Dr. MUNDLAMURI VENKATA RAO

Designation	**:** Senior Assistant Professor
E-Mail ID	**:** mvr@vrsiddhartha.ac.in, mundlamuri@gmail.com.
Contact at	**:** S&H-II/103, Department of Mathematics

Siddhartha Academy of higher Education

Kanuru, Vijayawada, Andhra Pradesh - 520007.

Education

Ph. D (Computer Science and Engineering)
2024, *Lincoln University College, Shelangor, Malaysia.*

M.Tech (Computer Science and Engineering)
2011, Jawaharlal Nehru Technological University, Kakinada.

M.Sc (Mathematics)
1995, Dr.B.A.Marathwada Unviversity, Aurangabad, Maharashatra.

Experience

S.NO.	Period	Designation	Institution/Organization	Key Responsibilities
1	1/3/2002 to till date	Assistant Professor	Velagapudi Ramakrishna School of Engineering	Curriculam design, Acadamic leadership and warden for old boys hostel
2	15/7/1996 to 28/2/2002	Lecturer	SBL&AM Junior College	
			Total Service (in Years)	

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Research Interests

Broad Area of Research Interest:

- Cryptography
- Machine learning.

Courses Taught

M.Tech (CSE/CST): Mathematical Foundation for Computer Science

M.Tech (GTE): Computational Methods in Geotechnical Engineering

MCA: **1**. Theory of Computation

2. Discrete Mathematics

B.Tech: 1. Discrete Mathematical Structures
2. Laplace Transforms and Vector Calculus
3. Complex Analysis and Numerical Methods
4. Matrices and Differential Equations
5. Linear Algebra for Machine Learning.
6. Probability and Statistics for data science.

Research Profile

Publications

1. **Comparative Research Based on Internet Worms**

   Mundlamuri Venkata Rao, Divya Midhunchakkaravarthy, Sujatha Dandu

   Proceedings of the International Conference on Computational Innovations and Emerging Trends (ICCIET- 2024), pages 969-976.

2. **Propagation of Computer Worms—A Study**

   Mundlamuri Venkata Rao, Divya Midhunchakkaravarthy, and Sujatha Dandu

   Soft Computing and Signal Processing, Proceedings of 6th ICSCSP 2023, Volume 2, pages 629-639.

3. **Joint detection and classification of signature and NetFlow based internet worms using MBGWO-based hybrid LSTM.**

Mundlamuri VenkataRao, Divya Midhunchakkaravarthy, Sujatha Dandu,

Journal of Computer Virology and Hacking Techniques, part of Springer Nature 2022

4. **Deep Learning CNN Framework for Detection and Classification of Internet Worms**

   Mundlamuri Venkata Rao.,Divya Midhunchakkravarthy.,and Sujata Dandu

   Journal of Interconnection Networks, Volume 22, 2144024, Year 2022, Pages 1-19

5. **Regular Ternary Partial Semirings**

   Siva Prasad Korraati., Prabhakara Rao Yadlapalli., Venkata Rao Mundlamuri
   South East Asian Bulletin of Mathematics, Volume 46, Year 2022, Pages 271-281

6. **Ternary Partial Semi fields**

   Siva Prasad Korraati., Prabhakara Rao Yadlapalli., Venkata Rao Mundlamuri

   AIP Conference Proceedings International Conference on Mathematical Sciences

   And Applications (ICMSA-2019), Volume 2246, Year 2020.

7. **Image Classification Using Machine Learning Techniques**

   M. Prasanna Lakshmi, M. Venkata Rao, and V. Esther Jyothi
   International Journal of Advanced Research (IJAR), **Year 2019.**

8. **Keyword Search on Confidential Data in A Cloud Environment**
   M. Prasanna Lakshmi, V. Esther Jyothi, M. Venkata Rao
   International Journal of Computer Sciences and Engineering Open Access**, Year 2019.**

9. **Detection Of Sensors in Android Applications**
   M. Prasanna Lakshmi, V. Esther Jyothi, M. Venkata Rao
   JETIR**, Year 2019.**

Administrative Roles

S.No.	Title	Institution	Duration	Responsibilities
1	Assistant Professor	VRSSOE	Since, 2002	As assigned by the higher authorities.
2.	Warden	VRSSOE	Since 2017	Warden for old boys hostel

Professional Development Activities - Participations

Certificate Courses:

1. Participated and completed, Certificate Course on **Foundations of Efficient Software Development,** Organized by Department of CSE, **IIT HYDERABAD**, during 17.12.2011-24.12.2011.

Faculty Development Programmes:

1. Participated in 5- Day Online FDP "SEM Using SMART PLS and AI: A Hands-on Approach" conducted by Siva Sivani Institute of Management (SSIM) during April 21-25, 2025.

2. Participated in Two-week FDP on "PROBLEM SOLVING WITH PYTHON**"** conducted by Dhyanhitha Educational Society, Hyderabad during **12-06-2024 to 02-07-2024.**

3. Participated in 5-Day FDP of "WORKSHOP ON FACULTY DEVELOPMENT PROGRAMME" organized by Teaching Learning Cell of IIT-BHU & Teaching Learning Centre of IITM at IIT-BHU, VARANASI, during **December 12-16, 2016.**

4. Participated in Two-week FDP on "NETWORK SECURITY AND CYBER FORENSICS**"** organized by department of CSE in VRSEC, Vijayawada during **April 13-24, 2015.**

Short Term Courses/Programmes:

1. Participated in the QIP STC on "Effective Teaching Learning Strategies in Technical Education" conducted by VRSEC Vijayawada in association with **NITTT&R Chennai** during **June 22-26, 2020.**

2. Participated in the QIP STC on "Question Paper Setting and Student Evaluation" conducted by VRSEC Vijayawada in association with **NITTT&R Chennai** during **April 16-18, 2018.**

3. Participated in AICTE STC on "Nonlinear Partial Differential Equations: Theory and Numerics" organized by **Department of Mathematics of IIT Madras** during **January 22-27, 2018.**

4. Participated in GIAN STC on "Differential Geometry and PDE's" organized by department of mathematics **IIT Kanpur** during **December 04-08, 2017**

5. Participated in QIP-STC on "Advanced Numerical and Analytical Methods for Engineers and Scientists (NAMES)" organized by department of Mathematical Sciences, **IIT(BHU), VARANASI during January 12-18, 2017.**

6. Participated in an AICTE Sponsored short term course on **"Bayesian and Classical Statistics"** held at **IIT Madras,** Chennai during **September 22-26, 2015.**

7. Participated in the Short-Term Training Programme on **Advanced Computational Mechanics**

(STTP on ACM) organized by Department of Applied Mathematics **DIAT(DU), PUNE** during **July 14-18, 2014.**

8. Participated in QIP-STC on **Recent Advances in Computational Sciences with Application**, Organized by Department of Mathematics, **IIT KHARAGPUR** During **November 22-27,2010**.

9. Participated in QIP-STC on **Logic and Applications of Logic Part II,** Organized by Department of HSS, **IIT KHARAGPUR**, During **12.01.2009-16.01.2009**

10. Participated in QIP-STC on **Logic and Applications of Logic,** Organized by Department of HSS, **IIT KHARAGPUR**, During **08.10.2007-12.10.2007**

Workshops (5 Day or more):

1. Participated and completed a 5 Day workshop on Data Science "Predict if the client will subscribe to a term deposit based on the analysis of the marketing campaigns" conducted by **GREYATOM during May 27,2020 to June 2, 2020.**

2. Participated in the 5-day Workshop on **"Business Intelligence & Information Security"** organized by Department of Information Technology, V R Siddhartha Engineering College Vijayawada, during 22**-26, July 2014.**

3. Participated in Two-week **ISTE Workshop** on **Introduction to Research Methodologies** Conducted by **IIT Bombay** Under the National mission on Education through ICT (MHRD, Govt. of India) **25th June to 4th July, 2012** at IIIT Hyderabad**.**

International Seminars/Conferences:

1. **Presented** a **Guest lecture** on "Formation on Andhra State, Andhra Pradesh and Telangana" at Vikasa Vidya Vanam, Poranki on November **28, 2014.**

2. Participated in an **International** (Conference) **meet** on **Quantum Correlations and logic, Language and set theory** organized by **IIT Jodhpur** during **9.10.2013 to 14.10.2013.**

3. Participated in a Two-Day International Seminar on **Artificial Intelligence & Applications** (AIA-2009) organized by Departments of CSE & IT of **GMR Institute of Technology, Rajam** during **December 10-11, 2009.**

Appreciations:

1. I was awarded a **certificate for writing a Theme Oriented Song** on **Velagapudi Ramakrishna Siddhartha Engineering College**

Professional Development Activities-Organized

1. As a **Coordinator**, a one-day **International Seminar on Quantum Computing - The Changing Crypto Game, organized on 31-12-2021**.

2. As a Coordinator, a one – day **National Workshop on Innovative Teaching Strategies in Engineering Education, organized on March 24, 2017.**

3. As a **Coordinator**, a Two-day National Seminar on **Recent Advances in Mathematics and Computer Science-Applications in Technology, Cryptology, Quality and Business** (RAM-2014) on **25th and 26th April, 2014**, sponsored byTEQIP-II (SC1.2)

4. As a **Coordinator**, a One-day National Workshop on **Mathematical Logic and Applications** (MAA-2010) was organized on **3rd April. 2010**, sponsored by Siddhartha Academy of General and Technical Education.

Events Celebrated:

1. As **Coordinator National Mathematics Day (Ramanujan's Birthday)** was celebrated every year.

Professional Bodies Membership Details

LM No.1140	Andhra Pradesh Society for Mathematical Sciences

(MUNDLAMURI VENKATA RAO)