

VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING & TECHNOLOGY

KNOWLEDGE ASSET 2022-23

Name: Adigoppula Raju
Designation: Asst. Prof
Department: H& S
Mail I'd: raju_a@vnrvjiet.in



Experience (in years): 17 Teaching: 17 Research: 7 Others(if any, specify):

1. Educational / Technical qualifications:

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1	B.Sc	2002	Mathematics, Physics and Computer Science
2	M.Sc	2005	Mathematics and Scientific Computing
3	Ph.D	2020	Fluid Dynamics, Numerical Methods

2. Teaching and Learning:

- 2.1. Teaching Interests:
- 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:
- 3.2. CCA/ECA Organized:
- 3.3. CCA/ECA participated:
- 3.4. Counseling and Mentoring Activity:
- 3.5. Committees involved in:
 - Department level:
 - Institute Level:

4. Conference / Workshop / Seminar / Guest Lectures :

- 4.1 Conducted:
- 4.2 Attended: 05

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 :
- 5.6. Ph.D students :
 - a) Enrolled : b) Submitted : 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	Influence of thermophoresis and induced magnetic field on chemically reacting mixed convective flow of Jeffrey fluid between porous parallel plate	Journal of Molecular Liquids 232 (2017): 195-206		6.5	International
2	A comparative study of heat transfer analysis on ethylene glycol or engine oil as base fluid with gold nanoparticle in presence of thermal radiation	Journal of Thermal Analysis and Calorimetry 145 (2021): 2647-2660.			
3	"Influence of induced magnetic field and radiation on free convective Jeffrey fluid flow between two parallel porous plates with Soret and Dufour effects	Journal of Mechanics 35.5 (2019): 657-675.			
4	Combined effects of variable thermal conductivity and induced magnetic field on convective Jeffrey fluid flow with nth order chemical reaction	Heat TransferAsian Research Vol. 48, No.2, pp. 663-683, 2019.(Scopus Indexed)			
5	Influence of homogeneous/heterogeneous reactions and induced magnetic field on the nonlinear thermal convective radiative Jeffrey liquid flow with heat source/sink.	Heat TransferAsian Research Vol. 48, No.8, pp. 3843-3865, 2019(Scopus Indexed)			
6	Heat and mass transfer analysis of MHD couple stress fluid flow through expanding or contracting porous pipe with cross diffusion effects.	International journal of dynamics and control, Vol. 7, No.4, pp.1293-1305,2019.(Scopus Indexed)			
7	"Numerical investigation of induced magnetic field and variable mass diffusivity on double stratified Jeffrey fluid	Heat Transfer, Vol.50, No.2, pp.1073-1094,2021.(Scopus			

	flow with heat and mass flux boundary conditions	Indexed)			
8	The combined effects of induced magnetic field, thermophoresis and Brownian motion on double stratified nonlinear convective-radiative Jeffrey nanofluid flow with heat source/sink.	The Journal of Analysis, Vol.28, No.2, pp.503-532, 2020 28.2(Scopus Indexed)			
9	Effects of the induced magnetic field, thermophoresis, and Brownian motion on mixed convective Jeffrey nanofluid flow through a porous channel.	Engineering Reports Vol.1, No.4,e12053, 2019			
	A study on the effect of waste plastic strips in the stabilization of clay soil.	n IOP Conference Series: Materials Science and Engineering, vol. 981, no. 3, pp. 032062, 2020.			
	"MHD mixed convective and chemical reactive Couple Stress fluid through expanding or contracting porous pipe in presence of thermal radiation	The International Journal of Engineering and Science (IJES) pp. 19-30, 2020.			
	Bio-convective Hartmann flow of couple stress hybrid nanofluid between two dilating parallel walls with heat and mass transfer.	Journal of Nanofluids Accepted (Scopus, ESCI Indexed, I.F-1.9), 2023			

5.8. Papers presented at National / International Journals :

S.No	Title of the Paper	Names of the Conference/ Seminars	National/ International	Period
1				
2				

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 / Honors received:

7. Motto: