

CURRICULUM VITAE



Dr. BHANU LAKSHMI KONDRU

Associate Professor

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Google Scholar

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Blog ID:

<https://bhanu42.blogspot.com/?m=1>

Professional Summary

I am a passionate and dedicated Mathematics teacher with 16 years of experience. I enjoy helping students do well in their studies and grow in their careers. I use technology in the classroom to make lessons more interesting and easier to understand. I also use creative and engaging methods to help students learn difficult math topics in a fun and simple way.

Work Experience (Total Experience: 15+ Years)

- **Associate Professor** (Jan 2025 to Present)
Freshman Engineering Department, Lakireddy Bali Reddy College of Engineering, Mylavaram, Krishna Dt., Andhra Pradesh.
- **Assistant Professor** (Nov 2010 to Dec 2024)
Freshman Engineering Department, Lakireddy Bali Reddy College of Engineering, Mylavaram, Krishna Dt., Andhra Pradesh.
- **Lecturer** (Sep 2007 to September 2010)
SDA Junior college, NUZVID.

Educational Qualifications

- 2021 **Ph. D. in Mathematics**, Acharya Nagarjuna University, Andhra Pradesh.
(Thesis Title: Nanofluid Flow with Bioconvection and its Applications)
- 2011 **M.Phil.**, Applied Mathematics, Acharya Nagarjuna University, Andhra Pradesh.
- 2007 **M.Sc.**, Applied Mathematics, Acharya Nagarjuna University, Andhra Pradesh.
- 2005 **B.Sc.** (Mathematics, Physics, Chemistry)
Acharya Nagarjuna University, Andhra Pradesh.

Significant Achievements: •

- **H-index, Citations Score** :05, 87
- **List of Publications in Journals** : 15
- **Book** : 01
- **Book Chapters/Monographs** : 02
- **Google scholar Citations** :372
- **H-index** : 09
- **i10 index** :08

Research Activities

Scoups link:

<https://www.scopus.com/feedback/author/reviewAuthorProfile.uri?authorIds=57226748347>

PUBLICATIONS:

1. **K. Bhanu Lakshmi** Kotha Gangadhar, and K. Dasaradha Ramaiah. Optimization of chemical and radiation reaction effects on magnetized bioconvective flow in 3D Sisko fluid with gyrotactic microorganisms using surface response methodology **International Journal of Modern Physics B** Vol. 39, No. 23, 2550218 (2025) <https://doi.org/10.1142/S0217979225502182>
(Q3)-SCI-2025
2. **Bhanu Lakshmi, K.**, Gangadhar, K., Rupa Lavanya, M., ...Wakif, A. Enhanced Thermal Transport in Magnetized Cu–Fe₃O₄/Water Hybrid Nanofluid on a Curved Surface with Improved Heat Absorption Coefficient. **Nano** <https://doi.org/10.1142/S1793292024501406>
(Q3-SCI)-2025
3. **Lakshmi, K. B.**, Gangadhar, K., Vinodh Kumar, P., Dinarvand, S., Naga Bhargavi, D., & Venkata Subba Rao, M. (2025). A numerical approach to Cattaneo–Christov heat flux in MHD Oldroyd-B fluids with tri-nanoparticle suspension. **International Journal of Ambient Energy**, 46(1).
<https://www.scopus.com/inward/record.url?eid=2-s2.0-105006569842&partnerID=MN8TOARS>

(Q2)-Scopus-2025

4. Sarma, S.V.K., Gangadhar, K., **Lakshmi, K.B.**, Dinarvand, S. Memory effects on MHD Williamson fluid over a stretched lubricated surface with microbes. **Modern Physics Letters B** 2025 39:24. <https://doi.org/10.1142/S0217984925501131>

(Q3)-SCI-2025

5. Gangadhar, **K.**, **Bhanu Lakshmi, K.**, Kannan, T., & Chamkha, A. J. (2022). Bioconvective magnetized oldroyd-B nanofluid flow in the presence of Joule heating with gyrotactic microorganisms. **Waves in Random and Complex Media**, 35(2), 3257–3277. <https://doi.org/10.1080/17455030.2022.2050441>

(Q2)-WOS-2022

6. Gangadhar, **K.**, **Bhanu Lakshmi, K.**, El-Sapa, S., Venkata Subba Rao, M., & Chamkha, A. J. (2022). Thermal energy transport of radioactive nanofluid flow submerged with microorganisms with zero mass flux condition. **Waves in Random and Complex Media**, 35(3), 5779–5801. <http://dx.doi.org/10.1080/17455030.2022.2072536>

(Q2)-WOS-2022

7. Gangadhar, K., **Lakshmi, K.B.**, Kannan, T. et al. Stefan blowing on chemically reactive nano-fluid flow containing gyrotactic microorganisms with leading edge accretion (or) ablation and thermal radiation. **Indian J Phys** 96, 2827–2840 (2022). <https://doi.org/10.1007/s12648-021-02179-xF>.

(Q3)-SCI-2022

8. Gangadhar, K., **Bhanu Lakshmi, K.**, Kannan, T., ...Chamkha, A.J. Entropy Generation in Magnetized Bioconvective Nanofluid Flow Along a Vertical Cylinder with Gyrotactic Microorganisms **Journal of Nanofluids** <https://doi.org/10.1166/jon.2020.1758>

(Q3)-ESCI-2020

9. Gangadhar, K., **Lakshmi, K.B.** & Kannan, T. Thermal Transport of Magnetized Cu – Fe₃O₄/water Hybrid Nanofluid over a Curved Surface. **Int. J. Appl. Comput. Math** 7, 191 (2021). <https://doi.org/10.1007/s40819-021-01125-z>. **(Q3)-SCI-2021**

10. Gangadhar K, Mary Victoria E, **Bhanu Lakshmi K**, Chamkha AJ. Nonlinear radiation phenomena for Casson–Maxwell nanoliquid flow with chemical reactions. **Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering**. 2022;237(6):2123-2133.

<https://doi.org/10.1177/09544089221132356> **(Q2)-SCI-2022**

11. Gangadhar, K., Prameela, M., **Lakshmi, K. B.**, & Chamkha, A. J. (2022). Electrical magneto hydrodynamic Jeffrey fluid flow with thermal radiation through stretched cylinder. **Waves in Random and Complex Media**, 1–22. <http://dx.doi.org/10.1080/17455030.2022.2099598>.

(Q2)-WOS-2022

12. Rao, K., **Lakshmi, K.**, & Rao, N. (2014). Common fixed and coincidence point theorems for maps in Menger space with Hadzic type t - norm. **Hacettepe Journal of Mathematics and Statistics**, 43(6), 963-969. <https://izlik.org/JA53JF26JU->

(Q2)Scopus-2014

13. K. P. R. Rao, **K. Bhanu Lakshmi**, Zead Mustafa z and V. C. C. Raju. Fixed and Related Fixed Point Theorems for Three Maps in G-Metric Spaces; **Journal of Advanced Studies in Topology**. <https://doi.org/10.20454/jast.2012.340>-
Research gate, google scholar-2012
14. K. P. R. Rao, **K. Bhanu Lakshmi**, V. C. C. Raju. A Unique Common Fixed Point Theorem For Three Mappings in G –Cone metric spaces. **The Journal of Mathematics and Computer Science**. <https://dx.doi.org/10.22436/jmcs.04.04.08>
WOS-2012
15. K. P. R. Rao; **K. B. Lakshmi**; Z. Mustafab. A Unique Common Fixed Point Theorem for Six Maps in G-metric Spaces. Int. J. Nonlinear Anal. Appl. 3. [WOS:000219047900003](https://doi.org/10.1515/ijna.2012.0003)
WOS-2012

Specialization Areas and Subjects Taught

Applied Mathematics, Engineering Mathematics, Differential equations, Partial differential equations, Numerical methods, Applications of DE, Laplace transforms, Fourier transforms, Z-Transforms, Fourier Series, Linear algebra, Vector differentiation, vector integration, Complex Variables, Function of Several Variables, Testing of Hypothesis, Estimation theory, Probability and Distributions, Regression Analysis, Statistical Methods for Data Science, Correlation, Algebra.

Details of Workshops / Training Programs / Online Courses		
No. of FDPs, Workshops, Webinars, etc. Organized	03	
No. of FDPs, Workshops, Webinars, etc. Attended	30+	
Certifications completed	Online Certifications	27
	Global Certifications	01

Certificate Courses

Online Certification Courses from NPTEL

1. Got certified with **Elite** from **NPTEL online certification course** (12 Weeks) on “**Differential Equations for Engineers**” conducted by **IIT Madras** in the year 2017.
2. Got **NPTEL online certification course** (04 Weeks) on “**Introduction to probability and statistics**” conducted by **IIT Madras** in the year 2018.
3. Got certified with **Elite** from **NPTEL online certification course** (12 Weeks) on “**Integralequations, calculus of variations and its applications**” conducted by **IIT Madras** in the year 2018.
4. Got certified with **Elite+Sliver** from **NPTEL online certification course** (12 Weeks) on “**Mathematical methods and its applications**” conducted by **IIT Madras** in the year 2019.
5. Got certified with **Elite+Sliver** from **NPTEL online certification course** (8 Weeks) on “**Calculus of one real variable**” conducted by **IIT Kanpur** in the year 2019.

6. Got certified from **NPTEL online certification course** (12 Weeks) on **“Transform calculus and its applications in Differential equations”** conducted by **IIT kharagpur** in the year 2019.
7. Got certified with **Elite+Sliver** from **NPTEL online certification course** (04 Weeks) on **“Patent Drafting for Beginners”** conducted by **IIT Madras** in the year 2025..

Online Certification Courses from COURSERA

S. No.	Name of Faculty	Name of the Course	Institute	Duration
1	K.Bhanu Lakshmi	Introduction to Ordinary Differential Equations	Korea Advanced Institute of Science and Technology (KAIST)	9 Weeks
2	K.Bhanu Lakshmi	Vector Calculus for Engineers	The Hong Kong University of Science and Technology	4 Weeks
3	K.Bhanu Lakshmi	Matrix Algebra for Engineers	The Hong Kong University of Science and Technology	4 Weeks
4	K.Bhanu Lakshmi	Differential Equations for Engineers	The Hong Kong University of Science and Technology	6 Weeks
5	K.Bhanu Lakshmi	Introduction to Calculus	The University of Sydney	5 Weeks
6	K.Bhanu Lakshmi	Matrix Methods	University of Minnesota	5 Weeks
7	K.Bhanu Lakshmi	Mathematics for Machine Learning: Linear Algebra	Imperial College London	5 Weeks
8	K.Bhanu Lakshmi	Probability and Statistics: Top or not top?	University of London	6 Weeks
9	K.Bhanu Lakshmi	The Teacher's Social and Emotional Learning	University of Colorado Boulder	5 Weeks
10	K.Bhanu Lakshmi	Mathematical Foundations for Cryptography	University of Colorado System	4 Weeks
11	K.Bhanu Lakshmi	Classical Cryptosystems and Core Concepts	University of Colorado System	3 Weeks
12	K.Bhanu Lakshmi	How Things Work: An Introduction to Physics	University of Virginia	8 Weeks
13	K.Bhanu Lakshmi	Introduction to the Arctic: Climate	University of Alberta	4 Weeks
14	K.Bhanu Lakshmi	AI for Everything	deeplearning.ai, Stanford University	4 Weeks

15	K.Bhanu Lakshmi	Continuous Integration	University of California, Davis	4 Weeks
16	K.Bhanu Lakshmi	The Evolving Universe	California Institute of Technology, CAL	10 Weeks
17	K.Bhanu Lakshmi	Time Value of Money	University of Michigan	4 Weeks
18	K.Bhanu Lakshmi	Six Sigma Tools for Analyze	University System of Georgia	4 Weeks
19	K.Bhanu Lakshmi	Intro to Acoustics (Part 1)	Korea Advanced Institute of Science and Technology (KAIST)	5 Weeks
20	K.Bhanu Lakshmi	The Sun and the Total Eclipse of August 2017	University of Colorado System	5 Weeks
21	K.Bhanu Lakshmi	Fundamentals of fluid power	University of Minnesota	6 weeks

➤ Successfully completed the Massive Open Online Course (MOOC) on “Learn Moodle 3.7 Basics” conducted by Moodle HQ in July 2019.

FDP's / WORKSHOP's / SEMINARS attended

S.No	Name of the faculty	Name of the event	Title of the event	Name of Institution	Duration with dates
1.	K.Bhanu Lakshmi	FDP	Recent Advances in Fluid Mechanics	VIT,(CHENNAI)	5 days 6 th to 10 th April-2026
2.	K.Bhanu Lakshmi	FDP	Quantum Computing	Black Buck Education	12 days 1 st to 14 th August- 2025
3.	K.Bhanu Lakshmi	FDP	Advanced Research in Fluid Mechanics Online Faculty Development Programme	VIT,(CHENNAI)	5 days 1 st to 5 th April-2024
4.	K.Bhanu Lakshmi	FDP	Mathematica software	Santhiram Engineering college (Nandyal)	One week (28/05/2020 to 02/06/2020)
5.	K.Bhanu Lakshmi	FDP	Integral equations, calculus of variations and its applications	IIT Madras	12 Weeks (2018)

6.	K.Bhanu Lakshmi	FDP	In-house Teacher's Training programme	LBRCE, Mylavaram	24th & 25th November 2011
7.	K.Bhanu Lakshmi	Workshop	TWO-Day Workshop on ways to Develop Research Potential	VIT, (CHENNAI)	2 days 24th and 25th Feb-2024
8.	K.Bhanu Lakshmi	Workshop	Hands-On Training Program	LBRCE, Mylavaram	20th & 21st March 2014
9.	K.Bhanu Lakshmi	Workshop	Research Opportunities for women & young Scientists in Engineering	LBRCE, Mylavaram	18th September 2010
10.	K.Bhanu Lakshmi	Webinar	Modern Trends in Mathematical and Physical Sciences	Dr.M.R.Appa Rao PG Centre, Nuzvid	20th & 21st January, 2012
11.	K.Bhanu Lakshmi	Webinar	Creative writing of research proposals & articles	Adikavi Nannaya University (Rajamahendravaram)	4th June 2020
12.	K.Bhanu Lakshmi	Webinar	Pre-requisite to start research in Mathematics	Amruthavahini college of Engineering (Sangamner)	23rd June 2020
13.	K.Bhanu Lakshmi	Webinar	How to write research paper	KLE society's science and commerce college (Maharashtra)	14th May 2020
14.	K.Bhanu Lakshmi	Webinar	National level faculty enrichment programme - Wissen 2.0	Bharathidasan college of arts and science	10th June 2020
15.	K.Bhanu Lakshmi	Webinar	A systematic statistical approach for optimal of industrial problems	KL University	5th June 2020
16.	K.Bhanu Lakshmi	Webinar	A webinar on Virtual Classroom Management using Microsoft Teams	Lakirreddy Bali reddy college of engineering	11th May 2020
17.	K.Bhanu Lakshmi	Webinar	A webinar on Node.js	Lakirreddy Bali reddy college of engineering	17th May 2020
18.	K.Bhanu Lakshmi	Webinar	Research publications, credentials and outcomes	BABA institute of technology & Sciences	9th May 2020
19.	K.Bhanu Lakshmi	Webinar	Faculty Awareness-programme on NBA to keep intact with NBA Accreditation	PACE institute of technology and sciences	17th May 2020

Administrative Roles

- Department NAAC Coordinator
- Department MCC,CCC, BOS mathematics, SAF Coordinator.
- Department DAC,PAC member.
- Student Counsellor.
- BOS member.
- Food committee member
- Member of Women Grievance cell, LBRCE (Since2018).
- BusInchargeintheyear2010-2011and2015-2016

Achievements/Awards

- **Best Researcher Award** in FED at LBRCE for the academic years 2024-25.
- **Best Teacher Award** in FED at LBRCE for the academic years 2024-25.
- **Best Teacher Award** in FED at LBRCE for the academic years 2021-22.
- **Secured 4th rank** in ANU M.Sc Entrance Examination.

Reviewer of Journals/Publishers

- Peer Reviewer: Peer Reviewer: Waves in Random and Complex Media
- Peer Reviewer: Peer Reviewer:Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering

Professional Society Membership

1. Life member “International Association of Engineers (IAENG)” (ID– 247496)

Personal Details

Name : Dr. K.Bhanu Lakshmi
DOB : 23rd March 1984.
Father’s Name : Naga Ranga Rao
Marital Status : Married (1 child)
Languages Known : Telugu, English.
Nationality : Indian
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K.Bhanu Lakshmi
Signature