

# Dr. GALLA VENKATESWARA RAO-KNOWLEDGE ASSET (2022-23)



**Name:** Dr. Galla Venkateswara Rao

**Designation:** Assistant Professor (Physics)

**Department:** Humanities & Sciences (Physics)

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**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 13<sup>th</sup> - 14<sup>th</sup> 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:

Guidance to Two batches of students for their summer Internship in the Area of AIML.

## 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: Nill

### 4.3 Webinars Attended: Nill

## 5. Academic Contribution and Research & Consultancy:

### 5.1. Invited Lectures: Nill

### 5.2. Articles / Chapters published in Books: Nill

### 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:

A Mini project to three CS-BS students of 3<sup>rd</sup> year On the Topic of “Fine Tuning BERT Natural Language Model for Trade Economics”

### 5.5. Research Interests:

- Multifunctional Materials

- Photonics & Non-linear optics
- ZnO Nanocomposites
- Nano materials
- Lithium ion batteries

#### 5.6. Ph.D students:

- Enrolled: Nil
- Submitted: Nil
- Awarded: Nil

#### 5.7. Papers published in reviewed journals: 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

- 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)
- G. V. Rao,, Surya P. Tewari and G. R. Kumar, Population Grating in Saturable/Reverse saturable absorbers' at NLS, Dec' 1998 (CAT, Indore)
- G. V. Rao et. al., ' Enhancement/reduction of diffraction signals in absorbing media with multiple channels', NLS, Dec, 1999, Kanpur
- 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:

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