

# Kasturee Nayak

## Curriculum Vitae

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IISER Kolkata, Nadia  
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### Academic Profile

- 2019 **PhD**, *INSPIRE fellow*, IISER Kolkata, Supervisor: Prof. Dr. Priyadarsi De.
- 2013-2018 **Five year int. bs-ms dual degree with major Chemistry**, Indian Institute of Science Education and Research Kolkata, cgpa: **8.1/10**.
- 2011-2013 **Higher Secondary**, Odisha Council of Higher Secondary Education, BJB junior college, Percentage: **85 %**.
- 2011 **Secondary**, Odisha Board of Secondary Education, Cuttack, Percentage: **92.8 %**.

### Research Interest

My research is to synthesize biodegradable polymer and tune their structure to modify their properties.

### Master's Dissertation

- Title **Effect of low temperature processable electron transport layer and organic based hole transport layer on perovskite solar cell**, Indian institute of science education and research Kolkata.  
Supervisor: Dr. Sayan Bhattacharyya

### Project

- 1 **Kasturee Nayak**, *Synthesis of 2D graphitic materials from bio-waste and its application in water-splitting* (Supervisor: Dr. Sayan Battacharyya, Indian institute of science education and research Kolkata)  
(project) 1st July-October 2018.
- 2 **Kasturee Nayak**, *Isolation of gallic acid from flavonoids obtained from tea and separation of theaflavins from black tea*. (Supervisor: Mr. Deepak Mhasavade, Hindustan Unilever limited, Bangalore)  
(Trainee) 1st August 2017- 26th October 2017.
- 3 **Kasturee Nayak**, *Peptide nucleic acid(PNA) synthesis*. Supervisor: Dr. Nagendra Sharma, National institute of science education and research, Bhubaneswar, India

(Summer project), June-July 2016 .

- 4 **Kasturee Nayak**, *Special theory of relativity*. Supervisor: Dr.Sanjay Kumar swain, National institute of science education and research, Bhubaneswar, India

(Summer project), May-July 2014 .

## Scholastic Achievements

- Short listed for **INSPIRE Fellowship** for gaining admission into doctoral (PhD) program in the any recognized University/ Institute of India.
- Qualified CSIR UGC (NET) exam held during June 2017
- Received INSPIRE Fellowship (Innovation in Science Pursuit for Inspired Research), from Department of Science and Technology, Government of India (2013- 2018). It aims to engage young talents for the study of Science and Technology and pursue research as a career. This prestigious fellowship is awarded to a very few students based on their academic excellence.
- Admitted to IISER – Kolkata through state Board-2013. (**All India Ranked in top 1 percentile**)
- Pathani Samanta Mathemtics Scholarship 2011
- Secured 1st position in National Means-cum-Merit Scholarship (NMMS) 2010.
- NRTS (National Rural Talent Scholarship 2009)

## Instrument experienced

- 1 **Fluorescence Spectrometer (Horiba Jobin-Yvon Fluoromax-3, 4 and Fluorolog system), UV-Vis Spectrophotometer (Jasco V-670 spectrophotometer), Field emission scanning electron microscopy (Carl Zeiss SUPRA 55VP FESEM), energy disperssive spectroscopy(EDS), Transmission electron microscopy(TEM), IR-Spectrometer, Powder XRD instrument, Dynamic Light Scattering(DLS), Potentiostat, Nuclear magnetic resonance..**

## Personal Details

Date of birth 1 july 1996

Gender Female

Nationality Indian

Languages English, Odia & Hindi