

## ROLAND INSTITUTE OF TECHNOLOGY

(Approved by AICTE New Delhi, Affiliated to BPUT, Rourkela, Recognized by Govt of Odisha)

Surya Vihar Golonthara-761008, Dist: Ganjam ODISHA, INDIA

### Staff Profile

Name of the Faculty: Dr. Deepak Kumar Mohapatra

Enrollment ID: T240120417

Gender: Male

Category: General

Father's Name: Golak Bihari Mohapatra

Mother's Name: Prabhati Mohapatra

Date of Birth: 27/05/1992

Date of Joining the Institution: 02/09/2024

Designation: Associate Professor

Branch: Mechanical Engineering

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Pay Scale:

Qualification:

Sl No	Name of Degree	Name of Institution	Name of Board/Univ	Specialization	Percentage Of marks	Division	Year of Completion
1	10 <sup>th</sup>	A.M.H.S, Balasore	BSE, Odisha		85.2	1st	2007
2	+2Sc	Bhadrak Junior College, Bhadrak	CHSE, Odisha		62	1st	2009
3	B Tech	BIET, Bhadrak	BPUT, Odisha	Mechanical Engineering	75.7	1st	2015
4	M Tech	VSSUT, Burla, Sambalpur	VSSUT, Odisha	Production Engineering	84.8	1st	2019
5	Ph D	VSSUT, Burla, Sambalpur	VSSUT, Odisha	Mechanical Engineering		1st	2024

Ph D guided

Experience if any

- 1.
- 2.

### Publication:

1. Deo CR, **Mohapatra DK**, Parimanik SR, Lohar K. An investigation on the mechanical, thermal and tribological properties of newly developed polyester composites made with Pistachio shell particles for industrial applications. Proc IMechE, Part L: J Materials: Design and Applications. (2024). <https://doi.org/10.1177/14644207241289924> (SCIE)

2. Mishra C, **Mohapatra DK**, Deo CR, Tripathy C. Influence of fish-scale powder addition and stacking order on mechanical and thermal properties of hybrid kenaf / glass polyester composites. Proc IMechE, Part L: J Materials: Design and Applications. (2024). <https://doi.org/10.1177/14644207241281791> (SCIE)

3. **Mohapatra DK**, Deo CR, Mishra P, Mishra C. Investigation of Mechanical Attributes and Dynamic Mechanical Analysis of Hybrid Polyester Composites for Automotive Applications. Fibers and Polymers 25(5):1893-1911 (2024). (SCIE)

4. **Mohapatra DK**, Deo CR, Mishra P, Mishra C. Influence of Load and Sliding Velocity on Abrasive Wear of Polyester Composites Reinforced with Bio Particulates as Filler Material. Trans. Indian Inst. Met. 77:2053–2062 (2024). (SCIE)

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5. **Mohapatra DK**, Deo CR, Mishra P, Dash P. Effect of pistachio shell particles on mechanical and erosion wear performance of hybrid kenaf / glass polyester composites. *Proc. Inst. Mech. Eng. Part J: Journal of Engineering Tribology*. 238:529-544 (2024). **(SCIE)**

6. **Mohapatra DK**, Deo CR, Mishra P, Dash P. Influence of pistachio shell filler addition and interply hybridization on mechanical and thermal performances of polyester composites. *J. Elastomers Plast*. 56:169-193(2024). **(SCIE)**  
Patent

7. **Mohapatra DK**, Deo CR, Mishra P, Ekka KK, Mishra C. Mechanical characterization of kenaf/glass fibre hybrid composite laminates: An experimental and numerical approach. *Proc. Inst. Mech. Eng. Part E J. Process Mech. Eng*. 237:2440–2448 (2023). **(SCIE)**

8. **Mohapatra DK**, Deo CR, Mishra P. Investigation of Glass Fiber Influence on Mechanical Characteristics of Natural Fiber Reinforced Polyester Composites: An Experimental and Numerical Approach. *Compos Theory Pract* 22: 123–129 (2022). **(SCOPUS)**

9. Tripathy C, **Mohapatra DK**, Deo CR, Dash P, Mishra P. Experimental and numerical evaluation of mechanical performances of hybrid Palmyra-Palm-Leaf-Stalk/Glass fiber reinforced polyester composites. *J. Elastomers Plast*. 56(2):141-168 (2024). **(SCIE)**

10. Behera AK, Mishra P, Mishra P, Deo CR, **Mohapatra DK**, Rout D. Effect of Impact Velocity and Impingement Angle on the Erosive Wear Behavior of Ceramic Reinforced Polymer Composites. *Trans Indian Inst Met*. 77 (2), 371-378 (2024). **(SCIE)**

11. Mishra S, Mishra P, **Mohapatra DK**, Mishra P, Mishra DK, Shadangi KP. Study of frequency dependence properties of CCTO-BT/polymer composites. *Proc Inst Mech Eng Part C J Mech Eng Sci*. 238(6):2140-2149 (2024). **(SCIE)**

#### **Book/Book Chapter:**

1. **Mohapatra DK**, Deo CR, Mishra P, Study on mechanical performances of polyester composites filled with pistachio shell particle. *Industry 4.0 with Modern Technology*, 2024; 176-181. **(CRC Press)**

2. Mishra C, Baskey HC, Deo CR, **Mohapatra DK**, Mishra P, Effect of wood dust filler on mechanical properties of polyester composite. *Industry 4.0 with Modern Technology*, 2024; 285-289. **(CRC Press)**

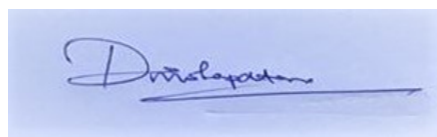
NPTEL/MOOK

FDP/SEMINAR/WS Attended and organized

Member of Professional Body

I declare that all the information furnished above are true to my knowledge.

Date: 18.12.2024



**(Dr. Deepak Kumar Mohapatra)**