

DR. GALLA VENKATESWARA RAO-KNOWLEDGE ASSET (2021-22)



Name: Dr. Galla Venkateswara Rao

Designation: Assistant Professor (Physics)

Department: Humanities & Sciences (Physics)

Mail I'd: venkateswararao_g@vnrvjiet.in

Experience (in years): Teaching: 20+ **Research:** 7 Others (if any, specify):
eLearning development

1. Educational / Technical qualifications:

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1	B.Sc. (Acharaya Nagarjuna University)	1988	Physics
2	M.Sc. (Univeristy of University)	1991	Solid State Physics
3	M. Phil. (University of Hyderabad)	1993	Non-linear Optics
4	Ph.D (University of Hyderabad)	2000	Non-linear Optics
5	CSIR (SET)	1991	Physical Sciences

2. Teaching and Learning:

2.1. Teaching Interests:

- Engineering Physics
- Applied Physics
- Nanotechnology
- Basics of Quantum Computing

2.2. Novel Teaching & Learning Techniques adopted:

- WIT & WIL
- Scenario
- Learning by Doing
- Technical Quiz
- Coursera
- Microsoft Teams
- E-Learning

3. Co-curricular and Extra-Curricular Activities

3.1. Interests and Hobbies:

- Watching short videos

- Reading Books

3.2. CCA/ECA Organized:

1. Parent-Faculty Interaction Committee Convener and acting vice principal of the college
2. Vice principal, HOD of H&S, Exam branch In –charge and Parent-Faculty Interaction Committee Convener at MRCEW
3. Acted as Coordinator for TechPragna-09, an all India student paper presentation program, conducted on 13th - 14th March' 09., MRCEW
4. Acted as member of interview panel at MRCEW
5. In charge of Physics Lab at VNRVJIET (2005-06)
6. Coordinator of Subject Matter Experts of Physics, Chemistry and Maths Sasanka eLearning Solutions Pvt. Ltd.

3.4. Counseling and Mentoring Activity: Nil

4. Conference / Workshop / Seminar / Guest Lectures:

4.1 Conducted:

1. National level students' technical and cultural fest from 05/02/2014 to 6/02/2014 at KITS.

4.2 Attended: Nil

4.3 Webinars Attended: Nil

5. Academic Contribution and Research & Consultancy:

5.1. Invited Lectures: Nil

5.2. Articles / Chapters published in Books: Nil

5.3. Books published as single author or as editor:

1. **Solid State Physics** for first year B. E/ B. Tech students of JNTU, Published Shruthi Series, Hyderabad.
2. Engineering Physics for first year B. E/B. Tech students of Civil Mechanical Students (To be published)
3. A book on general Information on Engineering Education (in English and Telugu) Shruthi Series, Hyderabad.
4. Study and Revision Guide for IBDP (SL and HL) & IGCSE (11 and 12th) Physics (Leanpub)
5. Simplified Physics For IIT/NEET Foundation, 3-Vols. (To be published).

5.4. Projects Guided: Nil

5.5. Research Interests:

- Multifunctional Materials
- Photonics & Non-linear optics
- ZnO Nanocomposites
- Nano materials

- Lithium ion batteries

5.6. Ph.D students:

- a) Enrolled: Nil
- b) Submitted: Nil
- c) Awarded: Nil

5.7. Papers published in reviewed journals: 1

1. P. Radhika, G.V.Rao et. al., "Development of a Modular Unit of a Higher Level Framework or Tool for Basic Programming Course Teaching Through E-Learning Mode" December 2018; TELKOMNIKA DECEMBER 2018.

5.8. Papers presented at National / International Journals: 4

1. G. V. Rao and Surya P. Tewari , Theory of Anomalous behavior in CW Multiwave Scattering in Dye doped Solids, at National laser Symposium (NLS), Feb' 1997 (CAT, Indore, M. P)
2. G. V. Rao,, Surya P. Tewari and G. R. Kumar, Population Grating in Saturable/Reverse saturable absorbers' at NLS , Dec' 1998 (CAT, Indore)
3. G. V. Rao et. al., ' Enhancement/reduction of diffraction signals in absorbing media with multiple channels', NLS, Dec, 1999, Kanpur
4. G. V. Rao et. al., 'Transient DMWM in multilevel absorbing media', NLS Dec., 2000 at University of Hyderabad.

5.9. Sponsored research Projects: Nill

5.10 Consultancy Projects: Nil

6. Awards / Honors received:

1. NET: Qualified National Eligibility Test, jointly conducted by UGC & CSIR (Award No. 9/414(245) 91 /EMR-I; Roll No. 17909)
2. Awarded Junior Research Fellowship (JRF) by CSIR for 2-years Jan' 1992 to Dec' 1993
3. Awarded Senior Research Fellowship (SRF) by CSIR for 3-years Jan' 1994 to Dec' 1996

7. Motto:

- ✓ "Satyameva Jayate" - Mundaka Upanishad.
- ✓ "Education is the most powerful weapon which you can use to change the world." - Nelson Mandela.