 2017 P. 2017 P. 1942 P. 1943 P. 1943 P. 1943 P. 1943 P. 1944	
45 CT-45 Hyers-Ulam Stability of nth Order System of Vijay b. Patare,	44	CT-44		Pradnya A. Survase
	45	CT-45		
Differential Equation with Rupesh T. More	es.		Differential Equation with	Rupesh T. More



		nonlocal conditions In Banach Space	
46	CT-46	Dynamics of Nipah Virus Infection: A	Krishnendu Barman
		Mathematical Model Based Study	
47	CT-47	Existence Result for Perturbed Random	Kulkarni P.V.,
909600	50000000 1000000	Differential Equation	D. S. Palimkar
48	CT-48	Analysis of Fractional Susceptible-Exposed-	Jagdish Sonawane,
		Infectious(SEI) Model of COVID-19	Bhausaheb Sontakke,
		Pandemic for India	Kalyanrao Takale
49	CT-49	Role of mathematics in Physics	Kunale R. A.,
			Todkar G. B.
50	CT-50	Maximal solution of quadratic fractional	Sandeep D. Patil,
		integral equation with q function	Bhausaheb R. Sontakke
51	CT-51	Initial value problems in discrete fractional	R. A. Khakre
		difference equation	
52	CT-52	An Approach for Solving Fuzzy Job	Dr. Vikas S. Jadhav
		Sequencing Problem with Pentagonal Fuzzy	
		Numbers Using Pascal's Triangular Graded	
		Mean Techniques	
53	CT-53	Comparison and Existence Results for	B. D. Dawkar
33	C1-33	Caputo Fractional Differential Equations	B. D. Dawkar
		with Initial Time Difference	
54	CT-54	Solution of Fractional Diffusion Equation by	G.W.Shrimangale
54	C1 54	Using Finite Difference Method in Soil	G. W. Sin miningate
		Medium	
55	CT-55	Existence and Uniqueness of Solution of	V. D. Mathpati,
200000000		Fractional order Differential Equation of	S. S. Zampalwad,
		Finite Delay in Cone Metric Space	Y. H. Shirole
56	CT-56	Application of Radon Transform to solve	N. S. Pimple
	1	BVP using MATLAB	1
57	CT-57	Mathematics Online Teaching- Learning	Syeda Farra Fatima Nahri
	0137	Techniques and Challenges During Pandemic	Sycal Tarra Tarria Tarria
58	CT-58	Mixed convection Poiseuille flow of	Prashant S Sutkar
50	C1 50	nanofluid in vertical channel	Tushan 5 Sakar
50	OT 50		C. D. D4:1
59	CT-59	Random Differential Inclusions with	S. B. Patil, D.S. Palimkar
		Boundary condition	
60	CT-60	Existence of Solution for Random	B. K. Pedge,
		Differential Inclusions in Banach Space	D.S. Palimkar
61	CT-61	Role of Transportation in Human life and	Nasheem Khan
	OT 12	Society	V. 1. G. M.
62	CT-62	SECOND ORDER DIFFERENTIAL	Vadnere S. M.,
S 30/// 55	0.00000 miles	OPERATORS ON WEIGHTED GRAPHS	Wakade M. D.
63	CT-63	Global Attractvity in First Order Functional	P.R. Shinde,
		Differential Equation	D.S.Palimkar
64	CT-64	New Tripled and Common Tripled Fixed	S. P. Birajdar,
		Point Theorems with Generalized c*-distance	S. S. Zampalwad,
		in b*-Cone Metric Spaces	



65	CT-65	The Existrnce of Soluction for a fractional order nonlinear quadratic differential equation with intial value condition	Dr. B.D. Karande, Shri. S.P. Shinde
66	CT-66	First Order Random Differential Equations	P.G. Swami,
	C1 00	With Nonlinear Boundary Conditions	D.S. Palimkar
67	CT-67	Restricted Three Body Problem when Both	Ravi Kumar Sagar,
		the Primaries are Uniform Circular Disc	Turing Sugar,
68	CT-68	Analysis of Various Fractional Differential	A. K. Mule, S. S. Bellale,
		Operators in Diffusion Modelling	S. P. Birajdar
69	CT-69	Hybrid Differential Transform-Finite	R.G. Metkar
100000		Difference Method to Nonlinear Transient	
		Heat Conduction Problem	
70	CT-70	Some significant properties of the	R. A. Muneshwar
V-1077-13		complement of Ntersection graph derived	K. L. Bondar
		from topological space	
71	CT-71	The Study Of Infinitesimal And Non-	Kalme Akshata Shrinivas
		Standard Analysis	
72	CT-72	Distributional Two Dimensional Fourier-	A. N. Rangari and
		Laplace Transform and its Representation	V. D. Sharma
73	CT-73	Some Results on Summation and Scalar	K. L. Bonder
		Fractional Difference Inequalities	V. S. Thosare
74	CT-74	Mathematical Model for COVID-19 with	D. D. Pawar,
		Fractional Order Modified Euler Method	S. G. Hiwale
75	CT-75	Solution of fractional kawahara equation	Shankar R.Raut,
		based on Caputo-fabrizio derivative operator	Bhausaheb R. Sontakke
76	CT-76	Solutions of linear fractional partial	Anil D.Chindhe
		differential equations using double sumudu	
		transform	
77	CT-77	Some Refinements of Certain Linear Discrete	
		Inequalities Applicable in Difference	Prashant Waghmare
		Equations	17000
78	CT-78	"Mixed convection flows of fluid with	Suvarna D.Kamble,
		temperature dependent in a vertical channel	Dr. Sharadkumar V. Jagtap
		containing incompressible fluid''	
79	CT-79	Transportation Problems: A Review	Bhavana S. Samudra,
		Approach	Rutuja A. Joshi
80	CT-80	Global existence and boundedness of	Dr. G. B. Lamb.
		summation difference equations of second	
		order	
81	CT-81	Review of Literature on Transshipment	Rutuja A. Joshi,
		Problems	Vinayak A. Jadhav,
			Bhavana S. Samudra
82	CT-82	Locally attractivity nonlinear quadratic	B.D.Karande, Pravin
	(2012)	hybrid functional integral equation	M.More
83	CT-83	A Secure Framework for Wireless Sensor	Arabind Kumar , Sanjay
		Network using Elliptic Curve Cryptography	Yadav, Vinod Kumar,
			Aubumbar Kumar Mule



84	CT-84	Different transform of generalized mittag leffler function	Sayyed jalil
85	CT-85	Applications of Differential Equations in the study of Soil Moisture Diffusion Equations.	Chakradhar Shringare, Dr. Jogdand S.M.
86	CT-86	Solitary wave solutions of the foam drainage equation by the Laplace decomposition method	S. S. Handibag, R. M. Wayal
87	CT-87	A systems numerical methods of first order ordinary differential equations	Ramesh B. Ghadge
88	CT-88	Theory of Nonlinear Boundary Value Problems for Coupled System of Caputo Fractional Differential Equations	D.B.Dhaigude, V.S.Gore and P.D.Kundgar
89	CT-89	Fibonacci Sequence and Lucas Numbers – New Identities	Priti Raut



List of Offline Oral Presentation Participants National Conference on Mathematical Technique and Applications

		Name	College Name	State
Presenter	Mr	Gangadhar Kishanrao Patil	ACS College Shankarnagar Tq Biloli Dist Nanded Maharashtra	Maharashtra
			Siddharth Art's Commerce & Science	
		Santosh Chandracant	College Jafrabad, Dist. Jalna,	
Presenter	Mr	Rudrawar	Maharashtra 431206	Maharashtra
Presenter	Dr.	Dr. Rohini Bhujangrao Shinde	Dayanand Science collage Latur	Maharashtra
Presenter	Mr	Mr.Shankar Rangnath Raut	Mrs.K.S.K.College Beed	Maharashtra
Presenter	Mr	Dr.Sanjay Vishwanath Badgire	Azad Mahavidyalaya , Ausa	Maharashtra
Presenter	Mr	Arun Digambar Nagargoje	Science College Nanded Maharashtra India	Maharashtra
Presenter	Dr.	Dr Borkar Vandeo Chimanaji	Yeshwant Mahavidyalaya Nanded	Maharashtra
Presenter	Dr.	Sayyed Jalil Sayyed Yousuf	Hutatma Jaywantrao Patil Mahavidhyalay, Himayatnagar	Maharashtra
			Shrikrishna Mahavidhyalya,Gunjoti Dist.	
Presenter	Mr	Pandurang Dattu Kundgar	Osmanabad	Maharashtra
Presenter	Mrs	Nikam swati Subhash	Walchand Institute of technology	Maharashtra
Presenter	Mr	Pravin Mukundrao More	BSS Asc college Makni	Maharashtra
Presenter	Mrs	Suvarna Devidas kamble	Shivaji Mahavidyalaya Udgir Dist.Latur,Maharashtra	Maharashtra
		Dr. Alka Shivanand		
Presenter	Dr.	Kausadikar	S. G. B. College, Purna	Maharashtra
_		Londhe Chandrakant	Mahatma Gandhi Mahavidyalaya	
Presenter	Dr.	Trimbakrao	Ahmedpur Dist-Latur	Maharashtra
Presenter	Mr	ANIL BHAGA THENGE	Shivaji Mahavidyalaya, Renapur	Maharashtra
Presenter	Mr	Raut Dnyaneshwar Kundlik	Shivaji Mahavidyalaya,Renapur	Maharashtra
Presenter	Mr	Prashant Pandurang Waghmare	Maharashtra Udayagiri Mahavidyalaya,Udgir	Maharashtra
Presenter	Dr.	UNDGAONKAR HEMANT KISHANRAO	Bahirji Smarak Mahavidyalaya Basmathnagar	Maharashtra
Presenter	Dr.	Dr. Vinod B. Kulkarni (Bhalerao)	Swa. Sawarkar Mahavidyalaya Beed Dist- Beed Pin 431122	Maharashtra
Presenter	Mr	Shivprasad Prabhu Birajdar	N. E. S. Science College, Nanded	Maharashtra
Presenter	Mr	CHANDRAKANT KONDIBARAO DHULGANDE	GOVERNMENT POLYTECHNIC BEED	Maharashtra
. reserred	1711	Shringare Chakradhar	School of mathematical sciences.	Manarasina
Presenter	Mr	Bhaskarrao	S.R.T.M.U. Nanded	Maharashtra
Presenter	Mr	Atish Sitaram Tangawade	School of Mathematical Sciences, S.R.T.M. University, Nanded	Maharashtra
Presenter	Dr.	Rahul Vitthalrao Mapari	Government Vidarbha Institute of Science and Humanities, Amravati	Maharashtra



Presenter	Mr	Sham Baliram Garud	Nutan Mahavidyalaya Selu	Maharashtra
Presenter	Mr	Sandeep Kage	Gondwana University, Gadchiroli	Maharashtra
		DYNANOBA MAROTI	DAYANAND SCIENCE JUNIOUR	
Presenter	Dr.	SURYAWANSHI	COLLEGE, LATUR	Maharashtra
		TUKARAM VAIJANATH	School of Mathematical Sciences,	
Presenter	Mr	NAVGHARE	S.R.T.M University Nanded.	Maharashtra
		DR SUDHAKAR RAOSAHEB	NARAYANRAO WAGHMARE	
Presenter	Mr	GADHE	MAHAVIDYALAYA AK BALAPUR	Maharashtra
Presenter	Mr	DR LAMB GOVARDHAN B	BALIRAM PATIL MAHAVIDYALAYA	Maharashtra
Presenter	Dr.	Sujit Suresh Handibag	Mahatma Basweshwar College, Latur	Maharashtra
		Santosh Vishwnathrao	<u> </u>	
Presenter	Mr	Nakade	Sharda Mahavidyalaya	Maharashtra
		Varsha Dattatraya	, ,	
Presenter	Mrs	Borgaonkar	N. E. S. Science College, Nanded	Maharashtra
Presenter	Mr	Mathpati Vijaykumar Dattatry	Science college Nanded	Maharashtra
Presenter	Mr	Teppawar Rajesh Sayanna	N.E.S. Science College, Nanded	Maharashtra
			School of Mathematical Sciences, SRTM	
Presenter	Mr	Sandip Gangadharrao Hiwale	University, Nanded	Maharashtra
Presenter	Mr	Prashant Suryakant Sutkar	NES Science College, Nanded	Maharashtra
		Dr. Janardhan Karanrao		
Presenter	Dr.	Mane	Sanjeevanee Mahavidyalaya Chapoli	Maharashtra
			Rajarshi Shahu Mahavidyalaya	
Presenter	Dr.	Nishank Sudhakar Pimple	(Autonomous),Latur	Maharashtra
		Mr. Wakade Malikarjun	Shivneri Mahavidyalaya Shirur Anantpal	
Presenter	Mr	Dattathray	Dist Latur	Maharashtra
Presenter	Dr.	Dr.Vikas Shivaji Jadhav	Sanjeevanee Mahavidyalaya Chapoli	Maharashtra
		VIJAY SURESHRAO		
Presenter	Mr	THOSARE	N.E.S.SCIENCE COLLEGE, NANDED	Maharashtra
Attendee	Mr	Birajdar Vishal Gunderao	R.S.M.L	Maharashtra
Attendee	Mrs	Bhosale Jyoti Hanmantrao	Shri kumarswami college Ausa	Maharashtra
Attendee	Mr	Prasanna prakashrao Bhujbal	Dayanans	
		Waghmare Rushikesh	Rajarshi Shahu Mahavidyalaya, Latur	
Attendee	Mr	Narayan	(Autonomous)	Maharashtra
		BIRADAR MAHESH		
Attendee	Mr	CHANDRAKANT	Dayanand Science College, Latur	Maharashtra
Attendee	Mr	SHYAM TULSHIRAM JARE	Dayanand science College Latur	Maharashtra
		Pathan Aamer Suhail	_	
Attendee	Mr	Mohammad Mustafa	N.E.S. SCIENCE COLLEGE NANDED	Maharashtra
			Shivaji Mahavidyalaya Udgir	
Attendee	Dr.	Sharadkumar V Jagtap	Dist.Latur,Maharashtra	Maharashtra
Attendee	Ms	Kalme Akshata Shrinivas	N. E. S. Science College Nanded	Maharashtra
		KORE SURESH	Sambhajirao Kendre College, Jalkot Dist-	
Attendee	Mr	UMAKANTRAO	Latur. (MS)	Maharashtra
		Omprakash kanoba	Late Babasahebeb deshmukh Gorthekar	
Attendee	Dr.	Berdewad	college Umri dist.Nanded	Maharashtra



	Name	College Name	State
Mr	Parshuram A Ahire	M.S.G.College Malegaon Dist-Nashik	Maharashtra
Mr	Arabind Kumar	Northcap University	Hayana
Dr.	Gajanan Wamabrao Shrimangale	Mrs. K. S. K. Alias Kaku Arts, Science and Commerce College, Beed.	Maharashtra
Dr.	DR.VARSHA DAULATRAO CHAPKE	NA	Maharashtra
Mr	Nasheem Khan	Babu Shivnath Agarwal P. G. College, Mathura	Uttar Pradesh
Mr	Patil Sandeep Dinkar	Badrinarayan Barwale Mahavidyalaya,Jalna	Maharashtra
Mrs	BHARATHI S N	GFGC KADUGODI BANGALORE	KARNATAK A
Dr.	Dr. Ravi Kumar Sagar	PGDAV College, New Delhi	New Delhi
Dr.	Dr. Siddharth Sudhakarrao Howal	Dr. S.S.M.Pratishthan's College of Education, Ahmedpur	Maharashtra
Mrs	Vidya Nilesh Bhadgaonkar	Dr. Babasaheb Ambedkar Marathwada University	Maharashtra
Dr.	Anil Dhondiram Chindhe	Balbhim College,Beed	Maharashtra
Dr.	Dr.Archana Venketesh Bhosle	Nagnath Art's,Commerce & Science College,Aundha Nagnath	Maharashtra
Mr	Jagdish Madhukar sonawane	GES R. H. Sapat College of Engineering, Management Studies & Research Centre, Nashik	Maharashtra
Mrs	PREETI	K.L.P. COLLEGE REWARI, HARYANA	HARYANA
Dr.	KHYATI	GD GOENKA UNIVERSITY, GURGAON-122103	HARYANA
Dr.	Dr. Ashwina Nilkanth Rangari	Adarsha Science J. B. Arts and Birla Commerce Mahavidyalaya, Dhamangaon Rly.	Maharashtra
Mr	Arvind Shankarrao Salve	Dr. S D Devsey Arts College and Commerce and Science College Wada Dist Palghar	Maharashtra
Mr	Govind Mahato	Indian Institute of Technology (Indian School of Mines), Dhanbad	Jharkhand
Mr	Mr.GHADGE RAMESH BHASKARRAO	Kalikadevi Art's Commerce & Science College Shirur- kasar TQ.shirur -kasar Dist Beed.	Maharashtra
Mrs	PRITI PRAMOD RAUT	SHANKAR NARAYAN COLLEGE OF ARTS AND COMMERCE BHAYANDAR EAST THANE	Maharashtra
Mr	RAJRATANA MAROTI KAMBLE	Shri Vitthal Rukhmini Arts,Commerce and Science college,Sawana,tq.Mahagoan,dist. Yavatmal 445205(M.S)	Maharashtra
Mr	SURAJ TUKARAM RAUT	M. L. Dahanukar college of commerce vile parle	Maharashtra
Mr	Thombre Ashok Allauddhin	Dpcoe pune	Maharashtra
Mr	MOHMED ZAFAR SABER	Kohinoor College Khultabad	Maharashtra
Dr.	Dr. IMRAN ALI	Government Post Graduate College Gopeshwar Chamoli (Uttarakhand)	Uttarakhand
Mr	MOMIN FASIYODDIN INAYAT	Milliya Arts,Science and Management Science College,Beed	Maharashtra
Mr	Samiulla Itoo	Jamia Millia Islamia	Delhi



Dr.	Dr. Vidya venkatrao Deshpande	Late. Laxmibai Deshmukh Mahila Mahavidyalaya,Parli.v	Maharashtra
Dr.	Dr. Gajraj Singh	Indira Gandhi National Open University, New Delhi	Delhi
Mrs	Wayal Rupali Madhukar	Hutatma Rajguru Mahavidyalaya, Rajgurunagar	Maharashtra
Mr	Lalit Kumar Som	Jamia Millia Islamia University New Delhi	Delhi
Mr	Krishnendu Barman	Prabhat Kumar College, Contai	West Bengal
Ms	Rutuja Anil Joshi	M.E.S Abasaheb Garware College, Pune - 04	Maharashtra
Ms	Bhavana Satish Samudra	S. P. College, Pune - 30	Maharashtra
Mr	Ram Baksh	Ram Baksh	New Delhi- 110025
Ms	SIDDIQUI AFREEN FATEMA M. KASIM	Dayanand Science College, Latur	Maharashtra
Dr.	P Ram Mohan Reddy	Govt.Degree College,Dharpally	Telangana
Dr.	Survase Pradnya Annarao	Mahilaratna Pushpatai Hiray Arts, Science and Commerce Mahila Mahavidyalaya, Malegaon	Maharashtra
Mr	Digambar Bhausaheb Uphade	KRT Arts BH Commerce and AM Science(KTHM) College Nashik	Maharashtra
Mrc	Meenakshi Laxmanrao Dhumal	Deogiri College, Aurangahad	Maharashtra
Mrs		Deogiri College, Aurangabad Milliya Arts Science and Management Science College	Manarasinia
Mrs	Syeda Farra Fatima Nahri	Beed	Maharashtra
Dr.	Balasaheb Dhondiram Dawkar	Vivekananda Arts, Sardar Dalipsinh Commerce and Science College, Aurangabad	Maharashtra
Mr	Vijay Bhagwat Patare	Nutan Mahavidyalaya Sailu	Maharashtra
Mr	Khakre Rajendra Ashruba	Vivekanand Arts, Sardar Dalipsingh commerce and Science College, Aurangabad	Maharashtra
Dr.	Dr. Suchita Venkatrao Deshmukh	Indraraj Arts, Commerce and Science College Sillod Dist Aurangabad	Maharashtra
Ms	Ekta Jain	University of Delhi	Delhi
Dr.	Dr Sachin Agrawal	College of Engineering and Technology, Akola	Maharashtra
Mr	Mr.Sachin Laxman Varpe	Pimpri Chinchwad college of engineering and research, Ravet	Maharashtra
Mr	Imran Khan Mansuri	Govt Higher secondary school Jawar	MP
Dr.	Gajanan Ramrao Mahajan	Shri Datta Arts, Commerce and Science College Hadgaon	Maharashtra
Dr.	Mansi Ashok Bansod	N.E.S Science College, Nanded	Maharashtra
	Zargar Nazreen sultana	_	
Mrs	Abdul rasheed	Zargar Nazreen sultana Abdul rasheed PIMPRICHINCHWAD COLLEGE OF ENGINEERING &	Maharashtra
Mr	MAHESH MADHUKAR SARADA	PIMPRICHINCHWAD COLLEGE OF ENGINEERING & RESEARCH	Maharashtra
Mr	Perike Venkat Ratna Shrinivas Rao Bhiksham	Rocky pond's produce	Queensland
Mrs	Daimi Syeda Mariya Begum	Swami Ramanand Teerth Marathwada University, Nanded	Maharashtra
Dr.	ANANT ASHOK NAVLEKAR	Pratishthan Mahavidyalaya, Paithan Dist.Aurangabad	Maharashtra
Mrs	Aishwarya Vaijanath Navarkhele	RCT's Dinesh Bembade College of Pharmacy	Maharashtra







Dr. Babasaheb Ambedkar Technological University (Established by Government of Maharashtra and Governed by Dr. Babasaheh Ambedkar Technological University Act No. XXIX of 2014)

Vidyavihar, Lonere — Raigad 402 103 (Maharashtra)

02140-275142

DBATU/REG/Message/55つ 18th December, 2021

Message

I am happy to know that Mahatma Gandhi Mahavidyalaya, Ahmedpur, Dist. Latur is going to organise National Conference on Mathematical Techniques and Applications (NCMTA-2021), sponsored by SRTMU, Nanded on 21st December, 2021 under the guidance of eminent personalities.

I am confident that the deliberations during the conference would be beneficial for the teachers, researchers and students in various branches of science and engineering across the country and the event would be successful in achieving its objectives.

I extend my best wishes for the entire endeavour. Also I would like to congratulate the organizers, all team members and the Institute well in advance for their excellent initiative and creating a platform for the researchers.

Dr. Babasaheb Ambedkar Technological University. LONERE 402 103.
Tal Mangaon, Dist. Raigad, (Maharashtra)

To, Smt. Dr. Capt. A.M. Shinde Principal and Convener

Mahatma Gandhi Mahavidyalaya, Ahmedpur 413 515

Dist. Latur, Maharashtra



ATR of NCMTA 2021



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विचार विकास मंडळ,अहमदपूर

अहमदपूर जि.लातूर

ॲड.किशनराव बेंडकुळे अध्यक्ष ॲंड.पी.डी.कदम सरचिटणीस

E-Mail principal_mgm@rediffmail.com

फोन कार्यालय : ०२३८१-२६२०६० फॅक्स : ०२३८१-२६३२५७

Message

Date: 18-12-2021

I take this opportunity to congratulate Department of Mathematics, Mahatma Gandhi Mahavidyalaya, Ahmedpur for organizing The National Conference On Mathematical Techniques And Applications (NCMTA-2021) On 21 Dec 2021

This National Conference will provide a useful common platform for all the participants gathered from different parts of India to interact about the recent developments in the field of Mathematics

I convey my best wishes for the success of the conference.

Adv. Kishanraoji Bendkule





SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY

NANDED-431606 MAHARASHTRA STATE, INDIA.

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Message

It gives me immense pleasure to know that Department of Mathematics, Mahatma Gandhi college, Ahmedpur is organizing 'National Conference on Mathematical Techniques and Applications (NCMTA2021) on 21 Dec. 2021

The themes selected for the Conference are contemporary and have wide scope. The conference will definitely provide an opportunity to the academicians and professions to share their knowledge on various mathematical techniques and applications. I am confident that the participants will discuss and deliberate the current trends in the field and inspire young researchers and students.

I am pleased that the souvenir to be released with acknowledge. This occasion and the articles published in the souvenir will enlighten the readers.

I wish the endeavor a great success.

Dr. D. D. Pawar Professor and Director



MAHATMA GANDHI MAHAVIDYALAYA AHMEDPUR DIST, LATUR

(Arts, Commerce & Science)

ई-मेल : principal_mgm@rediffmall.com



महात्मा गांधी महाविद्यालय अहमदपूर जि. लातूर

(कला, वाणिज्य व विज्ञान) फोन / फॅक्स : 02381-262060 -

Capt. Dr. Smt. Anita M. Shinde Principal

Date: 18-12-2021

From the Principal desk

Message

The National Conference on Mathematical Techniques and Applications is one of the key events being organized by the Mahatma Gandhi Mahavidyalaya during the current Academic year (2021-22). This conference aims at the discussion of advancements in the field of Mathematical sciences. A number of renowned scholars from across the nation are gracing this occasion with their actual or virtual presence. Numerous participants have contributed their research papers. This event provides opportunity for significant discussions on diversity of topics. I am sure that our academic endeavor would result in the addition to the existing body of knowledge for the mathematical science.

Capt. Dr. Smt. Anita M. Shinde Principal and Convener



MAHATMA GANDHI MAHAVIDYALAYA AHMEDPUR DIST. LATUR (Arts, Commerce & Science)



नहारना साथा महाविद्याल अहमदपूर जि. लात्र

(कला, वाणिज्य व क्रि फोन / फॅक्स : 02381-26206

ई-मेल : principal mgm@rediffmail.com

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Date: 18-12-2021

Message

On behalf of the organizing committee, I would like to cordially welcome you all to NCMTA 2021 National Conference on Mathematical Techniques and Applications.

The purpose of this conference is an earnest attempt to create the right interface for the exchange and dissemination of new ideas and techniques among the young researchers in various fields of mathematical sciences The program consists of keynote address, invited talks as well as contributed talk presentations on various technical aspects of different research areas mathematics plays major role in engineering, physical, biological, economical, medical, computer science real would applications. The success of the conference depends ultimately on the many people who have worked with us in planning and organizing this technical program. Eventually, I would like to thank our President, Secretary, Principal, Teaching and Non-Teaching staff for their guidance, support and motivation for the success of this National Conference.

Mr. Audumbar K. Mule

Head
Department of Mathematics
Organizing Secretary
NCMTA-2021



