

DEPARTMENT OF MECHANICAL ENGINEERING
B.I.T SINDRI, DHANBAD (JHARKHAND): 828 123

CURRICULUM – VITAE

01. Name (in block letters) : RAJEN KUMAR NAYAK
02. Father's Name : KRISHNA KUMAR NAYAK
03. Date of birth : 01-01-1974
04. Sex : Male
05. Mobile No : 9939709574
06. E-mail : rajennayak4@gmail.com
07. Address for correspondence : Department of Mechanical Engineering,
(with Pin code) B.I.T. Sindri, Sindri, Dhanbad – 828123.
08. Department : Mechanical Engineering Department
09. Current Designation & Grade : Assistant Professor; Grade Pay: 8000/-
Pay
10. Academic qualifications : Ph. D in Mechanical Engineering from
I.I.T (ISM), Dhanbad (Jharkhand)
11. Life Memberships : ISTE & Institution of Engineers



12. Higher Qualifications:

Sl.	Examination Passed	Name of college	Board / University	Year of passing	Div/Class Secured
i.	B. Tech (Mechanical)	B.I.T. Sindri, Dhanbad	Vinobabhave Univ. (Hazaribag)	1995	First Class
ii.	M. Tech (Mechanical)	B.I.T. Sindri, Dhanbad	Vinobabhave Univ. (Hazaribag)	2010	First with Distinction
iii.	Ph. D (Mechanical)	I.I.T(ISM), Dhanbad	I.I.T(ISM), Dhanbad	2017	-----

Academic Staff College Orientation / Refresher Course attended during last 10 years:

Sl.	Name of the Course/ Summer School	Place	Duration	Sponsoring agency
i.	Digital Transformation in Teaching Learning Process	I.I.T Delhi & I.I.T Mumbai	06.04.2020 to 22.04.2020 (02 weeks)	(TEQIP – 3)
ii.	Bio Energy: Technology & Transitions	NIT, Kurukshetra & Govt. Engg College Bikaner	18.05.2020 to 22.05.2020 (01 week)	(TEQIP – 3)
iii.	Green Energy Technology for Sustainable Development	NIT, Kurukshetra & Govt. Engg College Bikaner	11.06.2020 to 20.06.2020 (02 week)	(TEQIP – 3)
iv.	Recent Advances on Manufacturing (RAIM - 2018)	B.I.T Sindri	27.11.2019 to 01.12.2019 (1 week)	(TEQIP – 3)
v.	Concepts of Thermodynamics	I.I.T Kharagpur	Jul-Oct, 2022 (12 Weeks)	NPTEL Course
vi.	Applied Thermodynamics for Engineers	I.I.T Guwahati	Jul-Oct, 2022 (12 Weeks)	NPTEL Course
vii.	Quiz on Thermodynamics	MD. S A J College of Engg. Chennai	29.05.20 (01 Day)	SELF

14. Publications:

Sl.	Author's name	Title of paper	Name of journal	Year of publication	Vol. No.	Pages
i.	R.K. Nayak, S.N. Singh	Effect of geometrical aspects on the performance of jet plate solar air heater	Solar Energy, SCI	2016	137	434- 440
ii.	R.K. Nayak, S.N. Singh	Experimental Investigation of Flow and Heat Transfer in Cross and Non - Cross Flow Inline Hole Jet Plate Solar Air Heater	IJPRES	2015	2	64 - 72

iii.	R.K. Nayak, S.N. Singh	Analytical Study of Flow and Heat Transfer in Cross and Non-Cross Flow Jet Plate Solar Air Heater	HEFAT, 11 th International Conference	Held at Orlando, Florida 14-26 July, 2014	-----	-----
iv.	R.K. Nayak, S.N. Singh	Performance studies on jet plate solar air heater	ISHMT, 11 th International Conference	Held at IIT Kharagpur 28-31 Dec, 2013	-----	-----
v.	R.K. Nayak et. al	Analytical Study of Thermal Performance of a Jet Plate Solar Air Heater with The Longitudinal Fins Under the Cross Flow and Non-Cross Flow Conditions.	Frontiers in Heat and Mass Transfer ESCI / Scopus Indexed Journal)	2022	19	ISSN: 2151-8629
vi.	R.K. Nayak et. al	Performance Analysis of Longitudinal Fin Jet Plate Solar Air Heater under Cross Flow Condition.	Frontiers in Heat and Mass Transfer ESCI / Scopus Indexed Journal)	2022	19	ISSN: 2151-8629
vii.	R. Prasad, R.K. Nayak et.al	Combined Natural Convection and Surface Radiation in A Square Cavity with The Inversely Linearly Heated Opposite Side Walls.	Frontiers in Heat and Mass Transfer ESCI Scopus Indexed Journal)	2022	19	ISSN: 2151-8629
viii	R. Prasad, R.K. Nayak et.al	Experimental Investigation of the Performance of a Heat Exchanger with Triangular Baffles.	A Scopus Indexed Journal	2022	14	3511-3521
ix.	Amit Gupta, R.K. Nayak et.al	Mathematical approach and experimental validation on criteria for instability of interface between liquid droplet and water. https://doi.org/10.1007/s00033-022-01928-0	A Web of Science / ESCI / Scopus Indexed Journal	2023	----	----

x.	R.K. Nayak et. al	Effects of Geometrical and Flow Parameters on The Performance of Cross Flow Jet Plate Solar Air Heater, Frontiers in Heat and Mass Transfer.	ESCI / Scopus Indexed Journal	2023	20	ISSN: 2151-8629
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PATENT: Ultrasonic Assisted Portable Equipment for Multi-Layer Anti Reflective Coating on 14.03.2024, Design No - 410573-001 b), The Patent Office Government of India (Intellectual Property)



Signature of the faculty

HOD
Department of Mechanical Engg.