

**NAME: KSHITIJ ASIT ACHARYA**

**Current Position:** DAE Doctorate Fellow in the Reactor Physics Design Division at Bhabha Atomic Research Centre, Mumbai (BARC), under the aegis of Homi Bhabha National Institute (HBNI).

**RESEARCH INTEREST**

I work at intersection of Physics, Engineering and Computational science to solve reactor engineering problems.

**CURRENT RESEARCH PROBLEMS**

- Fuel Performance modelling of nuclear reactors
- Multiphysics simulation of nuclear reactors
- Uncertainty Quantification and Sensitivity Analysis

**EDUCATION**

2022 PhD Engineering Sciences: Nuclear Engineering (HBNI)

GATE 2019 Mechanical Engineering: 92 % percentile.

2021 M.Tech Nuclear Science and Engineering (PDEU, Gandhinagar) with 9.93 CGPA

2017 B.E. Mechanical Engineering (Gujarat Technological Uni.) with 8.34 CGPA

**PROFESSIONAL EXPERIENCE**

- Graduate research/Teaching Assistant at PDEU (2021-2023) on metal additive manufacturing for the nuclear reactor systems.
- Lecturer in the Mechanical Engineering Department at Silver Oak College of Engineering and Technology, Ahmedabad (2017-2018)

**SCHOLARSHIP AND AWARDS**

- University scholarship to study at Kansas State University, USA during B.E.
- Selected for DST Young scientist award - 2022.

**EXTRA CIRICULAR ACTIVITY**

- V.P. of INMM Student Chapter at PDEU
- Committee member of SPIC MACAY PDEU student chapter
- Indian Classical Musician: Vocalist and Instrumentalist (SAROD)

**PUBLICATIONS (with links)**

Present Affiliation: DDFS Research Scholar

Nuclear Engineering

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[kshtjacharya074@gmail.com](mailto:kshtjacharya074@gmail.com)

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**Key Technical Skills**

LPBF-Metal Additive Manufacturing

Metallurgical characterization of materials

Computational modelling skills

**Programing Language**

C++

Python

**Tools**

MATLAB

OpenFOAM

**Links**

C.V

Google Scholarship

Research Gate

Thesis/Symposis

**Address for Communication**

506, NBH, BARC Training School Complex,  
Anushakti Nagar, Mumbai, Maharashtra  
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