CurriculumVitae

**Chakradhar Rajowar**

**Associate Professor Bankura Sammilani College, Kenduadihi, Bankura,**

**West Bengal – 722102, India.**

**Email:** [**crajowar001@gmail.com**](mailto:daspriyam3@gmail.com)

**C/o Madan MohanRajowar**

**Vill: -Sringarpally**

**P.O.–Kenduadihi,**

**Dist. – Bankura,**

**West Bengal–722102, India.**

**Phone-+91-9434882092 (M)**

**Academic Qualification**

# Total Number of Teaching Experience : 18 years

* **Positions held:**
  + **Associate Professor, D**epartment *of Physics, Bankura Sammilani College, Bankura –* ***October 2006 – till date****.* **(18 years 3 months)**
* **Academics:**
  + **Master of Science (M.Sc. in Physics),** Burdwan University*,Burdwan ,India***, 2004**, (Percentage of marks 62.5%).
  + **Bachelor of Science (B.Sc.in Physics),** JK College, Burdwan university*, Burdwan, India***, 2002**, (Percentage of marks: 54.5%).
  + **H.S. (Science),** *Napara high school,Napara, Purulia,W.B., India***, 1998**, (Percentage of marks:59.4%).
  + **Madhyamic,** Gopalnagar Ashutosh High School, Purulia, West Bengal, I*ndia*, **1999**, (**Percentage of marks: 57.5%**).

**Research Interest**

* **Soliton based Fiber Optic Communication system**

**List Of publication**

1. **Chakradhar Rajowar,** Sagarica Mandal, Abhhijit Sinha “Some study on dark and bright optical solitons in a real system with periodically distributed dispersion and nonlinearity” **Optoelectronics Letters, (2022).** <https://doi.org/10.1007/s11801-022-2075-9>
2. **Chakradhar Rajowar,** Abhhijit Sinha “A new study on integrated chirped solitary waves in an asymmetrical optical fibre” **Indian Journal of Physics, (2023)** <https://doi.org/10.1007/s12648-023-02643-w>
3. **Chakradhar Rajowar,** Abhhijit Sinha "Soliton in an inhomogeneous highly dispersive medium with Cubic-Quintic-Septic-Nonical nonlinearity law" **Journal of Applied Nonlinear Dynamics (2023)** DOI-10.5890-JAND.2023.09.010.aspx.
4. Abhhijit Sinha **Chakradhar Rajowar,** “Study on chirped Dark, bright solitons conversion and the effect of intermodal dispersion, self-frequency shift, and self-steepening effect on the chirping of bright, dark, and kink solitary waves**”** **Journal of Nonlinear Optical Physics & Materials** (2023)<https://doi.org/10.1142/S021886352350073X>
5. Sagarica Mandal, **Chakradhar Rajowar**, Abhijit Sinha“ A study on Dark Bright Soliton Conversion and Its Application in Periodically Distributed Optical fiber” **Pramana (2023)**<https://doi.org/10.1007/s12043-023-02664-4>
6. **Chakradhar Rajowar,** “Soliton In A Highly Dispersive And Highly Nonlinear Media” **NeuroQuantology** (2019) doi: 10.14704/nq.2019.17.10.2576

**List of Book and Book Chapter**

**1. Chakradhar Rajowar,** (Book) Digital system and Application, New Book Agency, (2017)

**2. Chakradhar Rajowar,** Abhijit Sinha (Book Chapter), Optical Soliton in ultra high speed communication, 2021,(Recent advances in Arts, Science and Social Science), VHN Sentikumara Nadar College, Tamilnaru, 978-81-951746-3-8, july (2021).

1. **Chakradhar Rajowar,** & Sinha, A. (2024). “A study on dark and bright type solitary waves in a nonlinear medium in real situation and their conversion”, (NSESD) 2024, Kazi Nazarul University, Asansol, west Bengal, India.

**Invited Talks**

1. *Soliton in Fiber Optics Communication, National webinar on “Mathematics for computing: Recent Trends, Indas Mahavidyalaya, Bankura, India* ( 2021).

**Computational Skill**

* + OperatingSystems: **Linux** and **Windows**
  + ProgrammingLanguages: **PYTHON**, and **MATLAB**.
  + Software Packages: **Mathematica**, **Gnuplot, Latex** etc.