



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, IT, CSE, CSE(AI&ML), CSE(DS), MCA, ECE, EEE, Mechanical Engineering, Mathematics, Physics and Chemistry of Gayatri Vidya Parishad College of Engineering (Autonomous)

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

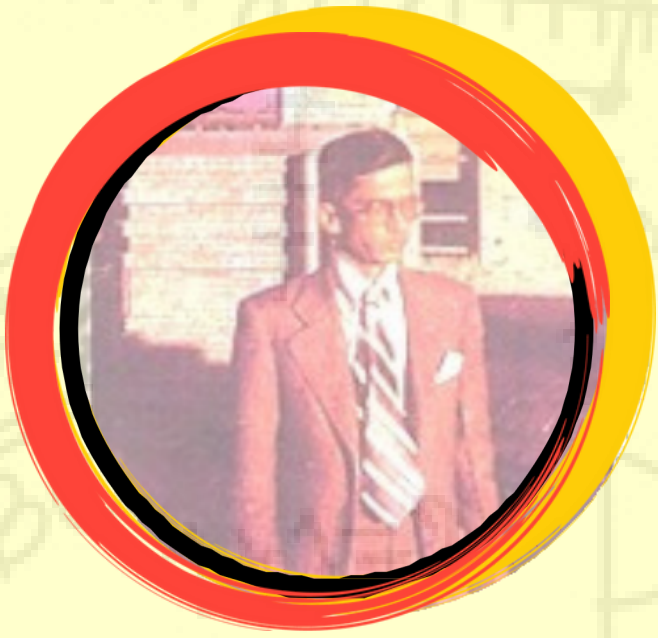
Gayatri Vidya Parishad College of Engineering (Autonomous)

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 |

Registration Details

| DELEGATES | Early bird (Before 15th dec 2025) | Late registration (After 15th dec 2025) |
|---------------------------------|--------------------------------------|--|
| 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/- |

Payment Details

Account Name: GVPLIAS
Account Number: 191912010000221
IFSC Code: UBIN0819191
Branch: Union Bank, Kommadi

NOTE: Extra amount is to be paid for accommodation. For more details please visit the website: <https://gvpce.ac.in/RAMSA/2025> after 1st November, 2025

For Registration open this link: <https://forms.gle/YNyddE5rLkUJnNUB7>

After Registration for further updates please join this WhatsApp group:
<https://chat.whatsapp.com/Kii1pig9x4K8G36EY8uPD3?mode=wwc>

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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, Function 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 the **Scopus** indexed journal, **Boletim da Sociedade Paranaense de Matematica**. Once the paper is accepted for publication, the authors must pay directly to the journal an amount of USD 60 towards article processing charges.

For further details, contact:

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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:

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