PROFILE

Dr. MOHANA RUPA SRIVALLI DRONADULA

Assistant Professor, Department of Mathematics

QUALIFICATION   **:** M.Sc., M.B.A, Ph.D.

EXPERIENCE   **: 1**4 years 6 months

OTHER EXPERIENCE:

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ResearchGate: https://www.researchgate.net/profile/Mohana-Svd
ORCID: https://orcid.org/0000-0001-5495-8482
Google Scholar: https://scholar.google.com/citations?user=wy4pzmwAAAAJ&hl=en&authuser=1

Academic Profile

Qualification	Board/University	Academic Year	Percentage
Ph.D.	**Krishna University**	**July 2022**	**-**
MBA(Distance)	Acharya Nagarjuna University	April 2014	**67%**
M.Sc. Mathematics	**P.B. Siddhartha college of Arts & Science, Vijayawada**	**April 2010**	**83%**
B.Sc. MSCS	**SRR & CVR Government Degree College, Vijayawada**	**April 2008**	**72%**
Intermediate MPC	**Maris Stella College, Vijayawada**	**March 2005**	**77%**
AISLC	**Atkinson High School, Vijayawada.**	**March 2003**	**77%**

Achievements:

- Acted as **Coordinator** for One Week AICTE Sponsored ATAL FDP on "Implementing Cybersecurity and IoT in AI: Recent Trends" from 9th- 14th September, 2024

- Mentored Students in Projects using a mathematical software **OCTAVE** during long term Internships.

- Received **Doctorate Degree** for the thesis on "On Bipolar Valued Fuzzy d-Algebras" from Krishna
- University in July, 2022.

- Under CCE, Andhra Pradesh, got selected as **LMS Content Generator and Presenter** and contributed content under four quadrants for four topics in Abstract Algebra.

- Completed NPTEL Course in "Introduction to R Software" with 88%

- Completed NPTEL Course in "Fuzzy Sets and Logic, Systems & Applications" with 91%.

- Completed **MATLAB ONRAMP** Online Course on 27-8-2022.

- Completed a Coursera Course **"Introduction to Calculus"** from the University of Sydney on 28-5-2020
- Completed a Coursera Course **"Academic Literacy"** from Moscow Institute of Physics and Technology on 7-6-2020
- Completed a Coursera Course **"Japanese for Beginners 1"** from Saint Petersburg State University on 10-7-2020
- Completed an online Google Digital course on **"Understanding basics of Code"** on 29-6-2020.
- Completed a Coursera Course **"Tricky American English Pronunciation"** from University of California, Irvine on 19-7-2020

Subjects Handled:

- Differential Equations
- Solid Geometry
- Abstract Algebra
- Real Analysis
- Numerical Analysis
- Discrete Mathematics
- Ring Theory
- Linear Algebra
- Vector Calculus
- Integral Transforms with Applications
- Business Mathematics
- Analytical Skills.
- Quantitative Aptitude
- Concepts of Arithmetic
- Basic Principles of Mathematics
- Reasoning
- Graph Theory
- Introduction to R Software

Other Experience: Academic Counselor for M.Sc. Mathematics,

Study Centre, Dr. B.R. Ambedkar Open University SRR & CVR Govt. Degree

College, Vijayawada from 2015-2022.

Publications:

1. Mathematical Approaches in Botany: From Plant Growth models to Genetic Algorithms, International Journal of All Research Education and Scientific Methods, ISSN: 2455-6211, Volume 12, Issue 11, November-2024, (UGC Approved Journal)

2. Homomorphism on Bipolar Fuzzy d-Algebra, AIP Conference Proceedings 2707,020041 (2023); https://doi.org/10.1063/5.0143365. (Scopus & part of Web of Science) Impact Factor: 1.6

3. Homomorphism on Bipolar Anti Fuzzy d-ideals of d-algebra, AIP Conference Proceedings 375,020026 (2021); https://doi.org/10.1063/5.0066706. (Scopus & part of Web of Science) Impact Factor: 1.6

4. Bipolar fuzzy Translation, Multiplication, Extension of Bipolar anti fuzzy d- ideals of d algebra, Journal of Information and Computational Science, 2021, 11(6), pp.748-755. (UGC Care Journal)

5. Bipolar anti fuzzy d-ideals of d-algebra, GIS Science Journal, 2021, 8(1), pp. 762– 768.

6. Normal Bipolar fuzzy d-ideals of d-algebra, Gedrag Organisatie Review, 2020, 33(04), pp.587–595. (Web of Science)

7. Bipolar Valued Fuzzy d-Ideals of d-algebra, Journal of Information and Computational Science, 2020, 10(9), pp.1–7. (UGC Care Journal)

8. Bipolar Valued Fuzzy d-Algebra, Advances in Mathematics: Scientific Journal, 2020, 9(9), pp.6799-6808. (Scopus)

9. An Application of Neutrosophic Logic In Making Best Choice, Sambodhi

    ISSN: 2249-6661, Vol-43, No.-02 November-December (2020) (UGC Care Journal)

10. On Soft Matrices and their application in Decision Making in Mathematical Sciences International Research Journal/ Vol 5/ Spl Issue/Pages1-5, ISSN 2278-8697.

11. A Great Woman Mathematician Sofia Kovalevskaya in Proceedings of the National Seminar on "Women in Mathematics with Special Reference to Lilavathi", ISBN 978-93-80693-46-0

12. Group Rings- Preparatory Concepts in IJSRR, ISSN 2279-543X, Volume 7, Issue 10, 2018, Pages 215-220.

13. A Note on Clean Rings and Semiclean Rings in Journal of Applied Science and Computations, Vol VI, Issue V, May – 2019.

Positions Held:

- ❖ Coordinator IQAC, September 2023- till date
- ❖ Member- Time Table Committee,
- ❖ Member-NIRF Committee.
- ❖ NAAC- V Criterion Committee
- ❖ Member- Student union Committee, NSS Committee, Personality Development Committee
- ❖ Member- Womens' Cell

Papers Presented **:** 10

Seminars/Guest Lectures Participated **:** 24

Workshop/FDP/Training Programs Participated **:** 34

Paper Publications-13

Book Chapter-1

Certificate Courses- 7

WORKSHOPS/FDP/SEMINARS/CONFERENCES Organised / Attended

- Organised Guest Lecture on Modern Approach to Mathematics: Numerical Methods with Uncertainity Analysis by Dr. Sukanta Naik, Assistant Professor Senior Grade 2, Department of Mathematics, School of Advanced Sciences (SAS), Coordinator, Center of Excellence, AI & Robotics, VIT-AP University, Amaravati on 21-8-2024.

- Organised Guest Lecture on "Careers in the Field of Mathematics" by Ms. C.Savithri, Rtd. HoD, Little Flower Junior College, Hyderabad.

- Participated in a 2-day National Seminar on "Mathematical Methods Models & amp; Applications in Multidisciplinary Research and Aquaculture" on 28.06.2024 and 29.6.2024

- Participated in SERB Sponsored 5 day International Conference on "Advanced Trends in Computational Engineering Mathematics" from 9th to 13th July, 2024 held at KLEF, Vaddeswaram.

- Presented a paper on" Application of Plithogenic sets in Data Mining" in the International Conference on "Advanced Trends in Computational Engineering Mathematics" from 9th to

13th July, 2024 held at KLEF, Vaddeswaram.

- Completed a course in "Biostatistics" by MTTF from 21.08.2024 to 30.08.2024.
- Attended a National Seminar on "Generative Tools to enhance teaching and learning in Higher Education" on 23-10-2024 by IQAC Cluster, Pune, India.
- Published Book chapter on the topic "Data Science in Cybersecurity" in a book with ISBN: 978-93-93622-48-4 on 1-11-2024
- Attended a National Seminar on "Generative AI" on 13-11-2024 organised by IOT Academy.
- Attended a National Online Workshop on Statistical Data Analysis Using R & amp; Python from NOV 24 – 30, 2024 organised by Amiruddaula Islamia Degree College, Lucknow.
- Conducted one day workshop on "Real Life Applications of Trigonometry using Laboratory Methods" for all First B.Sc.(Honours) students by Dr.T.S.V.S.Suryanarayana Murthy , M.Sc. ,M.Ed., M.Phil., Ph.D.,School Assistant in Z.P.P.Boys High School,Amalapuram, East Godavari Dist. ,A.P.
- In association with IQAC, Conducted a Faculty Development Program on "Empowering Faculty: Projects, Research, AI & Innovation" by Mr. Raushan KumarSingh, C.E.O, Fulectronix Technologies, TBIF, IIT Ropar, Punjab and Dr.B.Annapurna, Professor Dept. Computer Science, KLU, Vijayawada.
- Organised Guest lecture on Mathematics in Architecture by Dr. R. Chudamani, Senior Asst. Professor, PVP Siddhartha Institute of Technology, Kanuru.
- Organised Guest Lecture On Career Orientation by Syed Basha, M.Com., MBA, M.Sc(IT) Director & CEO, Right Computers & Wright Tech Software Solutions pvt. ltd.
- Organised Guest Lecture on Applications of Mathematics in various Sectors by V.V.K.Srinivas Kumar, Assistant Professor, IIT Delhi.
- Attended Online Three day International Workshop on "Document Preparation using LATEX" By A2Z EduLearningHub LLP from 5-7-2022 to 7-7-2022.
- Attended Self-Paced online Workshop on "Mendely Training" organized by I2OR Network on 10-7-2022
- Attended Online Four day International Workshop on Digital Image Processing using SCILAB by A2Z EduLearningHub LLP from 10-2-2023 to 13-2-2023
- Attended National Webinar on "Usage of mathematical tools in MATLAB" organized by Department of Mathematics, Krishna University on 06-08-2021.

- Attended Five Day International Workshop on " Signal Processing Using Machine Learning: Applications And Hands-On" organized by VIT, AP from 28-8-2021 to 1-9-2021

- Attended One Week Virtual International Lecture Workshop on " New Advances In Mathematical And Computational Sciences" organized by Department Of Applied Mathematics, Yogi Vemana Uiversity, Kadapa from 13-9-2021 to 18-9-2021.

- Attended Five-Day Online Short Term Training Program on MATLAB based Teaching-Learning in Mathematics, Science & Engineering organized by the Department of Electronics& Engineering, Ramrao Adik Institute of Technology, Nerul, Navi Mumbai in collaboration with DesignTech Systems Pvt. Ltd., Mumbai from 18-5-2020 to 22-5-2020.

- Attended Two-Day FDP on APPLICATIONS OF G-SUITE EDUCATION (Google website, Google Meet - Hands on session) organized by Department of Computer Science, Sri Durga Malleswara Siddhartha Mahila Kalasala, Vijayawada in association with Hyper Techno Solutions from 25-5-2020& 26-5-2020

- Attended One Week International FDP on Mathematical Modeling in Multidisciplinary Domain organised by Bannari Amman Institute of Technology, Coimbatore, Tamilnadu from 1-6-2020 to 7-6-2020.

- Attended Five- Day FDP on Online Course Content Preparation and Maintaining using G-Suite Applications organized by Department of Computer Science, SDMSMK in association with ARETE IT Services from 2-6-2020 to 6-6-2020

- Attended One day FDP on The Emerging Online Education, Post COVID 19 – Role of Teachers and Students organized by (IQAC), Sri Durga Malleswara Siddhartha Mahila Kalasala, Vijayawada on 19-06-2020

- Attended One Week Online Faculty Development Program on Mathematica Software- Hands on Experience: Tools & Techniques for Next Generation organized by Santhiram Engineering College in association with WOLFRAM Mathematics-AARYAMAN GEO Info, Bangalore from 28-5-2020 to 2-6-2020.

- Attended Five- day Faculty Development Program on ICT based Teaching and Learning Process organized by RCP Roorkee on 1-7-2020 to 5-7-2020.

- Attended 5 Day Faculty Development Programme on New Knowledge, Pedagogical Methods: New Frontiers in Real Analysis, Abstract Algebra, Differential Equations and Calculus organised by Commisionerate of Collegiate Education, AP, Vijayawada from 1-7-2020 to 5-7-2020.

- Attended One week virtual FDP on "Research Design, Ethics& Metrics" organized by KBN

College, Vijayawada from 18-10-2021 to 23-10-2021.

- Attended Two-Day International FDP on "Recent Trends in Mathematical Statistical Techniques" organized by School of Mathematics and Statistics, MIT- World Peace University 22-10-2021 to 23-10-2021

- Attended One week FDP "Software tools for Mathematical Education" organized by Bannari Amman Institute of Technology from 30-8-2021 to 5-9-2021.

- Attended MATLAB Online FDP organized by R&D, Krishna University on 27-8-2022

- Attended One Week FDP on "Enhancing the Academic and Intellectual Environment in Higher Education Institutes" organized by Krishna University 11-7-2022 to 16-7-2022

- Attended One Week FDP "Research Methodology and Data Analysis in Business Management" Department of Commerce organized by Krishna University from 25-8-2022 to 1-9-2022