

## Dr. HimaBindu Pitta



Education: MSc, PhD., MSc(Psychology)

Doctor of Philosophy

Thesis title :Characterization of sediments in wells of Krishna-Godavari basin applying natural gamma ray spectroscopy methods

Research Experience

Area of research: NUCLEAR RADIATION PHYSICS, MATERIALS SCIENCE

Instrumentation used in conducting their research: WELL LOGGING TOOL (SCHLUMBERGER), SCINTILLATION AND SEMICONDUCTOR DETECTORS, MULTI CHANNEL ANALYSER, XRD, SEM, BALL MILL

Postdoctoral Fellow: DEPARTMENT OF PHYSICS AND ENGINEERING,  
UNIVERSITY OF SURREY & TRUEINVIVO LTD, GUILDFORD, SURREY, UNITED KINGDOM  
(October 2018 to September 2019)

Areas of Teaching Experience

PG Level:

1. Solid State Physics
2. Nuclear Physics
3. Digital transformation techniques and Information theory
4. Basic electronics
5. Nanomaterials and devices
6. Properties of Nanomaterials
7. Carbon nanotubes
8. Synthesis and characterization of nanomaterials
9. Mathematical Physics
10. Electromagnetic theory
11. C-Programming

UG Level:

1. Optics
2. Electricity and magnetism
3. Thermodynamics
4. Waves and Oscillations
5. Modern Physics
6. Engineering Physics

#### Awards / Grants

Name of the award Received	International/ National/ State/University/District/College level	Nature of Award	Month & Year of the Award
Felicitation by Red Cross Society India	State level	Society	September 2022
Vice-Chancellor's Research award	University	Scientific	January 2022
Felicitation by Sneha Group of Organisations	International	Society	December 2021
Guru Spandana by SpandanaEda Foundation	International	Society	October 2021
Visiting Academic Researcher	International, University of Surrey	Research	October 2018-2019
Professor of the year	National Level	Proficiency	October 2018
Alliance clubs International	National Level	Society	2018

#### PROFESSIONAL MEMBERSHIPS / ORGANIZATIONS

- Indian Association of Physics Teachers (Life time) since 2016
- Environment and social development association (ESDA) (Life time) since 2019
- Member WICCI, Telangana Chapter, since July 2022
- Life Member IRPS, India since September 2022, LM-1242

Publications:

<https://scholar.google.com/citations?hl=en&authuser=1&user=GvCkBVkAAAAJ>

WEBPAGE: <https://sites.google.com/view/hbpitta/home>