



5th INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN MATHEMATICAL SCIENCES AND APPLICATIONS (RAMSA-25)

19th to 22nd DECEMBER 2025 Organized by

Departments of Civil Engineering, Chemical Engineering, CSE, ECE, EEE, Mechanical Engineering, Mathematics, Physics and Chemistry of Gayatri Vidya Parishad College of Engineering (Autonomous)

&

**G.V.P-Prof.V.Lakshmikantham
Institute for Advanced Studies(GVP-LIAS)**

**Gayatri Vidya Parishad College of Engineering (Autonomous)
Madhurawada, Visakhapatnam-530048
Phone: (+91)8985649078**

**In Association with
International Federation of Non-Linear Analysts
(IFNA)**

Memorial Lectures



Prof. Dr. S. Minakshi Sundaram Head of the Dept. of Mathematics, Andhra University. (1913-1968)



Prof. Dr. A. V. Balakrishnan
Distinguished professor emeritus and research
Professor of Electrical Engineering
(1922-2015)



Prof. Dr. V. Lakshmikantham
Founder, Director of GVP-LIAS
Founder, President IFNA (1924-2012)



Prof. Dr. J. Gopala Krishna Principal for A.U. College of Science and Technology, Andhra University (1933-2016)



Prof. Dr. V. Lakshmikantham
Founder-Director of GVP-LIAS
Founder-President of IFNA
(1924 - 2012)

Professor V. Lakshmikantham reached UCLA, USA, in 1960 after accepting a fellowship offered by Professor Earl Coddington, where he wrote thirty research papers in three years and gained recognition by popularizing the Lyapunov method along with his own work in differential inequalities. He later spent a year each at the University of Wisconsin, Madison, RIAS, Baltimore, and the University of Calgary, Canada. Following this, he worked in the Department of Mathematics at the University of Rhode Island, Kingston, before serving as Professor and Head of the Department of Mathematics at the University of Texas, Arlington (1973–1989), and later at the Florida Institute of Technology, Melbourne, Florida (1989–2009).

Having travelled throughout the world and lecturing in nearly all institutions where research in differential equations and nonlinear analysis is conducted, he met many young researchers as well as experienced scientists. He encouraged each one to achieve their potential and supported them in numerous ways. His extensive contributions, including over 600 publications with different co-authors, more than 50 research monographs with various collaborators, and membership on the editorial boards of numerous journals, all stand as testimony to his generosity and compassion in promoting talent.

GVP-Prof. V. Lakshmikantham Institute for Advanced Studies (GVP-LIAS):

Since its inception in 2007, the GVP-Prof. V. Lakshmikantham Institute for Advanced Studies (GVP-LIAS) has actively supported and promoted the ideas of Prof. V. Lakshmikantham. The institute uses its sphere of influence to bring resource persons from various parts of the world and works in close cooperation with the Department of Mathematics, as well as with all engineering departments and GVP institutions. It has undertaken three funded research projects: A Qualitative Study of Set Differential Equations Involving Causal Operators with Memory (DST), A Qualitative Study of Graph Differential Equations and Matrix Differential Equations (NBHM), and A Computational Study of Fractional Differential Equations (SERB). Since its inception, members of GVP-LIAS have completed at least 20 books, including textbooks, scientific research monographs, felicitation volumes, conference proceedings, and works published in native languages such as Telugu and Marathi. The institute celebrated the centenary year of Prof. V. Lakshmikantham by organizing various events, workshops, and faculty development programs (FDPs). Over the years, LIAS has also organized many national conferences and five international conferences—four under the title RAMSA (2009, 2013, 2017, and 2021) and the fifth being the International Conference on Latest Advances, Contributions & Applications in Nonlinear Analysis, held in March 2024 to mark the completion of Prof. V. Lakshmikantham's centenary year.

Gayatri Vidya Parishad College of Engineering (Autonomous) (GVPCE(A)):

Gayatri Vidya Parishad (GVP) was established in 1988 as an educational trust by a group of eminent educationists, academicians, industrialists, and individuals with a deep sense of human values, with the objective of empowering the young generation through high-quality technological education. To further this vision, the GVP College of Engineering was founded in 1996 with the divine blessings of Sadguru Sri K. Sivananda Murthy Garu, marking the beginning of the society's contribution to engineering education.

Under the leadership of Prof. Dr.-Ing. P. S. Rao, former Professor and Dean of Industrial Consultancy and Sponsored Research at IIT Madras, GVPCE(A) initially started with four B.Tech programs and an intake of 200 students.

Today, the college offers 11 B.Tech programs, nine M.Tech programs, and one M.C.A program, with a total intake of 1,362 students. The institution is accredited by the NBA of AICTE and by NAAC with an 'A++' grade for seven years in its 3rd cycle. It was granted autonomous status by JNTU-K in 2009 upon the recommendation of the UGC.

The institute achieved a significant milestone by receiving Rs. 4 crore under Subcomponent 1.2 of the Technical Education Quality Improvement Program Phase II (TEQIP-II) for scaling up postgraduate education and demand-driven research, development, and innovation in the country.

Recognized by the Indian Society for Technical Education as "The Best Engineering College" of Andhra Pradesh and Telangana, the college also houses an established Skill Development Centre with six laboratories in collaboration with APSSDC and Siemens, along with a dedicated Incubation Centre that supports 10 active start-ups under its Centre for Innovation.

Objective:

The objective of the conference is to bring together researchers from various fields of engineering and science onto a common forum, recognizing the interrelations and interconnections among diverse subjects through their underlying mathematics. It also seeks to enable scientists from different disciplines to benefit from the experiences of their counterparts, while further aiming to highlight the key relationships among these fields.

Theme:

The theme of the conference is to promote and encourage collaborative and interdisciplinary research among faculty members from various engineering disciplines and the mathematical sciences.

Submission Details

Deadline for submitting paper/poster Title and Abstract	15th November	2025
Deadline for submitting paper/poster submission	25th November	2025
Notification of schedule	12th December	2025
Camera Ready full papers for peer review(Maximum 8 pages)	22nd December	2025

NOTE: For further details please visit the website.

Registration Details

	Early bird (Before 15th dec 2025)	Late registration (After 15th dec 2025)
Delegates		
International	USD 150	USD 170
Industry	RS 6000/-	RS 7000/-
Academicians	RS 4000/-	RS 5000/-
Research scholars and students	RS 2500/-	RS 3000/-
Payment for accompanying person	RS 1000/-	RS 1500/-

Patrons and Advisory Board

Chief Patrons

Prof. Ing. P. Srinivasa Rao
President, Gayatri Vidya Parishad,
Visakhapatnam, India.

Prof. C. Tsokas
President, IFNA, Distinguished
Professor, University of South
Florida, USA.

Patrons

Sri. D. Dakshinamurthy
Vice-president , Gayatri
Vidya Parishad.

Prof. K. P. R. Sastry
Vice-president , Gayatri
Vidya Parishad.

Prof. S. Sundar
Director, NIT Mizoram
Hon. Director for GVP-
LIAS.

Prof. P. Somaraju
Secretary, Gayatri
Vidya Parishad.

Technical Advisory Board

Dr. V. Adimurthy (India) (confirmed speaker)
Dr. Ravi Agrawal (USA) (confirmed speaker)
Dr. Zahia Drici (USA) (confirmed speaker)
Dr. T. Gnana Bhaskar (USA) (confirmed speaker)
Dr. Xinzhi Liu (Canada) (confirmed speaker)
Dr. S. Madhavan (India) (confirmed speaker)
Dr. Farzana McRae (USA) (confirmed speaker)
Dr. R. Jayaganthan (India) (tentative speaker)
Dr. Shibayan Roy (India) (confirmed speaker)

Dr. Billur Kayamacalan (Turkey) (confirmed speaker)
Dr. Usha Sridevi Sridhar (Australia) (confirmed speaker)
Dr. Panchatacharam Mariappan (India) (confirmed speaker)
Dr. G. P. Rajsekhar (India) (confirmed speaker)
Dr. J. V. R. Murthy (India) (confirmed speaker)
Dr. M. A. Pathan (India) (confirmed speaker)
Dr. K. N. V. Vara Prasad (India) (confirmed speaker)
Dr. Ch. Ravi Sekhar (India) (confirmed speaker)
Dr. P. S. Avadhani (India) (confirmed speaker)

Local Advisory Board

Prof. D. V. S. Kameswara Rao,
Joint Secretary, Gayatri Vidya Parishad.

Sri. V. R. K. Siva Prasad
Treasurer, Gayatri Vidya
Parishad.

Prof. P. V. Sarma
Member, Gayatri Vidya Parishad.

Prof. P. Raja Ganapathi
Member, Gayatri Vidya
Parishad.

Prof. S. Atchutaramam
Dean, Administrations.

Prof. K. B. Madhuri
Dean, School of CSE, IT &
Computer Applications.

Prof. P. Veerabhadra Rao
Dean, Planning and
Infrastructure.

Prof. Dr. K. Narasimha Rao
Dean, Academics (PG),
Examinations & Evaluation.

Prof. R. K. Goswami
Principal, GVPCEW (India).

Prof. P. Venkat Rao
Dean, Placements, Industry
relations, PIO.

Prof. M. V. S. Sai Ram
Dean, Academic Programs, UG.

Prof. Krishna Subba Rao
Dean, Student Affairs.

Prof. M. Phani Krishna Kishore
Dean, Dept. of I.T. & Dean, Software
Development & Networking.

Prof. C. V. K. Bhanu
Dean, IQAC

Prof. B. Biswal
Dean, Research &
Development.

Dr. Manchikanti Srinivas
Dean, Alumni & Professional Bodies.

Dr. G. Sudheer
Vice Principal, GVPCEW(A).

Prof. K. S. Bose
Principal, GVPCDPGC.

Dr. P. Anuradha Kameshwari
Head, Dept. of Mathematics AU.

Dr. P. D. N. Srinivas
Professor, Dept. of Mathematics AU.

Organizing Committee

Chairman:

Dr. A. B. Koteswara Rao
Principal, GVPCE(A)

Organizing Secretaries:

Dr. R. V. G. Ravi Kumar
Head, Dept. of Mathematics (UG first year)

Dr. J. Vasundhara Devi
Associate Director, GVP-LIAS

Secretaries:

Dr. K. L. Sai Prasad
Department of Mathematics
GVPCEW(A)

Dr. Ch. Appala Naidu
Department of Mathematics
GVPCE(A)

Dr. S. S. Ayyappa Sastry
Department of Mathematics GVPCE(A)

Dr. Ch. V. Sreedhar
Department of Mathematics GVPCE(A)

Treasurers:

Dr. K. Sathyamurthy
Department of Mathematics GVPCE(A)

Dr. J. Satish
Department of Mathematics GVPCE(A)

Mr. I. S. N. R. G. Bharat
Department of Mathematics GVPCE(A)

Mr. B. Ram Prasad
Department of Mathematics GVPCE(A)

Joint Secretaries:

Dr. K. Satya Murty
Department of Mathematics
GVPCE(A)

Mr. G. Srikanth
Department of Mathematics GVPCE(A)

Dr. A. R. J. Srikanth
Department of Mathematics GVPCE(A)

Mr. B. Ram Prasad
Department of Mathematics GVPCE(A)

Members/Co-ordinators

Dr. B.Sreenivasulu

Professor & Head

Dept. of Chemical Engineering

Dr. C. V. Guru Rao

Professor & Head

Dept. of Computer Science & Engineering

Dr. G. V. E. Satish Kumar

Professor & Head

Dept. of Electrical and Electronics Engineering

Dr. B. Govinda Rao

Professor & Head

Dept. of Mechanical Engineering

Dr. G. Papa Rao

Professor & Head

Dept. of Civil Engineering

Dr. N. Deepika Rani

Professor & Head

Dept. of Electronics and Communication Engineering

Dr. K. B. Madhuri

Professor & Head

Dept. of Information Technology

Dr. R. Praveena

Head,

Dept. of Physics

Dr. K. V. Naga Lakshmi

Head,

Dept. of Chemistry

Dr. N. Giri Babu

Dept. of Mathematics

Dr. G. V. Hindumathi

Dept. of C.S.E.

Dr. M. V. Pankaj Lahari

Dept. of E.E.E.

Dr. K. V. Vara Lakshmi

Dept. of Mechanical Engineering

Dr. A. Nalineekumari

Dept. of ECE

Dr. M. Rama Rajeswari

Dept. of Chemistry

Dr. V. Mahalakshmi Naidu

Dept. of Civil Engineering

Dr. B. Jaya Lakshmi

Dept. of I.T

Mr. I. V. S. Venu Gopal

Dept. of I.T

Dr. P. V. Rajeswari

Dept. of Physics

Mr. G. Naga chaitanya

Dept. of Chemical Engineering

Dr. S. Rajesh

Dept. of Basic Sciences and Humanities GVP

College for Degree & P.G. Courses

Thrust Areas

Chemical Engineering: The areas are Mathematical Modelling on Green technologies, Alternate Energy Sources, Circular Economy & Waste Valorization, Energy Storage & Conversion.

CIVIL Engineering: Structural Engineering, Transportation and Geotechnical Engineering, Remote sensing & GIS, Water Resource Management.

Electrical and Electronics Engineering: Modelling and Simulation of Power Systems, Power Electric Circuits, Realtime simulation of electrical systems, Novel Teaching/Learning methods for electrical systems, All methods for electrical systems.

Electronics and Communication Engineering: Wireless Communication, Signal Processing Circuits and Systems, Internet Of Things.

IT/CSE/CSD/CSM: The conference covers a wide range of topics including Information Security (with special emphasis on Cyber Security), Image Processing, Machine Learning, Deep Learning, Data Mining (with special emphasis on Big Data), Computer Networks, Bioinformatics, Natural Language Processing, Internet of Things, Cloud Computing, Software Engineering, and Theoretical Computer Science, which encompasses Data Structures, Theory of Computation, Quantum Computing, and Generative AI.

Mechanical Engineering: The conference also focuses on areas such as Robotics (Analysis, Control, and Design), Engineering Applications of Optimization Methods, Computational Fluid Dynamics, Nanotechnology (Synthesis of Materials), Finite Element Analysis, Thermal Systems, Composite Materials, and Vibrations.

Mathematics: Non-Linear Analysis, Discrete Mathematics, Mathematical Modelling.

Physics: Quantum Information: Materials and Technologies, Additive manufacturing of Nano materials, Functional Materials: computational design and sustainable synthesis approaches.

Chemistry: NanoTechnology, Catalysis, Solid State Chemistry, Synthetic Organic chemistry.

*The Thrust Areas are not limited to the above mentioned areas of study only.

Publication of Proceedings:

Selected papers will be published after Peer Review in a scopus indexed and/UGC approved journal

For Further details,Contact:

Dr. J. Vasundhara Devi, Associate
Director,GVP-LIAS,
GVP College Of Engineering, Madhurawada, Visakhapatnam-530048
Ph:(+91)8985649078,(+91)9490131784.

Speakers please submit your abstracts to

Email: secretary_ramsa25@gvpce.ac.in

Website: <https://gvpce.ac.in/RAMSA/2025>

For discipline-wise Information contact Department coordinators.Please submit your Abstract of the paper to print in book of abstracts and full paper for peer review to the respective coordinators:

Civil Engineering:

Dr. V. Mahalakshmi Naidu
E-Mail:coordinator_civil_ramsa25@gvpce.ac.in

Ph:+91-9705506898

Chemical Engineering:

Mr. G. Naga Chaitanya E-
Mail:coordinator_chemical_ramsa25@gvpce.ac.in

Ph:+91-63033 56378

Computer Science & Engineering:

Dr. G. V. Hindumathi
E-Mail:coordinator_cse_ramsa25@gvpce.ac.in

Ph:+91-9966967478

Electronics and Communications Engineering:

Dr. A. Nalineekumari
E-Mail:coordinator_ece_ramsa25@gvpce.ac.in

Ph:+91-9182649742

Electrical and Electronics Engineering:

Dr. M. V. Pankaj Lahari
E-Mail:coordinator_eee_ramsa25@gvpce.ac.in

Ph:+91-96405 97516

Information Technology:

Dr. B. Jaya Lakshmi
E-Mail:coordinator_it_ramsa25@gvpce.ac.in

Ph:+91-9440084015

Mechanical Engineering:

Dr. K. V. Varalakshmi
E-Mail:coordinator_mechanical_ramsa25@gvpce.ac.in

Ph:+91-8074508812

Mathematics:

Dr.N.GiriBabu
E-Mail:coordinator_mathematics_ramsa25@gvpce.ac.in

Ph:+91-8309588801

Physics:

Dr. P. V. Rajeswari
E-Mail:coordinator_physics_ramsa25@gvpce.ac.in

Ph:+91-94415 74580

Chemistry:

Dr. M. Rama Rajeswari
E-Mail:coordinator_chemistry_ramsa25@gvpce.ac.in

Ph:+91-98859 37902