

**KNOWLEDGE ASSET 2022-23**

**Name:** Dr. Sri Charitha Annam  
**Designation:** Assistant Professor  
**Department:** Humanities and Sciences (Chemistry)  
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**Experience (in years):** 18  
**Teaching:** 18      **Research:** NIL      **Others (if any, specify):** NIL

**1. Educational/Technical qualifications:**

S.No.	Level (UG / PG / Ph.D)	Year of passing	Specialization
1.	UG – B.Sc.	2002	CBZ
2.	PG – M.Sc.	2005	Organic Chemistry
3.	M.Phil.	2010	Chemistry
4.	Ph.D.	2022	Chemistry

**2. Teaching and Learning:**

**2.1. Teaching Interests:**

- Applied Chemistry
- Engineering Chemistry
- Organic Spectroscopy
- Organic reaction mechanisms
- Drug Chemistry
- Natural products

**2.2. Novel Teaching & Learning Techniques adopted:**

- Crossword puzzles
- Scrambled words
- Quiz through Snake and Ladder game
- Introduction of concept through story narration
- Story board
- WIT and WIL
- Laboratory Protocol
- Flipped Classroom
- PowerPoint presentation
- Video presentation

**2.3. Involvement in curriculum updating/Design:** NIL

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

**3.1. Interests and Hobbies:**

- Painting
- Listening to music
- Watching movies in different languages
- Gardening
- Reading books
- Organizing things

**3.2. CCA/ECA Organized:** NIL

**3.3. CCA/ECA participated:** NIL

**3.4. Counselling and Mentoring Activity:** NIL

**3.5. Committees involved in:**

**Department level:** NIL

**Institute Level:** NIL

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

**4.1 Conducted:** NIL

**4.2 Attended:**

- Participated in a Two-day UGC sponsored National seminar on “Development of advanced materials in physics and electronics and their applications” organised by the Department of physics and electronics, KBN college, Vijayawada on 15<sup>th</sup> and 16<sup>th</sup> October 2014.
- Presented a poster in the international conference on “Nanoscience and engineering applications” held at Centre for nanoscience and technology, Institute of science and technology, JNTUH, Hyderabad during 26<sup>th</sup>, 27<sup>th</sup> and 28<sup>th</sup> 2014.
- Participated in the Faculty development programme conducted in NRI institute of technology, Pothavarapadu, Agiripalli mandal, Vijayawada from 9<sup>th</sup> to 10<sup>th</sup> June 2013.
- Participated in Mission 10X workshop conducted at NRI institute of technology, Agiripalli mandal, Vijayawada from 3<sup>rd</sup> to 7<sup>th</sup> April 2012.
- Presented a paper in the National seminar on “Nanomaterials in engineering chemistry” sponsored by AICTE at VR Siddhartha Engineering college, Vijayawada on 13<sup>th</sup> September 2010.
- Presented a paper in the UGC sponsored National seminar on “Insight into nanomaterials” at Andhra Loyola College, Vijayawada on January 5<sup>th</sup> and 6<sup>th</sup> 2010.
- Presented a paper in the UGC sponsored National seminar on “Nanomaterials and their applications” at DAR college, Nuzvid on 10<sup>th</sup> and 11<sup>th</sup> December 2009.
- Participated in the national level workshop on “Radio chemistry” jointly organized by the Indian association of nuclear chemists and Allied scientists (IANCAS) and the department of chemistry, Andhra Loyola college, Vijayawada on 24<sup>th</sup> October 2009.
- Participated in the UGC sponsored national seminar on “environmental pollution with special reference to water pollution” at Sir CR Reddy autonomous college, Eluru on 12<sup>th</sup> December 2008.
- Participated in a National seminar on “Green organic synthesis in pharmaceuticals – an overview” organized by Department of chemistry, P.B. Siddhartha college of arts and science, Vijayawada on 15<sup>th</sup> December 2007.
- Participated in the UGC sponsored national seminar on “current trends in synthetic aspects of organic chemistry” organized at JKC college, Guntur, on 10<sup>th</sup> and 11<sup>th</sup> February 2007.

#### **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 :**

a) UG : NIL    b) PG : NIL

**5.5. Research Interests:**

- Study of molecular interactions between various Ionic Liquids and organic solvents
- Synthesis, characterization, DFT and TD-DFT studies of conjugates polymer-based polymer solar cells
- Organic synthesis

- Nanomaterials and Nanotechnology
- Organometallic compounds

**5.6. Ph.D students :**

a) **Enrolled:** NIL

b) **Submitted:** NIL

c) **Awarded:** NIL

**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.	Density Functional theory (DFT) study of electronic and optical properties of Donor (D) – Acceptor (A) monomers based on 2,7 carbazole linked with some acceptor groups	Asian journal of Chemistry/33 (9)/pp 2073-2081	ISSN: 0975-427X (Online) ISSN: 0970-7077 (Print)	0.49	International
2.	Computational Designing of Low Energy Band Gap of New Donor-Acceptor (D-A) Copolymer Monomers for Organic Solar Cells: DFT and TD-DFT Study	Science and technology journal/Vol 8/Issue 2/pp 44-54	ISSN: 2321-3388	-	National

**5.8. Papers presented at National / International Journals: NIL**

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

**5.9. Sponsored research Projects: NIL**

S.No	Title	Agency	Period	Grant amount	Ongoing / Completed

**5.10 Consultancy Projects: NIL**

S.No	Title	Agency	Period	Sanctioned Amount	Ongoing / Completed

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

**7. Motto:** “Tell me and I forget. Teach me and I remember. Involve me and I learn.”