



## Dr Sambit Kumar Parida

E-mail: [skparida@niamt.ac.in](mailto:skparida@niamt.ac.in)

Profile URL :

<https://vidwan.inflibnet.ac.in/profile/549617>

Orcid Id: 0000-0003-1596-8754

Phone: , 6202450939

Address: Ranchi ,Jharkhand,India - 834003

## Expertise

---

### Mechanical Engineering

Composite structure, fracture mechanics, System design, Laser cladding,

## Work experience

---

1. National Institute of Advanced Manufacturing Technology (NIAMT)  
2016 — Present

Assistant Professor (Grade-II)  
Ranchi

2. KIIT Deemed to be University, Bhubaneswar 2014 — 2016

Assistant Professor (Grade-I)  
Khurda

## Education

---

1. Ph. D. - 2015

Indian Institute of Technology Bhubaneswar

M. Tech. - 2010

Indian Institute of Technology Kharagpur

## Honours and Awards

---

1. Institute Scholar Fellowship -

Indian Institute of Technology Bhubaneswar

## Research Project

---

### Reengineering of Maize sheller

Role: Team Leader

Year 2012, Amount 1000000

### Development of Fixtures for Blade Adaptor Machining

Role: Co- Investigator

Year 2003, Amount 200000

## Membership In Professional Bodies

---

1. SAE, 2013

Academic member

## Membership In Committees

---

1. Hostel Management Committee (JMC), 2024

Waden

2. UHV, 2024

2. Chairman

# Publication

---

- 1. Design and development of IoT enabled modular melting, pouring, and, stirring system for casting of non-ferrous alloys and sustainable aluminum matrix composites (AMCs)**  
International Journal on Interactive Design and Manufacturing (IJIDeM), Year 2024
- 2. Strength evaluation of alkali treated Sabai Grass (Eulaliopsis binata) fibers and its reinforced composites**  
Shambhu Kumar, Ratnakar Das, Sambit Kumar Parida  
Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, Volume 238, Year 2024, Pages
- 3. 3D FE adhesion failure analyses of adhesive bonded single lap joint made with functionally modulus graded curved adherends**  
S. K. Parida, A. M. Murmu, Vemireddy Hari, VS. Ayar, R. Das  
International Journal on Interactive Design and Manufacturing, Volume 18, Year 2024, Pages 481-488
- 4. A study on drilling performance of fabricated sabai fiber (Eulaliopsis binata) /epoxy composite laminates**  
S.K. Kumar, S., Das, R., S.K. Parida  
International Journal on Interactive Design and Manufacturing, Volume 18, Year 2024, Pages
- 5. Potential of grass families as reinforcement material in composites: A review**  
Kumar S.;Das R.;Parida S.K.  
AIP Conference Proceedings, Volume 2764, Year 2023
- 6. Experimental study on the quality of drilled holes in Sabai grass reinforced composites**  
Materials Today: Proceedings, Year 2023
- 7. Effect of using fibre reinforced epoxy adhesive on the strength of the adhesively bonded Single Lap Joints**  
Behera R.K.;Parida S.K.;Das R.R.  
Composites Part B: Engineering, Volume 248, Year 2023
- 8. Evaluation of laser cladding of Ti6Al4V-ZrO2-CeO2 composite coating on Ti6Al4V alloy substrate**  
Murmu A.M.;Parida S.K.;Das A.K.;Kumar S.  
Surface and Coatings Technology, Volume 473, Year 2023, Pages
- 9. Evaluation of in-situ synthesised titania-zirconia-boron carbide composite cladding on Ti6Al4V substrate using continuous wave fibre laser**  
Murmu A.M.;Parida S.K.;Das A.K.

10. **Effect of pre-embedded adhesion failures and surface ply delaminations on the structural integrity of adhesively bonded single lap joints made with curved laminated FRP composite panels**  
Behera R.K.;Parida S.K.;Das R.R.  
International Journal of Adhesion and Adhesives, Volume 108, Year 2021, Pages 102887
11. **Three-dimensional FE Model for Stress Analysis of Adhesively Bonded Single Lap Joints with Hard Steel Adherend**  
Behera R.K.;Parida S.K.;Das R.R.  
Lecture Notes in Mechanical Engineering, Volume , Year 2021, Pages 523-532
12. **Synthesis and Characterization of Ti6Al4V-Nano-ZrO<sub>2</sub> Composite Cladding on Ti6Al4V Substrate Using Fiber Laser**  
Murmu A.M.;Parida S.K.;Das A.K.  
Journal of Materials Engineering and Performance, Volume 30, Year 2021, Pages 1748-1758
13. **3D and 4D Printing in Industry 4.0: Trends, Challenges, and Opportunities**  
Springer Proceedings in Materials, Year 2021
14. **Finite Element Analysis of Buckling, Free Vibration and Flexure of Clamped Laminated Composite Plates in Variable Thermal Environment**  
Behera R.K.;Sharma N.;Parida S.K.  
Lecture Notes in Mechanical Engineering, Volume , Year 2020, Pages 1151-1161
15. **Small delamination detection in carbon fibre reinforced polymer composite beam by NDT and vibration analysis**  
Nayak, Smaranika ; Pattnaik, Swetansu ; Panigrahi, Isham ; Nayak, Rameshkumar ; Parida, Sambit Kumar  
Indian Journal of Engineering and Materials Sciences, Volume , Year 2020, Pages
16. **Water absorption and mechanical properties of Sabai yarn in FRP composite**  
Kumar S.;Das R.;Parida S.K.  
Materials Today: Proceedings, Volume 26, Year 2019, Pages 1610-1615
17. **3-D interfacial stress analysis of adhesively bonded curved laminated FRP composite single lap joint**  
Materials Today: Proceedings, Year 2019
18. **About the design, development of an automated SMAW setup and the weldment analysis in air and wet working environment**  
IOP Conference Series: Materials Science and Engineering, Year 2019
19. **Effect of cenosphere filler on the hardness and impact strength of wild cane fibre mat reinforced laminated composites**  
IOP Conference Series: Materials Science and Engineering, Year 2019

20. **3-D interfacial stress analysis of adhesively bonded curved laminated FRP composite single lap joint**  
Ranjan K. Behera , S.K. Parida , R.R. Das  
Materials Today: Proceedings, Volume , Year 2019, Pages
21. **About the design, development of an automated SMAW setup and the weldment analysis in air and wet working environment**  
: S B Reyaz and S K Parida  
IOP Conference Series: Materials Science and Engineering, Volume 653, Year 2019, Pages 012039
22. **Effect of agglomerated zirconia-toughened mullite on the mechanical properties of giant cane fiber mat epoxy laminated composites**  
Pruthwiraj Sahu, Sambit Kumar Parida and Sisir Mantry  
Structural Engineering and Mechanics, Volume 70, Year 2019, Pages 233-243
23. **Effect of the aspect ratio of the pre-existing rectangular adhesion failure on the structural integrity of the adhesively bonded single lap joint**  
R. K. Behera, S.K. Parida, R.R. Das  
Journal of Adhesion Science and Technology, Volume 33, Year 2019, Pages 2093-2111
24. **Three-dimensional adhesion failure analysis of the single lap joint having pre-embedded circular defects**  
R. K. Behera, S.K. Parida, R.R. Das  
The Journal of Strain Analysis for Engineering Design, Volume 54, Year 2019, Pages 2093-2111
25. **Evaluation of hardness and wear behavior of laser cladding zirconia-alumina-titania ceramic top coating on pure Ti6Al4V**  
Murmu A.M.;Kumar S.;Parida S.K.;Das A.K.  
Materials Today: Proceedings, Volume 26, Year 2019, Pages 1103-1107
26. **Effect of Material Anisotropy on Delamination Damage in Adhesive Bonded Lap Shear Joints Made with Curved Laminated FRP Composite Panels**  
Parida S.;Pradhan A.  
Iranian Journal of Science and Technology - Transactions of Mechanical Engineering, Volume 40, Year 2016, Pages 275-287
27. **3D finite element analysis of stress distributions and strain energy release rates for adhesive bonded flat composite lap shear joints having pre-existing delaminations**  
Parida S. K.;Pradhan A.  
Journal of Mechanical Science and Technology, Volume 28, Year 2014, Pages 481-488
28. **Influence of curvature geometry of laminated FRP composite panels on delamination damage in adhesively bonded lap shear joints**  
S. K. Parida, Arun Kumar Pradhan,  
International Journal of Adhesion and Adhesives, Volume 54, Year 2014, Pages 57-66
29. **3D FE delamination induced damage analyses of adhesive bonded lap**

## shear joints made with curved laminated FRP composite panels

Arun Kumar Pradhan, S. K. Parida

Journal of Adhesion Science and Technology, Volume 27, Year 2013, Pages 1104-1121

### 30. On line monitoring and control of mobile robots using Java

Annals of DAAAM and Proceedings of the International DAAAM Symposium, Year 2006

### 31. Tensile and flexural strength evaluation of cenosphere and sabai grass(*Eulaliopsis binata*) Reinforced composite

Journal of Technology, Year 0