




Government Autonomous College, Rourkela

Faculty Profile

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|---|--|----------------------|------------------------|---|
| Name | Dr. Annapurna Mohanta | | |  |
| Designation | Asst. Professor | | | |
| Department | PHYSICS | | | |
| Address (Office) | Govt. Autonomous College Rourkela | | | |
| Address (Residence) | Govt. Autonomous College Rourkela, Campus. | | | |
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| Alternate Email | | | | |
| Qualifications | | | | |
| Degree | Institution | Year | Subject Details | |
| BSc | North Odisha University | 2002 | Physics (Hons) | |
| MSc | NIT, Rourkela | 2004 | Physics | |
| M Phil | Utkal University | 2005 | Physics | |
| PhD | NIT, Rourkela | 2012 | Physics | |
| Areas of Interest/ Specialization: | | | | |
| Condensed Matter Physics | | | | |
| Teaching/Research Experience | | | | |
| Organization/Institution | Designation | Duration | Role | |
| National Institute of Technology, Rourkela | Research Scholar | 2006-2012 | Ph. D. Research | |
| Central Power Research Institute, Bangalore | Research Fellow | Sept,2010-Sept,2012 | Research and testing | |
| MNNIT, Allahabad | Research Associate | Jan, 2014 –July,2014 | Research and testing | |
| S.G.W.C., Rourkela | Assistant Professor | July,2014-Jan, 2018 | Teaching and research | |
| Govt. Autonomous College, Rourkela. | Assistant Professor | Jan, 2018- till date | Teaching and research | |
| Course Taught | | | | |
| Intermediate(+2) - Thermal Physics, Dual Nature of Radiation and Matter, Atoms and Nuclei, Communication Systems | | | | |
| UG -Classical Mechanics, electricity and magnetism, Waves and Optics, Thermal Physics, Elements of Modern, Physics, Quantum Mechanics and Applications, Solid State Physics, Electromagnetic Theory | | | | |
| PG- Classical Mechanics, Basic Solid State Physics, Atomic and Molecular Physics, Introduction to Astrophysics, Condensed Matter Physics | | | | |
| Ph. D. Guidance | | | | |
| No of Student Guided : | | | | |
| No of Student Guiding : | | | | |
| Publications: 18 | | | | |
| Publication Details: Attached in Separate sheet | | | | |

LIST OF REPUTED JOURNAL PUBLICATIONS

1. **Annapurna Mohanta** and Dhruvananda Behera, Effect of granularity and inhomogeneity in excess conductivity of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}+\text{xBaTiO}_3$ superconductor, **Physica B. (An Elsevier Journal)** 406 (2011) 877-884.
2. **A.Mohanta** and D. Behera, Magnetic field dependence of pinning effect in BaZrO_3 doped $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ ceramic superconductor, **Solid State Communication. (An Elsevier Journal)** 150 (2010) 1325-1328.
3. **Annapurna Mohanta** and Dhruvananda Behera, Fluctuation Induced Magneto-Conductivity Studies in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}+\text{xBaZrO}_3$ Composite high- T_c Superconductors. **Physica C. (An Elsevier Journal)** 470 (2010) 295-303.
4. **Annapurna Mohanta** and Dhruvananda Behera, Temperature Response of BaZrO_3 . Inclusion to $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ Probed by Magneto-Transport Measurements. **Journal of Superconductivity and Novel Magnetism. (A Springer Journal)** 23 (2010) 275-283.
5. **A.Mohanta** and D. Behera, Thermally Activated Flux Creep and Current Conduction in YBCO + BZO Composites, **International Journal of Modern Physics B. (World Scientific Journal)** 25 (2011) 1-12

LIST OF PROGRAMME PARTICIPATIONS

1. Participated in the Online “**GURU DAKSHTA: 2nd Faculty Induction Programme (FIP)**” Held from **17th Nov to 16th Dec 2020**, UGC Sponsored Guru Dakshata Faculty Induction Programme, *At- UGC-Human Resource Development Centre University of Allahabad.*
2. Participated in the Online Two Week Inter-disciplinary Refresher Course/Faculty Development Programme on “**MANAGING ONLINE CLASSES & CO-CREATING MOOCS 6.0**” Held from **05th to 19th July 2021**, under the aegis of Ministry of Education Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching, *At- Teaching Learning Centre, Ramanujan College, University of Delhi.*
3. Participated in the “**INDUCTION TRAINING PROGRAMME FOR OES (GROUP-A) LECTURERS**” Held from **24th Jan to 07th Feb 2018**, under UGC- HRDC *At- Utkal University, Vani Vihar, Bhubaneswar.*
4. Participated in two days Seminar organised by *Department of Production Engineering, VSSUT, Burla* on “**SUSTAINABLE AND DIGITAL MANUFACTURING TOWARDS INDUSTRY 4.0**” held on **10th -11th Sept 2020** under sponsorship of *TEQUIP-III.*
5. Participated in two days Seminar organised by *Department of Physics and Astronomy, NIT, Rourkela*, on “**DEVELOPING SCIENTIFIC LITERACY IN COMBATING SUPERSTITIONS AND BLIND BELIEFS**” held on **18th -19th March, 2017** under sponsorship of *TEQUIP-II.*
6. Participated in two days Seminar organised by *Department of Ceramic Engineering, NIT, Rourkela*” on “**CHALLENGES AND OPPORTUNITIES IN BIOCERAMIC MATERIALS IN ORTHOPEDIC AND DENTAL APPLICATIONS : COBMODA-2017**” held on **29th -30th March 2017** under sponsorship of *TEQUIP-II.*