

# Faculty Profile

## Santipur College

### Department of Physics

#### General Information



|                        |  |
|------------------------|--|
| Name                   | Dr Atreyi Paul   |
| Designation            | Associate Professor  |
| Date of joining        | 16.12.1997   |
| Address                | 101 Kamal Park; Birati; Kolkata-700051                           |
| Contact E-mail         | <a href="mailto:atreyibulon@gmail.com">atreyibulon@gmail.com</a> |
| Academic Qualification | M.Sc, PhD  |

#### Research And Publication

|                        |      |  |  |
|------------------------|------|--|--|
| Area of Specialization |      |  | Electronics  |
| Research interest      |      |  | Experimental Physics (L.B Film-<br>Nano Science)   |
| Paper Publication      |      |  |  |
| Sl. No.                | Date | Title  | Publisher / Other Information  |
| 1                      | 1996 | Electrical Properties of polypyrrole and N—methyl pyrrole organized in magnetic stearate template in Langmuir Blodgett films | Journal of Molecular Crystal and Liquid Crystal<br>Publisher: Taylor & Francis<br>289,issue1, 265<br><a href="https://doi.org/10.1080/1058725960804">https://doi.org/10.1080/1058725960804</a> |
| 2                      | 1996 | Electrical conduction of soluble poly(o-methoxy aniline) organized in  | Solid State Communication<br>99 no 9633-639<br><a href="https://doi.org/10.1016/0038-1098(96)00194-9">https://doi.org/10.1016/0038-1098(96)00194-9</a>   |

|   |                               |  |   |
|---|-------------------------------|--|---|
|   |                               | Langmuir -Blodgett films   |   |
| 3   | 1995                          | Electrical properties of organized assemblies of polypyrrole fabricated chemically on copper stearate template       | Journal of Physics D<br>Publisher: IOP(Institute of Physics)<br>28,899<br>DOI 10.1088/0022-3727/28/5/011  |
| 4   | 1994                          | Electrical properties of organized assemblies of polypyrrole-N-methylpyrrole in Langmuir-Blodgett film               | Solid State Communication<br>Publisher: Elsevier<br>89,363<br><a href="https://doi.org/10.1016/0038-1098(94)90600-9">https://doi.org/10.1016/0038-1098(94)90600-9</a> |
| 5   | 1993                          | Electrical conduction of Polypyrrole in Langmuir - Blodgett films fabricated chemically on ferric stearate substrate | Thin Solid Film.<br>Publisher: Elsevier<br>227,105<br><a href="https://doi.org/10.1016/0040-6090(93)90193-5">doi.org/10.1016/0040-6090(93)90193-5</a>                 |
| <b>Talks/ Paper or Poster Presentations/ Chairing Sessions/ Seminar/ Webinar/ Workshop/ RC/ OP/ Short term Course/ Any Other attended</b> |                               |  |   |
| Sl. No.   | Date                          | Title  | Publisher/ Other information  |
| 1   | 12.08.1996<br>-<br>12.08.1996 |  | Paper Published in Proceedings<br>Condense matter days<br>Agartala Tripura<br>Tripura University  |
| 2   | 11.09.1995<br>-<br>11.09.1995 |  | Paper Published in Proceedings of<br>7-th International conference on Organised<br>Molecular Films<br>Numana(Ancona) Italy  |

## Institutional Responsibilities

| Portion of syllabus allotted |                               |   |
|------------------------------|-------------------------------|---|
| Semester                     | Major/ Minor/ SEC/ MDC/ Other | Topic allotted  |
| Semester 1                   | Major                         | Electrical circuits and Network skills<br>Basic Electricity Principles<br>Understanding Electrical Circuits |

|  |                                 |  |
|--|---------------------------------|--|
| Semester 2                             | Major                           | Basic Instrumentation skills<br>Basics of Measurement<br>Electronic Voltmeter<br>Cathode Ray Oscilloscope: Block diagram of basic CRO<br>Use of CRO            |
| Semester 3                             | Major                           | Renewable energy and energy harvesting<br>Solar energy<br>Wind Energy harvesting<br>Electricity and Magnetism Practical  |
| Semester 4                             | Major                           | Thermal Physics<br>Introduction to Thermodynamics<br>Second Law of Thermodynamics<br>Entropy<br>Maxwell's Thermodynamic Relations<br>Thermal Physics Practical |
| Semester 5                             | Major                           | Statistical Mechanics<br>Classical Statistics<br>Classical Theory of Radiation<br>Quantum Theory of Radiation  |
| Semester 6                             | Major                           | Solid State Physics<br>Elementary Lattice Dynamics<br>Magnetic Properties of Matter<br>Nano Materials and Application<br>Electron Transport                    |
| <b>Administrative Responsibilities</b> |                                 |  |
| Sl.No.                                 | Position                        | Remark   |
| 1                                      | IQAC Coordinator                | 2019-2022  |
| <b>Institutional Committees</b>        |                                 |  |
| <b>Sl. No.</b>                         | <b>Name of Committee</b>        | <b>Member / Convener</b>   |
| 1                                      | IQAC                            | Member   |
| 2                                      | NAAC                            | Member   |
| 3                                      | Library                         | Member   |
| 4                                      | Gender & Sexual Harassment Cell | Convener   |

