Dr. VASUNDHARA DASARI

Assistant Professor of Chemistry
Department of Basic Sciences &Humanities

Academic Profile:

- Ph.D: 2015-2021; Chemistry Department, GITAM University, Visakhapatnam, India. **Thesis Title:** Adsorption studies of Trivalent Rare Earth Elements (La, Pr, Nd and Gd) by Nano Metal Oxides (Ɣ – Fe_2O_3), (Co_3O_4) and Composites ($CoFe_2O_4$) – Adsorption Isotherms and Kinetics.

- 2006–2008: Masters in Science: Organic Chemistry, College of Science and Technology, Andhra University, Visakhapatnam.

ACHIVEMENTS:

- Innovation Patent in **Kitchen Waste Convert into an Organic Material Device** by Australian Government, IP Number: 2021100215
- **FDPS:** UHV 1 and UHV2.
- **COMPUTER SKILLS :** C ,C++, MS word, Excel, power point

WORK EXRERIENCE:

- Working as an Asst. Prof. Chemistry in RAGHU INSTITUTE OF TECHNOLOGY
- Worked as an Asst. prof. Chemistry in Shivani Institute of Technology, Chilakapalam from 2012-2014.
- Worked as an Asst. prof. Chemistry in Mithra Institute of Technology, Etcherla from 2009 -2012.

RESEARCH PROFILE:

- "Synthesis characterization and Cytotoxic investigation of novel C3-Dihydrofuran substituted 1H – benzo [g] chromene-2,5,10 – triones besides Antimicrobial study." Asian Journal of Chemistry volume 29, No 3 (2017), 503-511. https://doi.org/10.14233/ajchem.2017.20209.
- A paper was published in the Asian Journal of Chemistry volume 29, No 7 (2017), 1525 -1532 . "Synthesis and Antiproliferative Activity of Some Dihydro-1H- furo[2,3-c]pyrazole-Flavone Hybrids". https://doi.org/10.14233/ajchem.2017.2020550.
- "One pot Synthesis of Noval Substituted 2',4'- Dihydrospiro [chroman – 2,3-pyrazol]-4-one Derivatives." Published a paper in the Journal of Chemistry ISSN 2278 -1862. Current Organic Synthesis
- "Cationic surfactant Assisted Synthesized copper(II) oxide Nano particles for the Removal of Anionic dyes, Adsorption Isotherms and Kinetics. "2018,7(5); 1428-1433. Research Journal of Pharmaceutical , Biological and Chemical Sciences ISSN 0975 -8585.
- "Adsorption of Fast Green using Base Treated Carbonized Rice Husk- Kinetics And Thermodynamics Parameters." A paper was published in the Current Nanonaterials, xxxx Volume xx, No x.
- "Adsorption Isotherms and Kinetics of the Adsorption of Rare Earth Elements {La(III) &Pr(III)} by Nanocobalt Ferrite. Sambodhi (UGC Care Journal) Vol-43, No.-04 (IV) ISSN: 2249-6661. July-September (2020)
- "'Nanocobalt Oxide for the adsorption of Rare Earth Elements {la(iii) & nd(iii)} - adsorption isotherms and kinetics" IJESC JOURNAL ISSN2321-3361, Volume10, Issue No-4.
- " CTAB Assisted copper (II)oxide Nanoparticles for the Adsorption of Dyes – Cong Red and Fast Green." Journal of Chemistry and Chemical Sciences.Vol.10(4), 152-159, April, 2020. ISSN 2319-7625 (Online) ISSN 2229-760X (Print)
- "Synthesis and Characterisation studies of Nano Metal Oxide (γ-Fe_2O_3,$Co_3O_4$and $CoFe_2O_4$) At Room Temperature. Journal of Physics: Conference Series IOP Journal of Physics (ICMM-252) : J. Phys.: Conf. Ser. **1495** 012013
- "Radionuclide sorption onto nano iron oxide: Synthesis and application to Natural Water. " American journal of Chemical Engineering.1 (1),January 2020. ISSN :2688-1063
  Electrochemical characteristics of some transition metal oxides- γ-Fe_2O_3 and Co_3O_4 as super capacitors.
- Synthesis and Characterisation of MFe_2O_4 (M=Zn,Cu) Spinel Ferrite Nano Particles published in Journal Of Pharmaceutical negative results; vol 30; special issue 07, 2022.

National Conference: 03
International Conferences: 05