



Dayanand Education Society's

Dayanand Science College, Latur, Maharashtra India



Department of Mathematics

ATR

**International Conference on Mathematical
Analysis and Its Applications (ICMAA2021)
(July 27 - July 29, 2020)**

By

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Event: International Conference

| Sr. No | Title | Information |
|--------|-------------------------------|--|
| 1. | Name of Department | Mathematics |
| 2. | Title of Event | International Conference on Mathematical Analysis and Its Applications (ICMAA2020) |
| 3. | Date or Duration | 27 - 29 July - 2020 |
| 4. | Venue of the Event | Auditorium, Dayanand Science College, Latur |
| 5. | Sponsor/ Collaboration | NBHM, DST-SERB, CSIR, INSA, SRTMUN, and Dayanand Education Society, Latur |
| 6. | Level of Event | International |
| 7. | Aims/Objectives of the Event | The main aim of this conference is to provide impetus, motivation and to bring together Researchers and Scientists working in the field of mathematics and its applications by providing a forum for the academics exchange of ideas and recent research works |
| 8. | Beneficiaries/ Participants | Teachers, Research Scholars, PG students |
| 9. | Number of Participants | 226 |
| 10. | Name of Chief Guest, Speakers | Prof J. K Kim, Korea Dr. B. D. Karande |
| 11. | Name of Coordinator | Dr. S. S Bellale |
| 12. | Photographs | Attached |
| 13. | Evidence Produced | • Broucher |
| 14. | Outcomes of the Event | Nearly about 17 participants from out of country |
| 15. | Any other information | Total 196 Papers were read in this confrence |

Background

Department of mathematics is one of the best department in Marathwada region in SRTMUN. This department has UG, PG, Ph. D, M. Phil courses & Research Centers in Mathematics and MATLAB COC Courses. Every year the students from this department got Gold Medal from SRTMUN.

The department of Mathematics organized 02-National Conferences,01-State Level Seminars,01-Regional Workshop & 03-Phd Course works since last 03 years. In the



departmental meeting which was held on June-2016, the faculty members & research scholars decided to organize International Conference on mathematical Analysis and its Application in the month of July-2020. For the financial support to decide to submit the proposal to NBHM, SERB, SRTMUN, CSIR, INSA & UGC. Thus above said Institutions financial support we decided to organize the International Conference on mathematical Analysis and its Application on 27th to 29th July-2020. The department of Mathematics, Dayanand Science College, Latur is proud to organize the International Conference on Mathematical Analysis and its applications.

On 27th to 29th July-2020 the International Conference on Mathematical Analysis and its Applications (ICMAA2020) was successfully held from 27th to 29th July-2020, which is organized by Department of Mathematics, Dayanand Science College, Latur for Mathematics Researchers, Teachers and PG Students. The conference was attended by a total of 226 participants. This is the second time the International Conference was held in Latur.

Aims / Objectives:

1. ICMAA-2020 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, motivation and to bring together Researchers and Scientists working in the field of mathematics and its applications by providing a forum for the academics 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 experiences the latest development in the field of Mathematics.
5. In this conference we shall make the 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. Differentials equations have a lot of applications in different scientific fields. This conference will be 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.
10. During this conference the participants will aware with the application of He's variational method, which is applied to solve nonlinear integro-differentials equations.

Taking into consideration the guidelines of the programme, the workshop 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 countries 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 proposed outline for the conference is shown in Annex 1. 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. More information about this conference and the departments program can be found at the following websites:

www.dsclatur.org

Participants

The conference brought together more than 500 representatives from various institutions in states and universities from India and others are form Korea, Romania, PNG, Pakistan, Italy, Turkey, Thailand, Sikkim, Malaysia, Iran, Egypt, Nigeria, USA, S.Arabia and Yemen. The Vice-Chancellor of the SRTMU, Nanded is Dr. Udhav V. Bhosale attended the conference as Chief Guest of the inaugural function. Vittorio Calao (University Della Calabria, Italy) and Javid Ali (Aligarh Muslim University, Aligarh, U.P.) acted as Chief Guest of the valedictory function and President, Hon. Arvindraoji Sonvane (Vice-President, Dayanand Education Society, Latur) of this conference. Join Scientists, academics, professionals, practitioners and researchers and experience one of the leading International Conferences attended by participants from all over the world.

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 Swami Ramanand Teerth Marathwad University Nanded.

Inauguration and Plenary Presentations

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



- President: Hon. Laxmiramanji Lahoti (President, Dayanand Education Society, Latur.)
- Chief Guest: Hon. Prof. Dr. Udhav V. Bhosale (Vice Chancellor, SRTMU, Nanded.)
- Guest of Honors: Prof. Dr. J.K. Kim (Kyungnam University, Changwon, Gyeongnam, Korea.)
- Keynote Speaker: Prof. Dr. V. Berinde (North University of Baia Mare, Romania)
- Special Invitees: Hon. Arvindraoji Sonvane (Vice-President, Dayanand Education Society, Latur.)
Hon. Rameshji Biyani (Secretary, Dayanand Education Society, Latur.)
Hon. Sureshji Jain (Joint-Secretary, Dayanand Education Society, Latur.)
Hon. Dr. Ishwarji Rathod (Director, Dayanand Education Society, Latur.)
Dr. B. D. Karande (Udaygiri Mahavidyalaya, Udgir)

The Keynote addresses were made by Prof. Dr. J.K. Kim (Kyungnam University, Changwon, Gyeongnam, Korea.), Prof. Dr. V. Berinde (North University of Baia Mare, Romania) and Prof. B.C. Dhage (Kasubai, Gurukul Colony, Ahmedpur, Latur, India). In the keynote address Prof. J.K. Kim Speeches on “Mann-Extragradient Algorithms for Solving the Unrelated Variational Inequalities and Fixed Point Problems”. Prof. V. Berinde gave speech on “Current Trends in Fixed point Theory: Between Application Challenges and Theoretical Dangers and Prof. B.C. Dhage gave speech on “D-Iteration Method in the Theory of Nonlinear Functional Differential Equations”.

Day-I

In this conference there was three keynote address speakers, 09 Plenary Talk, 41 Invited Talk and 252 Contributory Talks. On the first day welcoming speakers and participants, the chief guest of inaugural function of this conference is Dr. Udhav Bhosale (V.C. SRTMU, Nanded), who is highlighted in his greeting that, the themes for the conference are appropriate in the present context and it will provide a common platform to academicians and professionals working in the field mathematics to share their knowledge about various aspects of the subject.

In the opening address, highlighted discussion on applied aspect of mathematical analysis will help fresh researchers to connect rich theory of mathematical analysis to other branches of mathematics as well as specialized research in other scientific areas.

In the first keynote, Prof. V. Berinde (Chair (Director) of Department, Department of Mathematics and Computer Science, North University Center at Baia Mare Technical University of Cluj-Napoca Victoriei, Baia Mare, Romania) spoke about “Current Trends in Fixed Point Theory: Between Application Challenges and Theoretical Dangers”. The overview was chaired by Prof. J.K. Kim (Kyungnam University, Changwon, Gyeongnam, Korea).

In the next session there was two Plenary Talks, in the first plenary talk Prof. V. Kannan (University of Hyderabad India) Spoke about “A Functional Analytic View of Riemann Theorem on Re-arrangements”. And in the second plenary talks Prof. J.Vasundhara Devi (GVP College of Engineering (A) Madhurawada, Visakhapatnam, India) gave speech on “Graph Differential Equations via Matrix Differential Equations”. The session was chaired by Prof. B. C. Dhage (Kasubai, Gurukul Colony, Ahmedpur, Latur, (M.S), India).

In the next session there was for invited talks, the first talk was given by Prof. A. A. Shaikh (Aligarh Muslim University, Aligarh, U.P., India.) discussed on “Development from Euclidean Geometry to Incidence Geometry”. In the next talk Prof. S.D. Katore (Sant Gadge Baba Amravati University, Amravati, (M.S), India) gave speech on “On Theories of Gravitation”. The overview was chaired by Prof. V. Kannan (University of Hyderabad India). Prof. A. Yajnik (Sikkim Manipal Institute of Technology, Sikkim) discussed about “Natural Language Parser using Mathematical Techniques” and the last talk of this session is given by Prof. Deepak Singh. This session was chaired by Prof. A.K. Das (SQC & OR Unit, Indian Statistical Institute, 203 B. T. Road, Kolkata, India).



In the afternoon session there are four parallel session of contributory talks at different four hall that is α, β, γ , and δ halls. Each session started with invited talk. There are 23 contributory talk in each session and the four parallel session was chaired by Prof. P.K. Sahoo (Birla Institute of Technology and Science-Pilani, Hyderabad Campus, Hyderabad, India), Prof. D.D. Pawar (Director of Department of Mathematics, S.R.T.M. University, Nanded), Prof. Gopal Meena (Jabalpur Engineering College, Jabalpur, M.P.) and Prof. M.P. Singh (Institute of Engineering & Technology, Dr. B.R. Ambedkar University, Khandari, Agra, India) respectively.

In the evening there was culture programme for the participants.

Day-II

The second day began with keynote talk-II Prof. J.K. Kim (Kyungnam University, Changwon, Gyeongnam, Korea) gave speech on “Mann-Extragradient Algorithms for Solving the Unrelated Variational Inequalities and Fixed Point Problems”. This session was chaired by Prof. Mehmet KUCUKASLAN (Mersin University, Mersin, Turkey).

After that, two plenary talks are given by Prof. V. Colao (University Della Calabria, Italy) gave speech on “Iterative Sequences and Fixed Points: A Review” and Prof. A.K. Das (SQC & OR Unit, Indian Statistical Institute, 203 B. T. Road, Kolkata, India). This session was chaired by Prof. V. Berinde (North University Center at Baia Mare Technical University of Cluj-Napoca Victoriei, Baia Mare, Romania).

In the next session there was six invited talk. The first talk was given by Prof. P. Sundaram (Former Principal, N. G. M. College, Pollachi, Tamilnadu, India) gave speech on “Digital Topology”. The second talk was given by Prof. M.P. Singh (Dr. B. R. Ambedkar University, Khandari, Agra, India) gave talk on Application of MATLAB Environment for Mathematics. The overview was chaired by Prof. Vilas Kharat (N. B. Navale Sinhgad College of Engineering, Solapur, (M.S.), India). In the third talk Prof. Gopal Datt (PGDAV College, Delhi, India) discussed on “Recent Advances in the Theory of Toeplitz Operators” and Prof. Ilahme Imrali (Duzce University, Duzce, Turkey) discussed on “On The Numerical Solution of Parametrized Second-Order Boundary Value Singularly Perturbed Problem”. The session was chaired by Prof. A.A. Shaikh (Aligarh Muslim University, Aligarh U.P.).

In the afternoon session there are 4 parallel sessions. Each session started with the invited talks and in each session there was 22 contributory talks and the 4 sessions was chaired by Prof. V.C. Borkar (Yeshwant College, Nanded, M.S., India) and Javed Ali (Aligarh Muslim University, Aligarh, U.P. India), K.C. Takale (RNC Arts, JDB Commerce and NSC Science College, Nashik, M.S., India) and S.D. Katare (Sant Gadge Baba Amravati University, Amravati, M.S, India), Prof. S.S. Benchalli (Karnatak University, Dharwad, Karnataka, India), Dr. S.S. Bellale (Dayanand Science College, Latur.), Prof. P. Sundaram (N. G. M. College, Pollachi, Tamilnadu, India) and D.S. Palimkar (Vasantrao Naik College, Nanded, M.S, India) respectively.

Then the last session of Day-II was poster presentation.

Day-III

The third day began with the keynote talk of Prof. B. C. Dhage (Kasubai, Gurukul Colony, Ahmedpur, Latur, (M.S), India) gave speech on “D-Iteration Method in the theory of Nonlinear Functional Differential Equations”. The overview was chaired by Prof. M.Kucukasalan (Mersin University, Mersin, Turkey).

Then there was two plenary talks. In the first talk Prof. S. S. Benchalli (Karnataka University Dharwad, Karnataka) gave speech on “Recent Trends in Topology”. In the second talk was given by Prof. M.Kucukasalan (Mersin University, Mersin, Turkey) discussed on



“Relation Between Porosity Convergence and Tangent Space”. The overview was chaired by Prof. A.A.Shaikh (Aligarh Muslim University, Aligarh, U.P., India.).

Then in the next sessions there were two invited talks. Prof. D.D.Pawar (SRTM University, Nanded) gave a speech on “Magnetized Domain Wall in $f(R, T)$ Theory of Gravity”. Similarly, the afternoon sessions were started with 04 parallel sessions. Each session started with invited talks. There were 19 Contributory talks in each session. These sessions were chaired by M. Zaita BERINDE (North University Center at Baia Mare Technical University of Cluj-Napoca) & ILHAME.AMIRALI (Duzce University, Duzce, Turkey), K.P.Singh & Deepak Singh, P.G.Patil (Karnataka University, Dharwad, Karnataka) & B.R.Sontakke, and Pradeep Goel (M.M.(P.G.) College, Fatehabad, Haryana) & Dr. K.L.Bondar (NES Science College, Nanded.) respectively.

Group Discussion:

The last session was a group discussion. In the group discussion session we discussed about He’s variational method which is applied to solve nonlinear integro-differential equations. At the end we found that the method provides a straightforward and powerful mathematical tool for solving various nonlinear integro-differential equations. Also we discussed on other applications of differential equations, The Numerical Solution of Parametrized Second-Order Boundary Value Singularly Perturbed Problem and so on.

Valedictory function and feedback:

At the end of the conference a valedictory function was held. In this valedictory function many mathematicians gave the feedback on the overall workshop.

Chief Guest: Hon. Prof. Vittorio Calao (University Della Calabria, Italy)

Hon. Prof. Javid Ali (Aligarh Muslim University, Aligarh, U.P.)

President: Hon. Arvindraoji Sonvane (Vice-President, Dayanand Education Society, Latur.)

Special Invitees: Hon. Laxmiramanji Lahoti (President, Dayanand Education Society, Latur.)

Hon. Rameshji Biyani (Secretary, Dayanand Education Society, Latur.)

Hon. Sureshji Jain (Joint-Secretary, Dayanand Education Society, Latur.)

Chairman: Hon.Dr. J.S. Dargad (Principal, Dayanand Science College, Latur.)

Convener: Hon.Dr.S.S.Bellale (HOD, Dept.of Mathematics, Dayanand Science College, Latur)

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 foreign participants 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. Prof.J.K.Kim discussed on “Mann-Extragradient Algorithms for solving the Unrelated Variational Inequalities and Fixed Point”, during his discussion the participants got a new iteration methods for finding a common solution of a system of unrelated variational inequalities.
12. Participation of a foreign Speakers and Researchers made the collaboration between their research with the Indian participants.
13. Due to this conference the MOUS with the research center of the countries Korea, Romania, Italy, Turkey etc with the departments of our countries.
14. The foreign participants communicated with the PG students of our Institutions and they invited their countries for the future research.
15. This conference deeply knowledgeable for the researchers in the field of non-linear analysis and its application.
16. Nearly about 15 mathematical models were presented in this conference, which are valuable for research in application.
17. The recordable 294 papers were presented in this conference in different directions and its applications.
18. During this conference the participants got the new innovative ideas about Mathematical Physics which covered the topics as Fluid Mechanics, Classical Mechanics etc.
19. Differentials equations have a lot of applications in different scientific fields. This conference provided an immense application of differential equations to the participants.
20. This conference discussed recent developments in and latest research on mathematics, statistics and their applications.

Conference Schedule :

| Sr. No. | Time | Event | Venue |
|--|--------------------|--------------------------------------|-------------------|
| First Day : Date :- 27th July 2020 | | | |
| 1) | 03.00pm to 05.30pm | Registration (Foreign Participants) | Registration Desk |



| | | | | | |
|--|---------------------|---|--|---|--|
| 2) | 05.30pm to 08.00pm | Welcome Party/Dinner (For Invitees) | | Dinner Hall | |
| Second Day: Date :- 28th July 2020 | | | | | |
| 3) | 08:00am to 09:00 | Break fast | | Breakfast point | |
| 4) | 09.00am to 10.00am | Registration | | Registration Desk | |
| 5) | 10.00am to 11.30am | Inaugural function | | Auditorium | |
| 6) | 11.30am to 12.30pm | Keynote Talk- 1 (Dr. B. D. Karande) Chair - Prof. Dr. S.B. Nimse | | Auditorium | |
| 7) | 12.30pm to 12.45pm | Tea Break | | Tea Point | |
| 8) | 12:00pm to 01:30 pm | Plenary Talk - , (Prof. S.B. Nimse) Plenary Talk – (Prof. V. Kannan) Chair - Prof. J. K. Kim | | Auditorium | |
| 9) | 01.30pm to 02.30pm | Lunch Break | | Lunch Hall | |
| 10) | 02.30pm to 04:00pm | Invited Talk (Prof. J. Vasundaradevi) Invited Talk (Prof. A.A. Shaikh) Chair - Prof. V. Kannan | | α -Alpha Hall, | |
| | | Invited Talk (Prof. S. D. Katore) Invited Talk (Prof. A. Yajnik) Chair - Prof. A. K. Das | | δ -Delta Hall | |
| 11) | 04:00pm to 04:15 pm | Tea break | | Tea Point | |
| 12) | 04.15pm to 06.00pm | Contributory Talks in (04 parallel sessions) | | α , β , γ and δ Halls | |
| | | α -Alpha Hall Chair.- P. K.Sahoo | β -Beta Hall Chair.- Prof. D. D. Pawar | γ - Gama Hall Chair.- Prof. S. S. Benchalli | δ -Delta Hall Chair.- Prof.M.P.Singh |
| | | IT20 Javid Ali CT04-S.B.Chavhan CT05- S.B. Dhaigude CT06- D.K. Raut CT07-R.M. Reddy CT08-M.K. Suryawanshi CT10-G.U. Pawar CT11-A. Banerjee CT14-P.Sahoo CT18- E.A. Bakare CT21- S.S. Hambarde CT22- P.R. Shinde CT23- S.B. Patil CT26- A. Tomar CT27- S.B. Birajdar CT30- M.N. Pentaiah CT31- N.S. Kondekar CT32- S.P. Shinde CT33- P.G.Swami CT34- B.K. Pedge CT35- R.M. Dhaigude CT202- W.D. Patil CT206- K.S. Borase | IT37- K.P. Ghadle CT01- B.S.Reddy CT16- A.D.Chindhe CT17- N. Laxmikanth CT25- H.R. Bhapkar CT61- P. Singh CT74- N.K.Raut CT83- Moh. Shuaib Akhtar CT85- A. V. Bhosle CT91- N. M. Kavathekar CT92- Moh. A. Salman CT98- D. A. Munot CT99- N.S. Hungund CT100- P.G.Andhare CT114- R.B. Sahane CT121- S. R. Waykar CT128- Ali A.M.Ahmed CT145- Özen ÖZER CT152- R.D. Jagtap CT158- Mandira Kar CT179- V. K. Gupta CT183- B. A. Nagorao CT250- D.B.Chate | IT40. D. S. Palimkar CT02- E. Serag CT03- S.M. Jogdand CT13- M. Kumar CT15- M. H. Saleh CT20- N.N. Puranik CT36- R.Pandey CT41- P. Singh CT43- Ayub Khan and Shikha CT50- R. P. Gupta CT87- J. K. Mane CT117- S. R. Gadhe CT119- V.S. Jadhav CT135- P. A. Pathade CT136- K. U. Shinde CT142- Naziya Parveen CT151- Ayub Khan CT161- Iftikhar CT174- S. Kumar CT177- D.S. Kanwate CT188- S. S. Zampalwad CT189- R. S. Wali CT195- A. M. Burande CT198- A. B. Thenge CT199- D.N. Kandekar | IT41 K. L. Bondar CT19- Shams Khwaja CT42- P. Gupta CT44- P. Sahoo CT52- R. A. Kunale CT54- S. P. Shahare CT57- S. Tabassum CT58- Chaman Pal CT62- O.P. Chauhan CT68- S.P. Hatkar CT75- Kamran Ahmad CT79- V.P. Kadam CT80- V.R. Chirde CT81- B.M.Godbole CT88- R. J. Baxi CT93- V.B. Bhale CT95- P. Sonawne CT106- P. K. Agrawal CT112- A. Pujari CT118- K.R.Mule CT127- N. K. Sarkate CT129- B.Elizabeth Rani CT132- S. P. Hingmire CT137- Khan Firdous |



| 13) | 06.00 pm to 07.00 pm | Break | --- | | | | | | | | | | | | | | | | |
|--|--|--|---|----------------------|--------------------|----------------------|----------------------|--|---|---------------------------------------|--|---------------------|--------------------|-------------------|-------------------|---|--|--|---|
| 14) | 07.00 pm to 08.30 pm | Culture Programme | Auditorium | | | | | | | | | | | | | | | | |
| 15) | 08:30 pm to 09:30 pm | Dinner | Dinner Wing | | | | | | | | | | | | | | | | |
| Third Day: Date :- 29th July 2020 | | | | | | | | | | | | | | | | | | | |
| 16) | 09.00 am to 10.00am | Break Fast | Lunch Hall | | | | | | | | | | | | | | | | |
| 17) | 10.00 am to 11.00 am | Keynote Talk - II (Prof. J. K. Kim) Chair - Prof. M. Kucukaslan | Auditorium | | | | | | | | | | | | | | | | |
| 18) | 11.00 am to 12.30pm | Plenary Talk - (Prof. V. Colao) Plenary Talk – (Prof. A. K. Das) Chair - Prof. V. Berinde | Auditorium, | | | | | | | | | | | | | | | | |
| 19) | 12.30 pm to 12.45pm | Tea Brea | Tea Point | | | | | | | | | | | | | | | | |
| 20) | 12.45 pm to 02.00 pm | Invited Talk - (Prof. P. Sundaram) Invited Talk - (Prof. M. P. Singh) Chair - Prof. Vilas Kharat | Auditorium, | | | | | | | | | | | | | | | | |
| 21) | 02.00 pm to 03.00pm | Lunch Break | Lunch Hall | | | | | | | | | | | | | | | | |
| 22) | 03.00pm to 04:00pm | Invited Talk - (Prof. Gopal Datt) Invited Talk - (Prof. Ilahme Imirali) Chair - Prof. A. A. Shaikh | α -Alpha Hall, | | | | | | | | | | | | | | | | |
| | | Invited Talk III, (Prof. B. N. Bhosale) Invited Talk IV, (Prof. P. K. Sahoo) Chair - Prof. J. N. Salunke | δ -Delta Hall | | | | | | | | | | | | | | | | |
| 23) | 04:00pm to 6:30 pm | Invited and Contributory Talks (04 parallel sessions) | α , β , γ and δ Halls | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">α-Alpha Hall</th> <th style="width: 25%;">β-Beta Hall</th> <th style="width: 25%;">γ- Gama Hall</th> <th style="width: 25%;">δ-Delta Hall</th> </tr> </thead> <tbody> <tr> <td>Chair.- Prof. V. C. Borkar/ Javid Ali</td> <td>Chair.- K. C. Takale & D. D. Pawar</td> <td>Chair.- Prof. S. S. Benchalli&</td> <td>Chair.- Prof. P. Sundaram/ Palimkar D</td> </tr> <tr> <td>IT 24. R. N. Ingale</td> <td>IT 28. R. Sontakke</td> <td>IT34- P. G. Patil</td> <td>IT30 -V. P. Pawar</td> </tr> <tr> <td>CT46- M. Ahmad Bhat CT47- S.S.Patil CT48- A. S. Shaikh CT49- G.B. Dapke CT53- R. B. Yadav CT55- S.A. Mirikar CT56- S. P. Basude CT59- A. A. Hamoud CT60- Md Ahmadullah CT63- Vishal Joshi CT64- Mudasir Younis CT65- Gopal Meena CT66- Ali W. Mohamed CT69- S. N. Salunkhe CT70- Anil Gupta CT71- Yasmeen Khan CT73- Vilas S. Patil</td> <td>CT208- V.V. Latpate CT209- C.D. Bele CT210- D.S. Bodkhe CT211- J. A. Nanawre CT212- D. M. Suryawanshi CT213- D. Tripathi CT215- V. E. Nikumbh CT217- R. S. Jain CT218- S.B. Birajdar CT219- A. R. Maka CT222- C. T. Aage CT230- R. V. Kotalkar CT231- P. V. Dole CT232- S K Panchal CT233- Arihant Jain CT234- B. B Mathad CT240- R. B. Thakare CT241- K. Rajak CT246- K.R. Eknath CT248- H. P. Thorat CT172- K K Rai CT201- M. S. Wavare</td> <td>CT09- M. Zoita BERINDE CT203- O. N. Angul CT207- J. V. Patil CT220- Shabana Khan CT221- D. S. Shelar CT223- A. Shelke CT224- S. Birajdar CT225- D. S Sonawane CT227- H.S. Bhosale CT228- D. G. Palke CT235- G.S. Kawle CT236- K.K. Dixit CT238- B. M. Bhairat CT239- A J Khan CT242- K. R. Gaikwad CT243- M. R. Ugale CT244- S. R. Acharya CT245- G.P. Kamble CT247- P.E. Vibhute CT249- N.S. Darkunde CT90- R. Gubran CT94- Aliya Siddiqui</td> <td>CT28- J.V. Mashalkar CT39- G.A. Dhanorkar CT45- Izhar Uddin CT51- R. Barai CT67- P.M. Rathod CT72- P.S. Garbhe CT78- S. R. Ballal CT96- Mohd Ishtyak CT103- S. D. Gorantiwar CT104- V.P. Patil CT122- V. P. Hegade CT133- S. P. Hingmire CT144- Pardeep Goel CT147- S. D.Kambl CT168- M.W. Barsagade CT178- S.R. Holkar CT180- V. B. Patare</td> </tr> </tbody> </table> | | | | α -Alpha Hall | β -Beta Hall | γ - Gama Hall | δ -Delta Hall | Chair.- Prof. V. C. Borkar/ Javid Ali | Chair.- K. C. Takale & D. D. Pawar | Chair.- Prof. S. S. Benchalli& | Chair.- Prof. P. Sundaram/ Palimkar D | IT 24. R. N. Ingale | IT 28. R. Sontakke | IT34- P. G. Patil | IT30 -V. P. Pawar | CT46- M. Ahmad Bhat CT47- S.S.Patil CT48- A. S. Shaikh CT49- G.B. Dapke CT53- R. B. Yadav CT55- S.A. Mirikar CT56- S. P. Basude CT59- A. A. Hamoud CT60- Md Ahmadullah CT63- Vishal Joshi CT64- Mudasir Younis CT65- Gopal Meena CT66- Ali W. Mohamed CT69- S. N. Salunkhe CT70- Anil Gupta CT71- Yasmeen Khan CT73- Vilas S. Patil | CT208- V.V. Latpate CT209- C.D. Bele CT210- D.S. Bodkhe CT211- J. A. Nanawre CT212- D. M. Suryawanshi CT213- D. Tripathi CT215- V. E. Nikumbh CT217- R. S. Jain CT218- S.B. Birajdar CT219- A. R. Maka CT222- C. T. Aage CT230- R. V. Kotalkar CT231- P. V. Dole CT232- S K Panchal CT233- Arihant Jain CT234- B. B Mathad CT240- R. B. Thakare CT241- K. Rajak CT246- K.R. Eknath CT248- H. P. Thorat CT172- K K Rai CT201- M. S. Wavare | CT09- M. Zoita BERINDE CT203- O. N. Angul CT207- J. V. Patil CT220- Shabana Khan CT221- D. S. Shelar CT223- A. Shelke CT224- S. Birajdar CT225- D. S Sonawane CT227- H.S. Bhosale CT228- D. G. Palke CT235- G.S. Kawle CT236- K.K. Dixit CT238- B. M. Bhairat CT239- A J Khan CT242- K. R. Gaikwad CT243- M. R. Ugale CT244- S. R. Acharya CT245- G.P. Kamble CT247- P.E. Vibhute CT249- N.S. Darkunde CT90- R. Gubran CT94- Aliya Siddiqui | CT28- J.V. Mashalkar CT39- G.A. Dhanorkar CT45- Izhar Uddin CT51- R. Barai CT67- P.M. Rathod CT72- P.S. Garbhe CT78- S. R. Ballal CT96- Mohd Ishtyak CT103- S. D. Gorantiwar CT104- V.P. Patil CT122- V. P. Hegade CT133- S. P. Hingmire CT144- Pardeep Goel CT147- S. D.Kambl CT168- M.W. Barsagade CT178- S.R. Holkar CT180- V. B. Patare |
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| | CT76- V.Srinivas CT77- A.D. Kadam CT82- Shagufta Rahman CT86- M.Rajesh CT89- Mohammad Asim | | | CT182- S.P. Birajdar CT196- Aruna Kulkarni CT216- J A Sangvikar CT229- J.D.Thenge |
| 24) | 06.30pm to 07.00pm | Poster Presentation | | Conference Hall |
| 25) | 07.00pm to 08.30pm | Break / Local Tour | | Sidheshwar Yatra |
| 26) | 08:30pm to 09:30pm | Dinner | | Dinner wing |

Acknowledgements

It has been our pleasure to host the participants of the conference at Dayanand Science College Latur me. 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 world and India. I am sure that the participants must have benefited by attending this conference.

I would like to record my sincere thank to our chief guest Hon. Dr. Udhav V. Bhosale (Vice-Chancellor, SRTMU, Nanded) and Guest of honor Prof. Kim for kindly accepting our invitation and gracing the inaugural function . I also thankful to Prof Colao for accepting invitation of valedictory function.

I am thankful to Prof. J.K. Kim (Korea) and Dr. B. D. Karande for the keynote address. I am very much thankful to Prof. A.K. Das (Indian Statistical Institute, Kolkata), Prof. V. Kannan (Hyderabad), Prof. Vittorio Colao (Italy), Prof. Mehmat Kucukaslan (Turkey), Prof. Dr. Javid Ali (Aligarh Muslim University, Aligarh), Izhar (Delhi) Prof. D.D. Pawar (SRTMU Nanded) etc. all speaker and participants for gracing the conference with their presence and valuable speech.

The organization of the present International Conference has become possible with the financial support from NBHM, INSA, CSIR, SERB and SRTMU Nanded, so I thanks for their valuable financial support.

I take this opportunity to thank all of them, Our Dayanand Education Society has generously supported to me My special thanks are to Hon. Laxmiraman Lahoti (President, Dayanand Education Society, Latur), Hon. Arvind Sonwane (Vice-President, Dayanand Education Society, Latur), Hon. Ramesh Biyani (Secretary, Dayanand Education Society, Latur)



Dear colleagues,

We give an immense pleasure to invite you to participate in the online International Conference on Nonlinear Analysis and its Applications (ICNAA-2020). All mathematicians and researchers in the branches of Mathematics, Mathematical Physics and Applied Engineering are kindly requested to submit original abstracts for presentation. For more information about the guidelines, please check the website www.dayanandcollege.edu.in/2020

Objectives:

The main aim of International Conference on Nonlinear Analysis and its Applications (ICNAA-2020) is requested to provide an international platform that allows researchers, academicians and industry experts to share and discuss their research ideas in the theoretical and applied areas regarding all aspects of nonlinear analysis and its related areas. The Conference also provides great opportunity for participants to exchange new innovative ideas and experiences to establish current research work in applied Sciences.

Themes of Conference:

- Applied Mathematics & Modeling
- Numerical Analysis
- Fluid Mechanics
- Heat and Mass Transfer
- Mathematical Physics
- Image Processing
- Applications in:
 - Stochastic Systems
 - Operations Research
 - Optimization
 - Linear and Nonlinear Programming
- Financial Mathematics
- Statistical Mathematics
- Industrial Mathematics
- Software & Applications of:
 - MAPLE
 - MATHEMATICA
 - NCSS
 - SPSS
 - R(MAT)
- Mathematical Physics
- Elastic Properties
- Classical Mechanics
- Thermodynamics
- Mathematical Computational Techniques
- Differential Equations
- Dynamical System & Chaos
- Modeling and Simulation
- Analysis & Its Applications
- Fixed Point Theory
- Functional Analysis
- Set Theory
- Matrix Theory
- Approximation Theory
- Nonlinear Integral-differential equations
- Integral Transform
- Geometry & Its Applications
- Generators
- Topology
- Algebraic Geometry
- Group Theory
- Differential Geometry
- Fractals

Areas not included above:

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About Institution:

Dayanand Education Society is one of the oldest educational institutions which was established in 1947. The motto of institution is "in all we give and give". Let the noble thoughts come to us from all the directions of the universe. In the campus of Dayanand Education Institute there are six different Colleges imparting education from Junior to Senior College level to 15,000 students. In this Institute, about 800 teaching and non-teaching staff who continuously strive hard to achieve the mission and goals of the Society. The modest beginning was the foundation of Dayanand College of Arts, Science and Commerce in the year 1967. In 1984, the inclusion of (Date) Shri. Manikrao Suryawade and (Date) Shri. Bala Narayandaji Lakhani as the Governing Board of the Society in 1984 gave tremendous impetus for the development of the Society. The institution has now made such a rapid progress with the establishment of some separate single faculty colleges run by the Society. The institution has bagged many State and National awards. Recently, the Institution celebrated Golden Jubilee and organized different programmes. His Excellency Hon. Prakash Madhavji, the **President of India**, visited his premises at the closing ceremony of the programme. The motto has gone far ahead, not only inspiring but also enriching each and every academic year.

About The College:

Dayanand Science College, Latur, is unique, first oldest and the finest single faculty college in the region of Maharashtra, pursuing excellence in science education with several branches. Dayanand Science College became independent in 1987. The College not only provides education in basic and applied subjects, but also pays attention to the current innovative approaches towards the higher education. The college has 13 subject combinations for UG programs, 07 PG programs, 05 Research centers and 04 CDP Programs. The Research centers have collaboration with the research centers and academy of the various countries, such as USA, Korea, Switzerland, Poland, Greece, Malaysia, Romania, Oman, Thailand and Singapore etc. Due to the quality education, the college received different National and International awards and schemes. In the year 2012, our institution received Shri. Ch. Arundhanji Award by Maharashtra State Government. In 2013, the college received DST-FIST recognition. In the year 2018, College had been awarded "A" grade in NAAC Accreditation. It ranks with CGPA 3.14 out of 4.00. In the year 2015, College received Best College (Global) Award from SEMM University, Nanded. In the year 2016, College has been awarded "College with Potential for Excellence Award (CPE)" by UGC and able to receive grant of Rs. 5-Crore in three phases. Our Principal, Dr. S.S. Bellale has been recently awarded by "Best Principal Award" by SEMM University, Nanded. The college is well known about the development of "Latur pattern of Education" in the state of Maharashtra for the meritious pattern. In last five years college organized 17 INSTITUTE Camps and 5 summer courses under the co-mentorship of Former Principal R.H. Laxda. Our College organized 1 International, 18 National, 12 State / Regional conferences and workshops.

About the Department:

The Department of Mathematics in the postgraduate Department in SEMM University, Nanded for LLPG and Ph.D. level programs. This department runs one-year career-oriented program (COE) in MATHEMATICS. This department has active research center which is in collaboration with various National and International research centers. The faculty members of this department have given several talks in the international conferences in different countries like USA, Korea, Switzerland, Poland, Greece, Malaysia, Romania, Oman, Thailand, Iran, Singapore etc. In the last five years, the department has organized 05 regional research competitions for UG and PG students. The Department organized 05 National Conferences, 05 National workshop on various and 02 regional workshop on research methodology for the faculty. Also department organized 05 Ph.D. Courses works for the faculty, research students. In 2017 Department organized the International Conference on Mathematical Analysis and Its Applications (ICMAA2017). In this Conference 400 participants participated and 200 papers were presented. Nearly about 23 abstract presentations were participated. Department has well equipped MATLAB having 70% Internet and Mathematics Software such as MATLAB, MATHEMATICA, SCILAB, LATEX, CPLEX, LINGO, MAPLE etc. which are useful for UG to Ph.D. Students. There are 18 Research students who are doing their Ph.D. in Mathematics under the guidance of Dr. S.S. Bellale & Dr. H.J. Karande.

Abstracts:

Original unpublished abstracts are invited for presentation in the conference. The abstract will be published in abstract book of the conference. The abstracts may kindly be sent to the convener by email sdhbellale@gmail.com, sas2013@gmail.com or by online submission: www.dayanandcollege.edu.in/2020

Important Dates:

| | |
|--|-------------------------------------|
| Registration & Submission of Abstract Deadline | 25 July 2020 |
| Publication of Abstract Programme | 2 days after submission of abstract |
| Early Registration & Program Deadline | 20 July 2020 |
| Duration of ICMAA 2020 | 27-28 July 2020 |


Registration Fee:

| S.N. | Particulars | Participants | Participants with Presentation | Last Date of Submission |
|------|-------------------|--------------|--------------------------------|-------------------------|
| 1 | Foreign Scholars | INR 200 | INR 250 | 25 July 2020 |
| 2 | Faculty Members | Rs. 500 | Rs. 700 | 20 July 2020 |
| 3 | Research Scholars | Rs. 300 | Rs. 400 | 20 July 2020 |
| 4 | PG Students | Rs. 200 | Rs. 300 | 20 July 2020 |

The registration fee may be paid online. Sample pay: "Paytm" (Phone pay) (Internet Banking on the Account of "Prakash, Dayanand Science College, Latur" Bank Name: State Bank of Maharashtra, MIDC, Haveli, Latur. www.sbm.in)

Note:

- The hard copy of the certificate and documents will be sent on registered address participants.
- The hard copy of the certificate and documents will be sent on registered address of speakers.


Head
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 Dayanand Science College
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