

**BIODATA**  
(BRIEF INFORMATION)

Name of Faculty: **Dr. Aparna H. Rangari**  
**Assistant professor**  
Institute: K Z S Science College, Kalmeshwar  
<https://www.kzssclege.edu.in/>  
Department: **Physics**  
Contact no: **9657702037**  
Email id: **aparnarangari1982@gmail.com**



**1. Educational Qualification:**

**B. Sc.:** In PCM with II Class from 2003, KZS science college, Bramhani, RTMNU.  
Kalmeshwar RTMNU university Nagpur.

**M. Sc.:** In PHYSICS with II class from 2007

**B.Ed :** PHYSICS, MATHS

**2. NET/SET Qualification:** No

**3. Teaching experience:** UG 8 years

**4. Designation:** Asst. Professor

**5. Doctorate:**

Under the guidance of

**Prof. /Dr. – UPENDRA MAHATME**

**Topic:** "TO STUDY ON ELECTRIC AND MAGNETIC PROPERTIES OF SOME CONDUCTING POLYMER WITH INORGANIC COMPOUNDS"

Awarded by RTM Nagpur University on 28/07/2016

Place of Research Work: DEPARTMENT OF PHYSICS, NAGPUR.

**6. Field of Research and Interest:**

**Field of Research:** CONDUCTING POLYMER

**Research Interest:** "Synthesis, Characterization, Electrical and Magnetic Parameters of Conducting Polymers, Co-polymers their Nano-composites with Inorganic compounds."

**Research Project (UGC):**

NIL

## 7. Publications:

|  |     |
|--|-----|
| 7.1. Number of papers published in peer reviewed journals:         | 8   |
| 7.2. Number of papers published in conferences/seminars/symposium: |     |
| National:  | - 1 |
| International:   | -2  |
| 7.3. No. of Books Authored:/ Chapter in a book:                    | -1  |

## 8. Conferences/seminars/symposiums attended

|  |    |
|--|----|
| National/state Conferences/Seminars/Symposiums attended: | -4 |
| International Conferences/Seminars/Symposiums attended:  | -3 |

## 9. Paper Presented in Conference attended:

|                |     |
|----------------|-----|
| National:      | - 1 |
| International: | - 7 |

## 10. Guide / Supervisor on the panel of RTMNU, Nagpur:

|                             |     |
|-----------------------------|-----|
| Ph. D. Students Registered: | Nil |
| Thesis Submitted:           | Nil |
| Ph. D. Awarded:             | Nil |

## 11. Guest lecture delivered:

|                               |     |
|-------------------------------|-----|
| In other colleges/institutes: | Nil |
| In teacher's training:        | Nil |
| In workshop/seminar:          | Nil |

## 12. Blood donation: Actively participated in Blood donation camp (2018-2019)

## 13. Program organized in college:

- i. Organized Webinar on gender equality womens cell
- ii. Actively participated in students induction programme organized by IQAC KZS SCIENCE COLLEGE KALMESHWAR.
- iii. Organized guest lecture on topic cyber security
- iv. Actively participated in birth anniversary of Dr Subhash Chadra Bose by NSS and IQAC
- v. Committee member of "Anti- Sexual harassment and girls security committee"for Session 2019-20
- vi. Committee member of "women cell" for Session2019-2020

## 14. Research Profile Membership: (Research Gate, Google Scholar, etc )

- Rsearch gate

## 15. Orientation course ( 2021)

Faculty development programme 2 (20-21)

---

## List of Publication References

### **A. Papers Published in Peer Reviewed Journals**

1. Synthesis and Characterization of Polyaniline/ SilverIodideComposite via Oxidative Polymerization (International Journal of Emerging Technology and Advanced Engineering Website: [www.ijetae.com](http://www.ijetae.com) (ISSN 2250-2459, ISO 9001:2008 Certified Journal, Volume 5, Issue 2, February 2015)
2. Study on Ultraviolet Absorbing PANI/CuO Micro Ribbons (International Journal of Emerging Technology and Advanced Engineering Website: [www.ijetae.com](http://www.ijetae.com) (ISSN 2250-2459, ISO 9001:2008 Certified Journal, Volume 5, Issue 2, February 2015)
3. Thermal Stability of Electrically Conductive Sulphonated and Chlorinated Polyaniline: Their Spectroscopic Study (International Journal of Emerging Technology and Advanced Engineering Website: [www.ijetae.com](http://www.ijetae.com) (ISSN 2250-2459, ISO 9001:2008 Certified Journal, Volume 5, Issue 2, February 2015)
4. Sulfonated Polyaniline-20%MgO Nanocomposites: Possible Biomedical Material <http://www.onlinejournal.in> Vol-3, Issue-5, 2017SSN: 2454-1362
5. Dielectric study of polyaniline in the low frequency range at room temperature and 70<sup>0</sup> respectively Mukt Shabd Journal Volume IX, Issue V, MAY/2020 ISSN NO : 2347-3150
6. The effect of oxidants and dopant on morphology, crystallinity and optical absorbance of nano structural polyindole. Materials today Proceedings
7. Preparation of UV, LASER and white light sensitive conducting polymer poly 3, 4-ethylenedioxythiophene “PEDOT” nanoparticles. Materials today Proceedings

### **B. Papers Published in Conferences Proceedings**

1. Effect of oxidant, dopant and MO additive loading on morphology, conductivity and dielectric constant of 3D conducting polymer PPy/ $\alpha$ -Fe<sub>2</sub>O<sub>3</sub> nanocomposites Cite as: AIP Conference Proceedings 2104, 020007 (2019); <https://doi.org/10.1063/1.5100375> Published Online: 07 May 2019

### **C. Book Published**

1. **Book-** Advanced Aspects of Engineering Research Vol. 6, Publisher: B P International **Chapter 14<sup>th</sup>** - Detailed Studies on the Effect of Oxidant, Dopant and MO Additive Loading on Morphology, Conductivity and Dielectric Constant of 3D Conducting Polymer PPy/ $\alpha$ -Fe<sub>2</sub>O<sub>3</sub> Nanocomposites Print ISBN: 978-93-90888-02-3, eBook ISBN: 978-93-90888-10-8