

# R.Sandhya



**Designation** : Assistant Professor  
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**Contact at** : Department of Mathematics,  
Velagapudi Ramakrishna Siddhartha Engineering College,  
Kanuru, Vijayawada, Andhra Pradesh 520007.

## Education

### (Ph. D) (Mathematics)

2024-till date, KLEF, Guntur

### M.Sc (Mathematics)

2009, Acharya Nagarjuna University, Guntur

### B.Sc (M.P.C)

2007, K.B.N College, Vijayawada.

## Experience

Period	Designation	Institution / Organization	Key Responsibilities
2024-till date	Assistant Professor	Velagapudi Ramakrishna Siddhartha School of Engineering	Teaching, Research publications, Paper presentations, NBA/NAAC coordination, conducting remedial, Bridge classes
2009-2024	Assistant Professor	Velagapudi Ramakrishna Siddhartha Engineering College	

## Research Interests

### Broad Area of Research :

Fluid Dynamics

## Honors and Awards

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## Courses Taught

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S.No	Course Name	Level (UG/PG)
1	Linear Algebra, Series and Calculus	UG
2	Differential Equations and Numerical Methods	UG
3	Linear Algebra and Differential Calculus	UG
4	Mathematics for Data Science	UG
5	Matrices and Differential Calculus	UG
6	Laplace Transforms and Integral Calculu	UG
7	Complex analysis and Numerical methods	UG
8	Discrete Mathematics	UG
9	Probability and Statistics for Engineers	UG

## Research Profile

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### Publications

The recent publications and research contributions can be viewed from the following URLs

Google Scholar	<a href="https://scholar.google.com/citations?user=K41xR7cAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=K41xR7cAAAAJ&amp;hl=en</a>
Scopus	<a href="https://www.scopus.com/authid/detail.uri?authorId=58793263700">https://www.scopus.com/authid/detail.uri?authorId=58793263700</a>
ORCID	<a href="https://orcid.org/0000-0002-2406-9462">https://orcid.org/0000-0002-2406-9462</a>

### Administrative Roles

S.No.	Role	Institution	Duration	Responsibilities
1	ISO Coordinator (Mathematics)	VRSEC	2014-Present	Data Collection and Documentations for the audit

## Certifications/MOOC Courses Completed

S.No.	Title	Platform	Duration	Year
1.	Matrix Methods	COURSERA	1WEEK	2020
2.	Vector Calculus for Engineers	COURSERA	3 WEEKS	2020
3.	Matrix Algebra for Engineers	COURSERA	2 WEEKS	2020

## Consultancy / Industry Projects

Completed	00
On-going	00
Applied	00

## Patents

S.No	Title	Status	Application No.	Year
1.	Enhanced Accuracy and Efficiency in real systems through fixed point analysis Techniques	Published	202441033729 A	2024
2.	Integrated Computational Framework for Solving MHD Equations via Numerical and Differential Methods.	Published	202441088826 A	2024
3.	AI-Powered Solvers for MHD and Fluid Dynamics Problems	Published	202541057232 A	2025
4.	Real-Time Optimization Algorithms for MHD Computational Models	Published	202541062144 A	2025

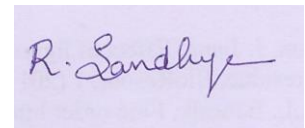
## Professional Development Activities - Participations

Faculty Development and Training Programmes (at least 5 Days)	15
International / National Level Seminars	6/4
International / National Level Conferences	3/3
Workshops	14

<b>Instructor Led / Self-Paced Courses</b>	
<b>Webinars</b>	10

## Professional Bodies Membership Details

L/1325	Indian Society of Theoretical and Applied Mechanics (ISTAM)
173199	International Association of Engineers (IAENG)
LM1180	Andhra Pradesh Society for Mathematical Sciences (APSMS)



**(R.SANDHYA)**

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