



DEPARTMENT OF MATHEMATICS

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHAVIDYALAYA (SCSVMV)

(Deemed to be University u/s 3 of UGC Act 1956) (Accredited with "A" Grade by NAAC)
Enathur, Kanchipuram-631561.

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GANITHI VAARTHA

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ABOUT THE DEPARTMENT

The Department of Mathematics, established in 1994, aims to impart state of the art knowledge, practical skills in the latest advancements in the respective domain to achieve excellence in both academic and research perspectives. The department fosters excellence in B.Sc., M.Sc., and research programs (M.Phil. and Ph.D) and acts as a supporting department to all Engineering courses, B.Sc.(CS), B.C.A, M.C.A and M.B.A. The department has qualified and goal-oriented 22 faculty members who are actively involved in research in diverse areas such as Algebra, Graph Theory, Queuing Theory and Operations Research. Interdisciplinary research is also encouraged. The department is strengthened by a faculty team of 22 members among which 16 are doctorates. So far 34 Ph.D degrees have been awarded and five scholars are pursuing research under the department. The focus on research promotes the publications and 286 research papers were published in the last five years.

GREETINGS FROM DEPARTMENT CHAIR

It is a great pleasure to extend my heart felt greetings to the readers of the ninth edition of ganithavaartha, department newsletter. I sincerely hope that you will enjoy reading about the accomplishments of our faculty. The Newsletter is published twice in a year. This issue contains the activities about our department from July to December, 2020. The department is regularly organizing workshops, seminars, quality enrichment programs, research colloquiums etc., to be familiar in the latest trends in mathematics and career guidance programs and skill development courses are introduced for our students to face the competitive world. Also, our students are encouraged to actively participate in various competitions organized by other departments and to present papers in conferences and seminars.



Dr. K. Srinivasa Rao

FACULTY TEAM

S.No.	Name	Designation	Area of Specialization
1.	Prof.Dr.K.SrinivasaRao	Professor & Head	Algebra
2.	Dr.N.Saradha	Assistant Professor	Graph Theory
3.	Dr. R.Malathi	Assistant Professor	Multi Valued Logic
4.	Dr. D. Vijayalakshmi	Assistant Professor	Graph Theory
5.	Dr. E.Geetha	Assistant Professor	Fluid Dynamics
6.	Dr. R.Mageswari	Assistant Professor	Graph Theory
7.	Dr. P.Nagarajan	Assistant Professor	Queuing Theory
8.	Dr. P.Balaji	Assistant Professor	Petri Nets
9.	Dr. S.Vijayarathi	Assistant Professor	Algebra
10.	Dr.K.Pramila	Assistant Professor	Fuzzy Set Theory
11.	Dr.J.SengamalaSelvi	Assistant Professor	Applied Mathematics using ICT
12.	Dr.V.K.Radhakrishnan	Assistant Professor	Operations Research
13.	Dr. A.Dhanalakshmi	Assistant Professor	Graph Theory
14.	Dr.K.Bharathi	Assistant Professor	Operations Research
15.	Dr.T.N.Kavitha	Assistant Professor	Algebra
16.	Dr. A.Gayathri	Assistant Professor	Mathematical Physics
17.	Mrs.B. Amudha	Teaching Assistant	Real Analysis
18.	Mr. K.Saravanan	Teaching Assistant	Graph Theory
19.	Mrs .A. Shakila	Teaching Assistant	Graph Theory
20.	Mrs.P.Revathy	Teaching Assistant	Topology
21.	Mrs. G.Subasri	Teaching Assistant	Graph Theory
22.	Mrs. N.Meenakshi	Teaching Assistant	Graph Theory

OUTREACH PROGRAMMES

1. Dr.K.Srinivasa Rao delivered an Invited talk in National Webinar on MATLAB and Its Applications, Organized by the Department of Mathematics, Aurora's Degree and PG College, Hyderabad, on 5th July 2020.
2. Dr.K.Srinivasa Rao delivered a talk on Getting Started with MATLAB in Aacharya's International Webinar Series, organized by Aacharya.net (The Hub of Qualified Teachers), on 26 th July, 2020.
3. Dr.K.Srinivasa Rao delivered a talk in One-Week International Online International Faculty Development Program on Mathematical Prototypes and their Applications in Engineering and Science, organized by S.R.K.R. Engineering College, Bhimavaram, Andhra Pradesh, during 26th July -1st August, 2020.
4. Dr.K.Srinivasa Rao delivered a talk in the International Conference on Mathematical Advances & Applications 2020 on the topic Maximum Degree Estra Index, organized by REd Talks Daily International, Vijayawada, AndhraPradesh, India, during August 07-08, 2020
5. Dr.K.Srinivasa Rao acted as a Chair Person in the International Conference on Mathematical Advances & Applications 2020, organized by REd Talks Daily International, Vijayawada, Andhra Pradesh, India, during August 07-08, 2020
6. Dr.K.Srinivasa Rao acted as a resource person for Online One Week Short Term Course on MATLAB Applications for Applied Science and Engineering Problemsheld from 12-10-2020 to 19-10-2020 at UGC-Human Resource Development Centre, JNT University, Hyderabad.
7. Dr.K.Srinivasa Rao delivered a talk in the Institute of Mathematics and Management On-line Conference on Mathematical & Biological Sciences 2020 on thetopic MATLAB and Applications, held at Melbourne, Australia on29th and 30th October 2020, organized by Institute of Mathematics and Management, Sri Lanka.

GANITHA UPASTHITI PRABANDAN

Dr V K Radhakrishnan, Assistant Professor of Mathematics, designed/developed an attendance management system, "Ganitha Upasthiti Prabandan", using Google Forms to maintain the attendance record of Mathematics Department course during this lockdown/online classes period which also calculates the attendance percentage of all the students.



[M.Sc., Mathematics (200-200-2)]				
Roll No.	Name	Attendance Percentage	%	REMARK
2100001	Dulga H	16	1	100
2100002	Cheruvu K	16	1	100
2100003	Dipati H	16	1	100

Subject	Staff Name	No. of Classes
1719 - Algebra - I	Dr. K. Srinivasa Rao	21
1720 - Algebra - II	Dr. K. Srinivasa Rao	21
1810 - Algebra - III (Geometry and Topology)	Dr. K. Srinivasa Rao	21
1811 - Algebra - IV	Dr. K. Srinivasa Rao	21
1812 - Algebra - V (Number Theory)	Dr. K. Srinivasa Rao	21
1813 - Algebra - VI (Number Theory)	Dr. K. Srinivasa Rao	21
1814 - Algebra - VII	Dr. K. Srinivasa Rao	21

JOURNAL PUBLICATIONS

1. K.SrinivasaRao, B.Amudha, Ismail Naci Cangul, Hosoya Polynomial and Wiener Index of Concatenated Octachains, Advanced Studies in Contemporary Mathematics, 30(2020),No.4, pp. 609-622

AWARDS RECEIVED

1. R.Malathi, Received Best Teacher Award, International Level Lions Club, Kanchipuram held on 20.10.2020.
2. R.Malathi, Received WOMEN RESEARCHER AWARD in the 8th International Scientist Awards on Engineering, Science and Medicine, held on 21 & 22 – August- 2020, Madurai, India, Organized by VDGGOOD Professional Association.
3. A.Dhanalakshmi, Received Young Women Mathematician Award from Infinity Awards 2020 Organized by Rathinam College of Arts & Science, Coimbatore held on 22.12.2020.

PAPER PRESENTATIONS

1. R.Malathi, Medium Domination Number of a Mongolian Tent Graph during 1st online National Conference on Recent Trends in Science & Technology (RTST – 2020) held on November 21st 2020 organized by department of Applied Sciences. Faculty of Engineering & Technology. Manav Rachna International Institute of Research and Studies, Faridabad Haryana, India.
2. R. Malathi, Finding Maximum Independent Set of Mongolian Tent Graph $M_{r,3}$ in the National Conference on “Mathematical Modelling with Differential Equations – NCMMDE2020” held during 14th October – 17th October 2020. DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE, Chennai – 600106.
3. R. Malathi, Discussion about chromatic number, total number of vertex and edges in Mongolian Tent Graph $M_{r,3}$ in the “ International Conference on Advance in Science, Engineering & Mathematics (ICASEM 2020)”, Conducted by Department of Mathematics, Annamacharya Institute of Technology and Science held on 7th to 9th, August 2020 in virtual mode.
4. R. Malathi, Finding Laplacian Matrix for Mongolian Tent Graph $M_{r,3}$ using Diagonal Matrix in the “ International Conference on Advance in Science, Engineering & Mathematics (ICASEM 2020)”, Conducted by Department of Mathematics, Annamacharya Institute of Technology and Science held on 7th to 9th, August 2020 in virtual mode.

5. E.Geetha, Ramifications of Hall current, heat and mass transfer on MHD nanofluid flow past over an oscillating permeable vertical plate with radiation and chemical reaction on "International virtual conference on organized by smart advanced material science and engineering applications, on 3rd –5th December, 2020 organized by KL University, Kuntur.
6. E.Geetha, Effects of heat and mass transfer of nanoparticles in an impulsively started vertical plate on International virtual conference on organized by smart advanced material science and engineering applications, on 3rd – 5th December, 2020 organized by KL University, Kuntur.
7. Mageswari.R , Finding Surface Residues of a Protein through Augmented Zagreb Index presented in Virtual International Conference on Surface Chemistry 27-28th August 2020, organized by Department of Chemistry, Annamalai University, Annamalai Nagar, India.
8. Mageswari. R, Finding Hydrophobic Core of a Protein through Augmented Zagreb Index presented in the national conference on Recent Frontiers in Fractional Calculus theory and its Applications (NCFCTA 2021), 7-8th March 2021, organized by Department of Mathematics, Vel Tech High Tech Dr.Rangarajan Dr.Sakunthala Engineering College, Chennai.
9. Mageswari.R , Protein Core Identification Through Perfect Domination presented in the national conference on Recent Frontiers in Fractional Calculus Theory and its Applications (NCFCTA 2021),7-8th March 2021, organized by Department of Mathematics, Vel Tech High Tech Dr.Rangarajan Dr.Sakunthala Engineering College, Chennai.
10. J.Sengamalaselvi, Appication of Membership Matrix in the Field of Medical Diagnosis, in International Conference on Advances in Science, Engineering & Mathematics (ICASEM-20) Annmacharya Institute of Technology And Science, Rajampet, A.P.Indiam held on 7th to 9th August 2020 in virtual mode.
11. J.Sengamalaselvi, Appication of Fuzzy Soft Matrix in Day Today Life in International seminar on “ Present Trends in Application of Mathematics PG and Research Department of Mathematics, Holy Gross College, Tiruchirappalli Indiam held on 16th to 17 th November 2020 in virtual mode.
12. A. Dhanalakshmi, Spectral Properties of Hexagonal Chain, International Conference on Advances in Science, Engineering and Mathematics(ICASEM-2020) organized by the Andra Pradesh and Telungana society for Mathematical Sciences, Annamacharya Institute of Technology and Sciences, Rajampet, Andra Pradesh held on 7th to 9th August 2020 in virtual mode.
13. A. Dhanalakshmi, Hosoya Polynomial and Wiener Index of Lattice Graph, National Conference on Mathematical Modelling with Differential Equations(NCMMDE2020) organized by the PG & Research Department of Mathematics, Dwaraka Doss Goverthen Doss Vaishnav College, Chennai held on 14th to 17th October 2020 in virtual mode.

14. A. Dhanalakshmi, Spectral Properties of King's Graph , International Conference on Advances in Science, Engineering and Mathematics(ICASEM-2020) organized by PG & Research Department of Mathematics , Holy Cross College, Trichy held on 16th to 17th November 2020 in virtual mode.
15. T N Kavitha, Explore the Respiratory infection's statistical analysis using R in 2nd international virtual conference on 'Role of Mathematics in present scenario'(RMPS-2020) on September 29, 2020 organised by Department of Applied Science, SIRT Bhopal.
16. T N Kavitha, A generalization of idempotent semigroup" in 'XXXIX Congress of APTSMS & National conference on Mathematics and its applications (NCMA-2020) on December 3rd - 5th, 2020 organised by Department of Mathematics, Mahatma Gandhi University, Nalgonda, T.S.

BOOK PUBLICATIONS

1. T N Kavitha has a contribution of Book chapter in "Philosophical reflections about the virtual world, CSI Publications November 2020, Springer.

SUMMARY OF ACADEMIC ACHIEVEMENTS DURING JULY-DECEMBER 2020

Number of Publications	No.of paper presented in national/international conferences	Number of seminars/workshops etc., attended	No.of outreach activities	Awards received
2	16	36	7	3

Any criticism, opinions and encouragement will be highly appreciated by the editors of the Newsletter