

**Name:** Dr. A.R.Balavardhana Rao

**Designation:** Assistant Professor

**Department:** Humanities and Sciences

**Mail.I.D:** balavardhanarao\_ar@vnrvjiit.in

**Experience (in years): Teaching: 7yrs Research: 9yrs Others:**



**1. Educational / Technical qualifications:**

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1	Ph.D	2014	Inorganic chemistry
2	M.Sc	2007	Inorganic chemistry
3	B.SC	2005	MPC

**2. Teaching and Learning:**

**1.1 Teaching Interests:**

- Engineering Chemistry
- Inorganic Chemistry

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

**3.1. Interests and Hobbies:**

- Reading Books
- Playing Cricket and Chess

3.2. CCA/ECA Organized: Nil

3.3. CCA/ECA participated: Nil

3.4. Counseling and Mentoring Activity: Nil

3.5. Committees involved in: Nil

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

4.1 Conferences conducted: Nil

4.2 Conferences Attended:

- Chemfest-2014 11th Annual In-House Symposium, 21-22 February, 2014, University of Hyderabad, India.  
**Oral presentation:** Cyclometallates of aroylhydrazones of polycyclic aromatic aldehydes: regioselective metallation of the aryl, **A.R. Balavardhana Rao**, Samudranil Pal
- Modern Trends in Inorganic Chemistry, MTIC- XV, 13-16 December, 2013, IIT Roorkee, India.  
**Poster presentation:** Cyclometallates of aroylhydrazones of polycyclic aromatic aldehydes: regioselective metallation of the aryl **A.R. Balavardhana Rao**, Samudranil Pal
- Chemfest-2013 10th Annual In-House Symposium, 15-16 February, 2013, University of Hyderabad, India.  
**Poster presentation:** Regioselective cyclometallation of aroylhydrazones of polycyclic aromatic aldehydes. **A.R. Balavardhana Rao**, Samudranil Pal.
- Modern Trends in Inorganic Chemistry, MTIC- XIV, 10-13 December, 2011, University of Hyderabad, India.  
**Poster presentation:** Cyclopalladated complexes with aroylhydrazones of polycyclic aromatic aldehydes, **A.R. Balavardhana Rao**, Samudranil Pal.

4.3 Workshops attended:

- Teaching and evaluating for the 21<sup>st</sup> century organized by IIT Hyderabad Teaching Learning center on 18<sup>th</sup> & 19<sup>th</sup> May 2016 at VNR VJIET, Hyderabad.

- Completed an AICTE approved Faculty development Programme on “Foundation Programme in ICT for Education” conducted by Indian Institute of Technology Bombay from August 3, 2017 to September 7, 2017.
- Completed an AICTE approved Faculty development Programme on “Pedagogy for Online and Blended Teaching-Learning Process” conducted by Indian Institute of Technology Bombay from September 14, 2017 to October 12, 2017.
- Completed a Faculty development Programme on “FDP301X: Mentoring Educators in Educational Technology” conducted by Indian Institute of Technology Bombay from May 24, 2018 to June 30, 2018.

## 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: nil

5.4. Projects Guided: nil

5.5. Research Interests:

- Fuel cells
- Water splitting
- Inorganic Chemistry
- Organometallic Chemistry
- Crystallography
- Solar cells

5.6. Research projects ongoing: 1

One research project funded by DST-SERB under the scheme of TEACHERS ASSOCIATESHIP FOR RESEARCH. EXCELLENCE (TARE) is accepted for funding of worth 18.3 lakhs.

Title of the project: **Inorganic-Organic Hybrids based on Kegging-type Polyoxometalate-Schiff Base metal complexes: Synthesis, Characterization and Proton Conducting studies.**

5.7. Ph.D students:

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

5.8. Papers published in reviewed Journals:

- 1) Syntheses, structures and catalytic activities of two cyclopalladated complexes derived from N'-(2-naphthylidene)benzohydrazide: G. Narendra Babu, A.R. Balavardhana Rao, Srinivas Keesara, Samudranil Pal. Journal of Organometallic Chemistry, 2017, 848, 243–248.
- 2) Mono- and dinuclear platinum(II) complexes via single and double cycloplatinations of N'-(arylidene)benzohydrazides: A.R. Balavardhana Rao, Samudranil Pal. J. Organomet. Chem., 2015, 797, 96.
- 3) A half-sandwich rhodium(III) complex with 4-bromo-N-(1-pyrenylidene)aniline: regioselective cyclorhodation of 1-pyrenyl: A.R. Balavardhana Rao, Samudranil Pal. J. Chem. Res., 2015, 39, 582-585.
- 4) Regioselective Cyclometallation with Some Platinum group Metals ions: A.R. Balavardhana Rao, Samudranil Pal. J. Organomet. Chem., 2014, 762, 58.

- 5) Regioselective cyclometallation of 4-R-1-naphthaldehyde benzoylhydrazones: Palladium(II) complexes with CNO pincer like ligands: A.R. Balavardhana Rao, Samudranil Pal. *J. Organomet. Chem.*, 2013, 731, 67.
- 6) Cyclopalladated complexes with 9-anthraldehyde aroylhydrazones: Synthesis, properties and structures: **A.R. Balavardhana Rao**, Samudranil Pal. *J. Organomet. Chem.*, 2012, 701, 62.
- 7) Cyclopalladation of indole-3-carboxaldehyde aroylhydrazones: A.R. Balavardhana Rao, Samudranil Pal. *J. Organomet. Chem.*, 2011, 696, 2660.

**6. Awards / Honors received:** nil

**7. Motto:**