

## JAYAMALYA JENA

PhD - Machine Design (*Pursuing*)  
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### RESEARCH INTERESTS

Fracture Mechanics, Numerical Simulations, XFEM

### EDUCATIONAL QUALIFICATIONS

EXAMINATION	YEAR OF PASSING	NAME OF UNIVERSITY/ BOARD	CGPA/CPI/% MARKS	GRADE/ DIVISION
M.Tech (Industrial Engineering)	2019	VNIT Nagpur	8.91	I <sup>st</sup>
B.Tech (Mechanical Engineering)	2015	BPUT, Odisha	8.31	I <sup>st</sup>
12 <sup>TH</sup>	2011	CHSE, Odisha	71%	I <sup>st</sup>
10 <sup>TH</sup>	2009	BSE, Odisha	72%	I <sup>st</sup>

### CURRENT TOPIC OF STUDY

Fracture Mechanics study in cracked Piezoelectric material.

### PUBLICATIONS:

- Sandeep Rathor, Jayamalya Jena, Rashmi Uddanwadikar, Ashutosh Apte, Finite Element Analysis of Type I and Type II Fracture with PFN Implant—A Comparative Study, Proceedings of ICAME-2020, VNIT Nagpur. (**Conference**)

### SUMMER TRAINING:

- *Organization* – (1) Smelter Plant, NALCO, Angul, Subject-Industrial Training (May-2014 to June-2014)  
(2) CTTC, Bhubaneswar, Subject-CATIA Design Software Training (May-2013 to June-2013)

### TEACHING ASSISTANTSHIP

(At IIT Roorkee)

- Mechanics of Material Lab
- Engineering Drawing Tutorial

### TECHNICAL SKILLS

- Design and Modeling Software – CATIA, SolidWorks, Hyper mesh, G-mesh
- Analysis Software – ANSYS, ABAQUS, COMSOL
- Programming Languages – MATLAB, C++

### AWARDS/SCHOLARSHIPS

- Junior Research Fellowship (JRF) funded by DST at IIT Roorkee (2019).
- Ministry of Human Resource & Development (MHRD) scholarship to pursue Masters at VNIT Nagpur (2017).