

UJJWAL KUMAR NAYAK

Assistant Professor, Deptt. of mechanical Engineering

BIT Sindri , P.O. : Sindri Institute, Sindri

Dhanbad, Jharkhand, Pin 828123

Email ID : ujjwalnayak77@gmail.com

Phone 9835723160



Education Qualification

- Ph.D.(Mechanical Engineering) From BIT Sindri/ VBU Hazaribagh.
- M Tech (Mechanical Engineering) From BIT Sindri/ VBU Hazaribagh.
- Bsc. Engg. (Mechanical Engineering) From BIT Sindri/ VBU Hazaribagh.

Date Of Joining:- 07/09/2006

Last Promotion Due:- 07/09/2019 (Associate Professor) & 07/09/2022 (Professor)

Paper Taught: * Refrigeration and air conditioning (RAC),
*Heat and mass Transfer (HMT)
*Engineering Drawing and Graphics (EDG),
* Adv. Heat and mass Transfer (adv HMT)
* Industrial Robotics,

Additional Responsibility held at present :- * P/I HMT Lab, * Asst P/I Examination

Training and short Term Courses:

| Sl No | Training Name | Institute | Period(WEEK) | Duration |
|-------|---|--------------------------|--------------|---|
| 1. | Digital Transformation in Teaching Learning Process | IIT Bombay | 2 | 6 th april to 22 nd April ,2020 |
| 2. | Green Energy Technologies for Sustainable Development | GEC Bikaner | 2 | 11-20 th June ,2020 |
| 3. | FDP For Engineering colleges on Virtual lab | NIT Surthkal& BIT Sindri | | 29 th June 2020 |
| 4. | Environmental Crisis and Sustainable Development | GEC Bikaner | 1 | 01-05 th July,2020 |
| 5. | Recent advancement in manufacturing and material processing | VSSUT Burla | 1 | 10-14 th Sep 2020 |
| 6. | Natural language processing | BIT Sindri | 1 | 06-10 Jan 2020 |
| 7. | Recent advancement in Mechanical Engineering(RAMM-2021) | BIT Sindri | 1 | 25-29 th October,2021 |

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| 8. | FDP on programme in Communication | IIm Bodh Gaya | 1 | 25Feb-04 th March,2021 |
| 9 | Electric Vehicle and simulation | Sky Rider Instution Pvt. Lmt | 1 | 08-12 th august,2022 |
| 10 | Electric Vehicle Challenges and opportunity(EVCO-22) | BIT Sindri | 1 | 22-26 th August,2022 |
| 11 | Thermal Engineering: Basic and Applied | NPTEL | 12 | Jan- April,2023 |

Publications:-

| Sl. No | Title of Paper | Journal | ISSN/ISBN No | Year Of Publication |
|--------|---|---|------------------|---------------------|
| 1 | EXPERIMENTAL INVESTIGATION OF THE PERFORMANCE OF A HEAT EXCHANGER WITH TRIANGULAR BAFFLES | I J E C S E | 1308-5581 | 2022 |
| 2 | APPLICATION OF BIOMIMICRY IN THE DIVERSE ENGINEERING DEVELOPMENT AND INNOVATION | I J E C S E | 1308-5581 | 2022 |
| 3 | COMBINED NATURAL CONVECTION AND SURFACE RADIATION IN A SQUARE CAVITY WITH THE INVERSELY LINEARLY HEATED OPPOSITE SIDE WALLS | Frontiers in Heat and Mass Transfer (FHMT), | ISSN: 2151-8629 | 2022 |
| 4 | 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 (FHMT), | ISSN: 2151-8629 | 2022 |
| 5 | PERFORMANCE ANALYSIS OF LONGITUDINAL FIN JET PLATE SOLAR AIR HEATER UNDER CROSS FLOW CONDITION | Frontiers in Heat and Mass Transfer (FHMT), | ISSN: 2151-8629 | 2022 |
| 6 | EFFECTS OF GEOMETRICAL AND FLOW PARAMETERS ON THE PERFORMANCE OF CROSS FLOW JET PLATE SOLAR AIR HEATER | Frontiers in Heat and Mass Transfer (FHMT), | ISSN: 2151-8629 | 2023 |
| 7 | A REVIEW ON THERMAL PERFORMANCE OF SOLAR AIR COLLECTOR WITH ARTIFICIAL ROUGHNED ABSORBER PLATE | Industrial Engineering journal | ISSN: 0970-2555 | 2022 |
| 8 | COMPARATIVE ANALYSIS OF SOLAR FLAT PLATE COLLECTOR : A REVIEW | IEEE | 9781-6654-2149-2 | 2022 |

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|----|--|---|----------------------------------|------|
| 9 | STUDY OF CASCADE REFRIGERATION SYSTEM USING REFRIGERANT R134(A) AND R22 | IJRAR | ISSN: 2349-5138 | 2021 |
| 10 | A CFD STUDY ON CONDITIONAL FLOW ANALYSIS OF BOEING 737AND BOEING J AEROFOIL | IJRAR | ISSN: 2349-5138 | 2020 |
| 11 | SYSTEM FOR CONTROLLING VARIOUS CROP HARVEST ACTIVITIES USING BIG DATA ANALYTICS BASED MACHINE LEARNING AND IOT | The Patent Office Journal No. 29/2021 Dated 16/07/2021 | Application No.202141025104 A | 2021 |