



**Dr. Prakash Chandra**  
**Assistant Professor**  
**B.Sc., M.Sc., Ph.D.**  
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### **Brief profile:**

Dr. Prakash Chandra has been with PDPU Gandhinagar SOT Since December 2019. He has worked as a research associate at PPISR Bengaluru, IIT Indore, and UCL IMCN Belgium before to joining PDPU. He has over three years of experience doing research in the area of homogeneous and heterogeneous catalysis for selective organic transformations. He previously completed Ph.D. under the supervision of Dr. Shubhangi Umbarkar on the synthesis and use of molybdenum-based homogeneous and heterogeneous catalysts for organic compound oxidation. He also has expertise with heterogeneous catalysts for waste water treatment. He is currently supervising two Ph.D. students: **Khyati Mistry** and **Nisha Oad**.

### **Areas of Interest:**

Homogeneous, Heterogeneous catalysis and Nanomaterials in catalysis. Synthesis of the first row of the transition metal-based nano-catalysts using single-source molecular precursors and applications in catalytic organic transformations. Synthesis of organic-inorganic hybrid materials and their applications in multifarious applications in catalysis photocatalysis for organic transformations including pharmaceuticals, fine chemicals. Furthermore, he is currently exploring electrochemistry (sensing, hydrogen generation, supercapacitors) and mechanical properties (tribological studies).

## **Khyati Mistry**

B.Sc. Chemistry (2016)

M.Sc. Analytical Chemistry (2018)

Ph.D. (pursuing)

**Email:** [khyati.mphd20@sot.pdpu.ac.in](mailto:khyati.mphd20@sot.pdpu.ac.in)

**Experience:** Khyati Mistry has Worked as Executive (QC-GLP) for 2.9 years at Torrent Pharmaceutical Limited.

**Fellowship:** **Scheme of developing High Quality Research (SHODH) – Education Department, Gujarat State**

She is pursuing Ph.D. under the guidance of Dr.Prakash Chandra since December, 2020. She is working on Synthesis of Heterogeneous catalyst and it's application on Sensing of food colors, biosensors and catalysis. She is also working on Hydrogen production using 2D materials as electrode.





## **Nisha Oad**

B.Sc. Chemistry (2018)

M.Sc. Organic Chemistry (2020)

G-SET Qualified (chemical science)

Ph.D. (pursuing)

Email: [nisha.ophd21@sot.pdpu.ac.in](mailto:nisha.ophd21@sot.pdpu.ac.in)

**Fellowship: From Institute (PDEU)**

Nisha Oad is pursuing Ph.D. under the guidance of Dr. Prakash Chandra since September, 2021. She is working on Synthesis of organic-inorganic hybrid materials for energy storage, scintillation, catalysis and optoelectronic devices. She is working in interdisciplinary branch chemistry and physics.



**Rohit M. Lakhani**

B.Sc. Chemistry (2020)

M.Sc. Organic chemistry (pursuing)

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**Hardik A. Nasit**

B.Sc. Chemistry (2020)

M.Sc. Organic chemistry (pursuing)

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