

Name: P Raja Shekhar  
Designation: Assistant Professor  
Department: H&S  
Mail I'd: rajashekhar\_p@vnrvjiet.in



Experience (in years): 15      Teaching: 15      Research: 5      Others (if any, specify):

**1. Educational / Technical qualifications:**

S. No	Level (UG / PG / Ph. D)	Year of passing	Specialization
1	Ph. D	Pursuing	Fluid Mechanics
2	PG	2005	Mathematics
3	UG	2003	Maths, Stats, Computer Applications

**2. Teaching and Learning:**

- 2.1. Teaching Interests: Differential Equations, Numerical Methods, Probability & Statistics, Matrices, Complex Variables, Integral Transforms, Calculus
- 2.2. Novel Teaching & Learning Techniques adopted:
- 2.3. Involvement in curriculum updating / Design:

**3. Co-curricular and Extra-Curricular Activities**

- 3.1. Interests and Hobbies: Playing Chess, Carroms
- 3.2. CCA/ECA Organized:
- 3.3. CCA/ECA participated:
- 3.4. Counselling and Mentoring Activity:
- 3.5. Committees involved in:  
    Department level:  
    Institute Level:

**4. Conference / Workshop / Seminar / Guest Lectures:**

- 4.1 Conducted:
- 4.2 Attended:
  1. Attended Faculty enablement programme-Aptitude/soft skills conducted by IEG-JKC from 26<sup>th</sup> Nov to 1 Dec 2007
  2. Attended XX Congress of APSMS-2011 and a National conference in Mathematical Modelling & Simulation at Swarna Bharathi Institute of Science and Technology

3. Attended a short-term training programme on SYMBOLIC COMPUTING AND NUMERICAL PROGRAMMING USING MATHEMATICA/MATLAB at NIT Warangal during July 10-12, 2015.
4. Participated in one week Faculty Development Programme on AMPERE-2019(Advances in Mathematics and Physical Sciences and their educative reflections in Engineering) conducted by department of Basic Sciences and Humanities, VITS, from 1-9 July, 2019.
5. Attended two days' International Webinar on 'FLUID DYNAMICS AND ITS APPLICATIONS', Organised by the Department of Mathematics, Government First Grade College, Vijayanagara, Bengaluru on 28th and 29th May 2020, in association with Department of Mathematics, Bangalore University, Bengaluru.
6. Attended a five-day national webinar on "Fluid Dynamics from Mathematicians Viewpoint" organized by Department of Mathematics, School of Science, GITAM (Deemed to be University), Hyderabad during 9 -13 August, 2020.
7. Participated in the online webinar "An Introductory Course on Fluid Dynamics" organized by the Department of Mathematics, CHRIST (Deemed to be University), Bangalore during 17-20 August and 24-28 August 2020.
8. Participated in the "FOUR DAY FACULTY DEVELOPMENT PROGRAMME ON APPLICATIONS OF MATHEMATICS IN ENGINEERING" conducted by department of Mathematics, KPRIET, from 25-08-2020 to 28-08-2020
9. Participated in the "Five Days International e-Seminar on Recent Research in Mathematics (ISRRM-2020)" from 11th to 15th September, 2020 organized by Department of Mathematics, School of Science, GITAM, Bengaluru.
10. Participated in a 5- Day FDP on "Applications of Mathematics and Statistics in Engineering" (AMSE-2020), 23rd- 27th Nov, 2020 organized by the Department of Mathematics, Malla Reddy Engineering College (Autonomous), Secunderabad.

## 5. Academic Contribution and Research & Consultancy:

5.1. Invited Lectures:

5.2. Articles / Chapters published in Books:

5.3. Books published as single author or as editor:

5.4. Projects Guided:

a) UG:      b) PG:

5.5. Research Interests: Fluid Mechanics

5.6. Ph.D students :

a) Enrolled: yes    b) Submitted    about to submit                  c) Awarded:

5.7. Papers published in reviewed journals

S.No	Title of the Paper	Journal Name Vol.No. PP	ISBN/ISSN No.	Impact Factor/ Citation Index	National/ International
1	Thermal Radiation Effect on Entropy in Hydromagnetic Peristaltic Flow of a Jeffrey	International Journal of Innovative	2278-3075,	0.10	International

	Nanofluid Through an Unsymmetrical Channel	Technology and Exploring Engineering (IJITEE) Volume-9 2015-2021			
2	Second law analysis of MHD Jeffrey fluid through asymmetric channel with peristalsis	AIP Conference Proceedings Volume-2246 020042-1 - 020042-8	1551-7616	0.4	International
3	Heat generation and chemical reaction in flow propagated by peristalsis incidence of radiation in MHD Jeffrey nanofluid	INDIAN JOURNAL OF SCIENCE AND TECHNOLOGY Volume-13, Issue 31 3213-3221	0974-5645	0.6	International

5.8. Papers presented at National / International conferences:

S.No	Title of the Paper	Names of the Conference/ Seminars	National/ International	Period
1	Entropy analysis in peristaltic flow of MHD Jeffrey fluid	INTERNATIONAL CONFERENCE ON NUMERICAL HEAT TRANSFER AND FLUID FLOW (NHTFF-2018)	INTERNATIONAL	19-21 Jan, 2018
2	Second Law Analysis in Magneto Hydro Dynamics in Peristaltic Transport of Jeffrey nano fluid	National Conference on Advances in	National	12-13 Apr 2019

	through an asymmetric channel	Computational Fluid Dynamics		
3	Effects of Brownian motion and thermophoresis on Peristaltic transport of a Jeffrey nanofluid entropy generation	National Conference on Recent Advances in Mathematics and its Industrial Applications (NCRAMIA-2020)	National	06-07, February 2020

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 / Honours received:** Qualified SET in 2018

**7. Motto:**