



**4th INTERNATIONAL CONFERENCE ON
RECENT ADVANCES IN
MATHEMATICAL SCIENCES AND APPLICATIONS
(RAMSA - 21)
(Virtual)
21st to 24th DECEMBER 2021
Organized by**

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

&

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

in association with

**International Federation of Nonlinear Analysts
(IFNA)**

Gayatri Vidya Parishad College of Engineering
(Autonomous)

Madhurawada, Visakhapatnam-530048

Phone: (+91) 8985649078,

Memorial Lectures of



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. S. G. Deo
Dept. of Mathematics, Goa University,
Former Director GVP-LIAS
(1933-2021)



Prof. I. H. Nagaraja Rao
Dept. of Applied Mathematics,
Andhra University, GVP-LIAS
(1940-2021)

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

GVP-Prof.V.Lakshmikantham Institute for Advanced Studies (GVP-LIAS) since its inception in 2007 took active part in supporting and promoting the ideas of Prof. V. Lakshmikantham. The institute uses its sphere of influence and helps to bring resource persons from various parts of the world. It believes in cooperation and works in collaboration with the Department of Mathematics, in particular all engineering departments and allied sciences in general. 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" (DST). At least 20 books have been completed by the members of GVP-LIAS since its inception. This includes text book, scientific research monographs, felicitation volumes, and proceedings of the conferences as well as books published in native languages Telugu and Marathi. LIAS has organized many national conferences, workshops and three international conferences (2009, 2013 and 2017). Further it has planned to organize the 4th international conference during 21st – 24th December 2021.

Gayatri Vidya Parishad College of Engineering (Autonomous):

Gayatri Vidya Parishad (GVP) was established in 1988 as an educational trust by a group of eminent educationists, academicians, industrialists, and those with a touch of human values to empower the young generation with a high quality technological education.

The engineering education by GVP society was established by an GVP College Of Engineering in the year 1996 with the divine blessings of Sadguru Sri K. Sivananda Murthy garu.

Prof. Dr. Ing. P. S. Rao, former Professor & Dean of Industrial Consultancy and Sponsored Research, IIT Madras, was the first principal and it was initially started with 4 B.Tech programmes with an initial intake of 200.

Now the college is offering with 10 B.Tech program and 10 PG (9 M.Tech and M.C.A) programs with a total intake of 1362 students. The college is accredited by NBA of AICTE, and accredited by NAAC with 'A' grade with CGPA Of 3.47/4.00. Autonomous status was recommended by UGC and conferred by JNTU-K in the year 2009.

The institute reached another mammoth milestone by receiving fund to the tune of Rs 4 crore under sub-component 1.2 of Technical Education Quality Improvement Program Phase II (TEQIP-II) for Scaling-up PG Education and demand-driven Research & Development and Innovation in the country.

It is recognized by Indian Society for Technical Education as "The Best Engineering College" of Andhra Pradesh and Telangana States.

The college has 117 Doctorates out of 280 faculty. The college is eligible for PIO and NRI admissions into UG and PG programmes.

The college boasts of an established Skill Development Centre with 6 Laboratories in tandem with APSSDC and Siemens and a dedicated Incubation Centre with 10 start ups at work under Centre for Innovation.

Objective:

The objective of the conference is to bring together researchers of various fields in Engineering and Science onto a common forum to recognize the interrelations and interconnections among diverse subjects on the basis of their underlying mathematics and also enable scientists from every discipline to be benefited from the experiences of their counterparts in other disciplines. Further the conference aims at highlighting the key relationships.

Theme:

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

Submission Details

Deadline for submitting Title and Abstract	1st December 2021
Notification of schedule	12th December 2021
Deadline for paper submission	15th December 2021
Camera Ready full papers for peer review (Maximum 8 pages)	19th December 2021

Registration Details

Delegates	Early bird (Before 1st dec 2021)	Late reg (After 1st dec 2021)
International	USD 150	USD 170
Industry	RS 6000/-	RS 7000/-
Academicians	RS 4000/-	RS 5000/-
Research scholars and students	RS 2500/-	RS 3000/-

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President, Gayatri Vidya Parishad

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Thrust Areas:

Chemical Engineering

•Mathematical Modelling on Green technologies, Alternate energy Sources, AI.

Civil Engineering

•Numerical Modelling with Emphasis on-Transportation Engineering, Water Resources Engineering, Remote Sensing and GIS applications, Geo Technical Engineering, Structural Engineering and Optimization.

Electrical and Electronics Engineering

•Modelling of Power Systems, Modelling of Power Electric Circuits, Modelling of intelligent Systems, Mathematical Modelling of Engineering Systems.

Electronics and Communication Engineering

•Wireless Communication, Signal Processing, Image & Video Processing, VLSI Circuits and Systems, Internet of Things.

IT/CSE/MCA

•Information Security (with special emphasis on Cyber Security), Image Processing / ML / DL, Data Mining (with special emphasis on Big Data), Computer Networks, Bio-Informatics, Natural Language Processing.

Mechanical Engineering

•Robotics : Analysis. Control and Design, Engineering Applications of Optimization Methods, Computational Fluid Dynamics, Nano Technology (Synthesis of Materials), Finite Element Analysis.

Department of Mathematics

•Non Linear Analysis, Discrete Mathematics, Mathematical Modelling.

Department of Physics

•Computational method, Functional Methods, 2D Materials..

Department of Chemistry

•Nano Technology, 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

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Speakers please submit your abstracts to

Email: secretary_ramsa21@gvpce.ac.in

Website: www.gvpce.ac.in/ramsa2021.html

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