



Aritra Nandy
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Male
UG Fourth Year(B.Tech)
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OBJECTIVE

To acquire a challenging position in a top notch engineering environment utilizing my chemical engineering knowledge, resourcedul experiences and my analytical skills to contribute to the enhancement and growth of the organisation.

Examination	University	Institute	Year	CPI/%
Graduation	RGPT	Rajiv Gandhi Institute of Petroleum Technology	2021	8.27
Intermediate/+2	C.B.S.E.	Nalanda Academy	2016	85
Matriculation	I.C.S.E.	Don Bosco Liluah	2014	90.2

INTERNSHIP /ACADEMIC PROJECTS

1. Understanding the origin and photo luminescence properties of carbon Nano dots with.
[2018-19]

DOI: [10.1021/acs.jpcc.9b02428](https://doi.org/10.1021/acs.jpcc.9b02428)

Guide: *Dr. Debashis Panda*

Nano-Bio Spectro Lab, RGPT

- The work included the synthesis of carbon Nano dots via various laboratory methods.
- The properties and changes are studied and analyzed using various scientific equipments such as UV-Vis Spectrometer, Fluorimeter, FT-IR, DLS and others.
- Successfully synthesized red, green and blue fluorophores using solvothermal methods.

2. Website Development
[2018]

Guide: *Science and Technical Committee, RGPT*

- Led a team that worked on a website development project for winter school,2018.

3. Natural Convection on isothermal Surfaces
[Oct 2018- Nov 2018]

Guide: *Dr. Milan Kumar*

- Studied the process of heat transfer via natural convection and analyzed the data using MSExcel.

3. Designing of a dehydration unit
[Oct 2019 – Nov 2019]

Guide: *Dr. U. Ojha*

- Designed a dehydration unit that utilizes the unique desiccant properties of ionic liquids.

4. Optimization of reactor Data

[Dec 2019 - Jan 2020]

Guide: Dr. S.K. Lahiri

- Studied industrial reactor data and constructed a generalized equation for the reactor
- Optimized the reactor data to obtain the best operating conditions for the reactor formaximizing yield using genetic algorithm.

5. ANN Modelling and optimization of commercial industrial reactors

[April – May, 2020]

Guide: Dr. S.K. Lahiri

- Practical application of artificial neural network models to actual industrial data to find out its optimum operating conditions

AWARDS AND ACHIEVEMENTS

- Published a research paper in the American Chemical Society's, **The Journal Of Physical Chemistry C**. "**Connecting the Dots of Carbon Nanodots: Excitation (In)dependency and White-Light Emission in One-Step**" DOI: **10.1021/acs.jpcc.9b02428**
- Cleared JEE Mains and JEE Advanced 2017, and was placed in the top 0.5 percentile
- Was awarded first prize in the winter school 2018 organized by Science and Technical Committee, RGIPT for **website development**.
- Awarded 2nd prize for **poster presentation** on Carbon Nanodots at **Urjotsav 2020**.
- Gained teaching experience of 60+ hours as a **teaching volunteer**

TECHNICAL SKILLS

- Software Skills
AutoCAD, Origin, Microsoft Excel, ImageJ, MATLAB
- Computer Languages
C, Java, C++, MATLAB, HTML
- Technical skills
Membrane Preparation, Chromatographic Separation, Nano Particle Synthesis

POSITION OF RESPONSIBILITY

- **Volunteer Teacher** at ARPAN Social Service Club, RGIPT. [2017-18]
- Event Management Executive IICHE student chapter, RGIPT [2018-19]
- Publicity committee co-head at Urjotsav [2020]

WORKSHOP AND CONFERENCES

- Workshop on **Data Science** organized by the Science and Technical Committee, RGIPT.
- Among the 5 students selected to attend **Academia-Industry Interface Program at IOCL** Allahabad Terminal 2019.
- Workshop on **Internet Of Things** organized by the Science and Technical Committee, RGIPT.