

# Curriculum Vitae

## SAMEER RAI

Project Assistant,  
School of Engineering and Technology, Institute of Research and Development,  
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## CAREER OBJECTIVES

I want to secure a responsible career opportunity to fully utilize my training and skills while making a significant contribution to society's betterment. I am a highly organized and hard-working individual looking for a responsible position and seeking to gain as much practical experience as possible.

## TECHNICAL SKILLS

I can operate sophisticated scientific instruments like electrospinning units, powder-XRD, UV-Visible spectrophotometers, FTIR, DSC, and DLS. I possess analytical knowledge of SEM, TEM, XPS, BET, and PSA. Can fluently work on Origin and ChemDraw software.

## EDUCATION

|                                                                                                                                                                                                                                                                                                                                      |             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| <b>M.Sc. (Nanotechnology)</b><br>School of Nano Sciences,<br><b>Central University of Gujarat,</b><br>Gandhinagar, Gujarat, India<br>Dissertation topic: <b>Synthesis of g-C<sub>3</sub>N<sub>4</sub> Nanostructures for the Photocatalytic Degradation of Various Organic Pollutants.</b><br>The percentage obtained- <b>75.83%</b> | <b>2022</b> |
| <b>B.Sc. (Chemistry, and Zoology)</b><br>Rajkiya Snatkottar Mahavidyalaya, Obra,<br><b>Mahatma Gandhi Kashi Vidyapith,</b><br>Varanasi, Uttar Pradesh<br>The percentage obtained- <b>63.22%</b>                                                                                                                                      | <b>2020</b> |
| <b>Intermediate</b><br><b>Obra Intermediate College,</b><br>Obra, Sonbhadra, Uttar Pradesh, India<br>The percentage obtained- <b>77.4%</b>                                                                                                                                                                                           | <b>2016</b> |
| <b>Matriculation</b><br><b>Sacred Heart Convent School,</b><br>Obra, Sonbhadra, Uttar Pradesh, India                                                                                                                                                                                                                                 | <b>2014</b> |

The percentage obtained- **81.7%**

## RESEARCH PROJECT

**Project title: Development of Nanotechnology-enabled Body Armor.**

**Principal Investigator: Dr. Harshad Patel**

Campus Director (Guwahati Campus, NFSU) & Assistant Professor,  
National Forensic Sciences University, Gandhinagar, Gujarat.

## INTERNSHIPS AND PROJECTS

**B.S. Abdur Rahman Crescent Institute of Science and Technology**

Course title- Recent Advances in chemical sciences

01/07/2021-31/07/2021

Project title- **Synthesis of herbal medicine.**

**IIT Kharagpur**

Course title- Advanced proteomics

10/05/2021-09/06/2021

Project title- **Biomarker for early sensing of lung and breast cancer.**

**IIT Kharagpur**

Course title- Biochemistry

10/05/2021-09/06/2021

Project title- **Recent report on epigenetic studies of breast cancer.**

## SEMINAR DELIVERED

**B.S. Abdur Rahman Crescent Institute of Science and Technology**

Topic- **Synthesis of nano-drug for treatment of cardiovascular diseases.**

Won **1<sup>st</sup> prize** for the seminar presentation

## CONFERENCES AND WORKSHOPS

**Institute of Pharmaceutical Research, GLA University**

**2<sup>nd</sup> International Conference**

The topic of the conference: **Innovation in chemical, biological and pharmaceutical sciences (ICBPS-2022).**

Duration: 18/11/2022-19/11/2022

**Shivaji College, University of Delhi**

**Hands-on Training Workshop**

The topic of the workshop: **Green synthesis of nanoparticles and their biomedical application.**

Duration: 04/02/2022-06/02/2022

## FIELD OF INTEREST

My research interest encompasses various aspects of nanotechnology involved in defence, energy harvesting, and environmental remediation applications. During my dissertation work, I worked on the synthesis and characterization of photocatalytic materials by various methods, and a comparative study was conducted to analyze the photocatalytic degradation of different dyes by the

samples. Also, I have a keen interest in carbon nanomaterials and their application in defence-related nanomaterials.

## **DECLARATION**

I hereby declare that the details furnished above are true and correct to the best of my knowledge and belief.

**Sameer Rai**