



Name: Dr. G.SIREESHA

Designation: Assistant Professor; Mathematics

Department: Humanities & Sciences

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Experience (in years): Teaching: 20years Research: 10 others (If any, Specify):

1. Educational / Technical qualifications:

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1	Ph.D.	2015	Applications of Group Theory
2	M.Phil.	2005	Applications of Group Theory
3	M.Sc.	1998	Mathematics
4	B.Sc.	1995	M.P.C

2. Teaching and Learning:

2.1. Teaching Interests:

- Discrete Mathematics
- Laplace Transforms
- Fourier Transforms
- Trigonometry
- Diff. Equations
- Linear Algebra

2.2. Novel Teaching & Learning Techniques adopted:

- POGIL
- Learning by doing
- Video presentation
- WIT & WIL
- Think, pair & Share
- Mind maps
- Concept maps

2.3. Involvement in curriculum updating / Design: Yes

3. Co-curricular and Extra-Curricular Activities

3.1. Interests and Hobbies:

- Reading books
- Listening Music

3.2. CCA/ECA Organized: NIL

3.3. CCA/ECA participated: NIL

3.4. Counseling and Mentoring Activity: Counseling for 1st & 2nd year students

3.5. Committees involved in:

Department level:

- Formatting the syllabus for bridge course during the first year induction programme.
- Timely updating the syllabus in the Curriculum Development.
- BOS - Department committee member.
- Member- NAAC
- Preparing Maths workload
- Maintaining Bos (Maths) file

Institute Level:

- Co – Curricular Activities such as a member of Annual Day celebrations
- Extra– Curricular Activities such as a member of Cultural Day celebrations

4. Conference / Workshop / Seminar / Guest Lectures:

4.1. Conducted:

4.2. Attended:

- Attended a seminar on “Understanding the Higgs Boson “by Prof. Sridhar Rao on 14/07/14 at VNR VJIET.
- Attended Foundation day lecture by D.N.Reddy on 21st sep,2014
- Attended a seminar on “Curriculum design & development on 2nd April,2015 at VNRVJIET
- Attended a seminar on overview of MATHEMATICA for education on 23rd Jan 2015
- Attended a three day workshop on “FINITE ELEMENT METHOD IN MECHANICAL ENGINEERING” 25th – 27th Feb, 2016.
- Attended a two day workshop on “Basic tools in Mat lab and R-Language at VNRVJIET, from 17th – 18th March, 2016.
- Attended a workshop on “Matrix Analysis through Octave” at VNRVJIET, on 12th May, 2016.
- Attended a two day workshop on “Innovative Pedagogy for Teaching and Learning Engineering Mathematics” at JNTUH College of Engineering, Hyderabad, from 29th-30th June, 2016.
- Attended a workshop on “Arduino for Everyone” at VNRVJIET, on 1st July, 2016.
- Attended an International conference on “Advanced Material Technologies (ICAMT)” at Dadi Institute of Engineering & Technology, Visakhapatnam during 27th-28th December, 2016.
- Attended a National workshop on” Applications of Advanced Mathematics in Engineering & Science” at Andhra University College of Engineering(A), Andhra University, Visakhapatnam from 28th February to 1st March, 2017.
- Attended a one week workshop on “Advanced Numerical Modelling Techniques for Mechanical Engineering” held during 27th-31st March 2017 at VNRVJIET, Hyderabad.
- Attended a four week Faculty development programme on “Foundation Program in ICT for Education” conducted by IIT- Bombay during 3rd August – 7th September ,2017.
- Attended a four week Faculty development programme on “Pedagogy for online and blended teaching-learning process” conducted by IIT- Bombay during 14th September –

12th October, 2017.

- Attended the python workshop on 22nd june, 2019 at VNRVJIET organised by the Teaching Learning Centre, ICT at IIT Bombay.
- participated in 'One day Workshop on R' on 9th November 2019 held at VNRVJIET organised by the Teaching Learning Centre, ICT at IIT Bombay.
- Attended 7 day international Faculty development programme on “Mathematical modelling in Multidisciplinary domain ” organised by Bannari Aman institute of Technology during 1st – 7th June, 2020.
- Participated 3 day online Faculty development programme on “Research methods and writing skills in Mathematical sciences ” organised by Bon Secours College For Women during 25th – 27th May, 2020.
- Participated in National level webinar on “Modelling and simulation of fluid flows using partial differential equations ” organised by CMR Engineering college held on 25th june, 2020.
- Participated 3 day online Faculty development programme on “Descriptive statistics through R-programming ” organised by KPR institute of Engineering and technology from 26th – 28th May, 2020.
- Participated in webinar on “Recent developments in Mathematics and its applications ” organised by Gitam institute of sciences on 20th june, 2020.
- Attended one week online Faculty development programme on “Taxonomy of softwares related to mathematical sciences ” organised by Gokaraju Rangaraju institute of Engineering and Technology during 9th – 14th June, 2020.
- Participated in one week online Faculty development programme on “Innovative Teaching pedagogy in the Technical institutions ” organised by KBT college of Engineering during 1st – 5th June, 2020.
- Participated in an International webinar on “Laplace Transforms and its applications” organised by Mallareddy institute of technology and science held on 22nd june, 2020.
- Participated in one week online Faculty development programme on “Mathematica software” organised by Santhiram Engineering college during 28th May – 2nd June, 2020.
- Participated in the National Webinar on “Mathematical Modelling and its Applications” organised by Aurora's Degree & Pg College held on 17th June, 2020.

- Participated in one week National level Faculty development programme on “Moodle Learning Management system ” organised by JNTUH college of Engineering & IIT Bombay from 10th – 15th June, 2020.
- Participated in the National webinar on “Research(Why?,What?,How?)”Organized by Department of Mathematics(H&S),Vignana Bharathi Institute of Technology, Hyderabad,held on 14th June,2020.
- Participated in the National level online quiz on “Mathematics and Aptitude” conducted by Andhra Loyola institute of engineering and technology during 19th -22nd June, 2020.
- Participated in two day National seminar on “Recent research topics in Mathematics” organised by Auxilium college Vellore on 28th -29th May, 2020.
- Participated in one week National level Faculty development programme on “scilab ” organised by JNTUH college of Engineering & IIT Bombay from 25th – 30th May, 2020.
- Participated in the National webinar on “Innovative approaches in Differential equations ”Organized by Department of Mathematics(H&S),Vignana Bharathi Institute of Technology, Hyderabad,held on 5th June,2020.
- Participated in the webinar on “Single and Two Species Population Models” conducted on 16-06-2020, organised by Department of Basic Sciences & Humanities, Vignana's Institute of Management & Technology for Women, Hyderabad.
- Participated in the National Webinar on “Applications of Numerical analysis in Mathematics” organised by Aurora's Degree & Pg College held on 29th June, 2020.
- Participated in the National Webinar on “Differential equations and applications” organised by Mallareddy institute of technology and science held on 28th June, 2020.
- Completed the National Statistics Day 2020 E-Quiz on Statistics organized by Department of Statistics, Dharmamurthi Rao Bahadur Calavala Cunnan Chetty’s Hindu College, Chennai-72, held on 29th and 30th June 2020.
- Attended two days national webinar on on “Applications of Mathematics for Engineers” organised by Bharat institute of Engineering and Technology during 4th – 5th July, 2020.
- Attended the One Week National Level FDP (online) on “Mathematical Modeling & Simulation” from 25th to 30th June, 2020, organized by Faculty of Mathematics, Department of Applied Sciences & Humanities, MVSR Engineering College, Hyderabad.

- Participated in the Two Day Online FDP on “Applications of Mathematics in Engineering” organized by Department of Mathematics & Humanities, Mahatma Gandhi Institute of Technology (MGIT), Hyderabad during 3rd and 4th July 2020.
- Completed certificate course on” Introduction to Ordinary Differential Equations” through coursera during July, 2020.
- Completed certificate course on “Matrix Algebra for Engineers” through coursera during August, 2020.
- Participated in AICTE sponsored 5-Day Online Faculty Development Program on “Examination Reforms” organized by National Institute of Technology, Mizoram from 15th to 19th February 2021.
- Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online elementary FDP on "Role of Mathematics in Future Technologies" from 12th - 16th July, 2021 at Stanley College of Engineering and Technology for Women.
- Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online elementary FDP on " Mathematical Tools and Recent Advances in Applied Mathematics (MTRAAM)" from 16th -20th August,2021 at Madan Mohan Malaviya University of Technology, Gorakhpur.
- Completed certificate course on “Basics of Machine Learning” provided by Great Learning Academy on July, 2021.
- Completed certificate course on “Statistics for Machine Learning” provided by Great Learning Academy on August, 2021.

5. Academic Contribution and Research & Consultancy:

5.1. Invited Lectures:

- Delivered a Lecture on “Mathematics for machine learning” in the virtual webinar series organized by IEEE VNR student branch CS chapter during 21st June to 3rd July 2020.
- Acted as a Resource person for 5 day national level online FDP on “Essential Mathematics for Machine Learning” organized by Department of H& S, VNRVJIET, during 27th July to 31st July, 2020.

5.2. Articles/Chapters published in Books: One book chapter accepted for publication

5.3. Books published as single author: 1

5.4. Projects Guided:

- a) UG: Nil
- b) PG: Nil

5.5. Research Interests:

- Group Theory

- Graph Theory

5.6. Ph.D students: Nil

- Enrolled:
- Submitted:
- Awarded:

5.7. Papers published in reviewed Journals:

S. No	Title of the Paper	Journal Name Vol.No. PP	ISBN/ISSN No.	National/ International
1	Tensor components and indices of faintness for magneto electric ferroic species.	IOSR Journal of Applied Physics , vol 3, issue4 (2013), pp: 01-07.)	E-ISSN: 2278-4861	National
2	Quadrupole arrangements in ironoxy borate.	International Journal of Pure and Applied Physics, vol 9,Number1(2013), pp:67-72	ISSN: 0973-1776	International
3	Tensor pairs of Langbeinite family of crystals.	Bulletin of Pure & Applied sciences, vol 32E(Math and Stat.) Issue (N0:1) 2013, pp:93-97	ISSN: 0970-6577	National
4	Magneto-Electric Polarizability Space Groups	International Journal of Applied Physics (IJAP) Vol.3, no 2 (2013) pp 71-78	ISSN: 2249-3174	International
5	Domain pairs of the ferroic species of Langbeinite family of Crystals	International Journal of Current Research and Review. Vol.5 (21) 2013 pp 92-95	ISSN: 2231-2196	International
6	Ferrotoroidal properties of Non-crystallographic point groups	Iop conference series : Materials science and Engineering ,2017 Vol(225),1	ISSN: 1757-8981	National
7	Ferrotoroidal properties of ferroic species of quasi crystals	International journal of pure and applied mathematics, Volume 118 No. 10 2018, 57-63	ISSN: 1314-3395	International
8	Toroidal Properties of Polychromatic Quasi Crystals	International Journal of Innovative Technology and Exploring Engineering (IJITEE), Volume-8 Issue-7,	ISSN: 2278-3075	International

		May, 2019		
9	Graphical approach to index and retrieve semi-standard young tableaux for a partition of N	AIP Conference Proceedings 2246, 020018 (2020); https://doi.org/10.1063/5.0014446 , Online: 28 July 2020, PP:1-7.	ISSN: 00001984	International
10	Analytical and Numerical Study of Steady flow of Thermo-viscous Fluid between two Horizontal Parallel Plates in Relative Motion	Communications in Mathematics and Applications Vol. 13, No. 5, pp. 1427–1441, 2022 DOI:10.26713/cma.v13i5.2254	ISSN 0975-8607 (online); 0976-5905 (print)	International

5.8. Papers presented at National / International Journals:

S.No	Title of the Paper	Names of the Conference/ Seminars	National/ International	Period
1	Ferrotoroidal Properties of Non-Crystallographic point Groups	International conference on Advanced Material Technologies (ICAMT)-2016	International	27 th -28 th December 2016
2	Method to find ranking & unranking for semi-standard young Tableaux.	International conference on recent inventions and innovations in mathematical sciences.	International	28 th Feb-1 st March, 2019
3	Graphical approach to index and retrieve semi-standard young tableaux for a partition of N	International Conference on Mathematical Sciences and Applications (I CMSA-2019)	International	9 th -11 th August, 2019
4	Method To Find Ranking and Unranking For Semi-Standard Young Tableaux (SSYT) For a Partition of 6	International Conference on Advances in Science, Engineering & Mathematics (ICASEM - 2020)	International	7 th - 9 th August, 2020
5	Tensor components and indices of faintness for multi-ferroic phase transitions	International Conference on Mathematical techniques and	International	24 th -26 th March, 2021

		applications (ICMTA-2021)		
6	Magneto-Electric polarizability in quasi crystals	4 th international European conference On interdisciplinary scientific researches	International	8 th -9 th August, 2021
7	Piezo-Elasticity in Quasi crystals	3 rd international conference on Mathematical, Physical and Computational Sciences.	International	27 th -28 th August, 2021

5.9. Sponsored research Projects:

S.No	Title	Agency	Period	Grant amount	Ongoing / Completed

5.10 Consultancy Projects:

S.No	Title	Agency	Period	Sanctioned Amount	Ongoing / Completed

6. Awards / Honors received:

7. Motto: