

Faculty Profile-MUKESH CHANDRA

1. **Name:** MUKESH CHANDRA
2. **Department:** Production and Industrial Engineering
3. **Email id:** mukesh.prod@bitsindri.ac.in
4. **Phone Number:** +918404995995
5. **Office Address:** M-84, Department of Production and Industrial Engineering, BIT Sindri, Dhanbad



6. **Qualification:**

S. No	Degree	Specialization	Institute
1.	PhD (Pursuing)	Mechanical Engineering	National Institute of Technology Patna, Bihar
2.	M.Tech (2017)	Manufacturing Technology	National Institute of Technology, Tiruchirappalli, TN
3.	B. Tech (2014)	Production Engineering	Haldia Institute of Technology, West Bengal

7. **Area of Specialization:** Additive Manufacturing, Welding and Fabrications, Manufacturing Processes, and Sustainable manufacturing, AI in Manufacturing, Design and simulation,

8. **Subjects Taught:**

- I) **UG:** - Manufacturing Processes -II, Manufacturing Processes-III Production tooling and Design, Design of Machine element, Theory of Machine, Material Deformation process, Advance welding and casting
- II) **PG:** -Advance Manufacturing Technology-I , Supply Chain Management

9. **Professional Experience:**

I) **Teaching Experience:**

Sl. No.	Position held	Name of Organization	From	To
1.	Assistant Professor	BIT Sindri	3 rd Sep. 2018	Till date
2.	Assistant Professor (Under World bank Project of TEQIP-III)	IGIT, Sarang	3 rd Jan. 2018	31 st Aug. 2018
3.	Associate faculty of Manufacturing Science	GATE FORUM	1 st March 2016	28 th Feb. 2017

II) **Industrial Experience:**

Sl. No.	Position held	Name of Organization	From	To
1.	Associate software engineer	DEP Pvt. India ltd.	3 rd July 2017	29 th Dec. 2017

10. Publications:

Google Scholar - <https://scholar.google.com/citations?hl=en&authuser=1&user=bGD49vsAAAAJ>

National and International Journal:

Sl. No.	Title of the paper	Name of the journal	Vol/No.	Year
1.	Influence of Filler Wire Diameter on Mechanical and Corrosion Properties of AA5083-H111 Al-Mg Alloy Sheets Welded Using an AC Square Wave GTAW Process DOI: https://doi.org/10.1007/s12666-018-1331-y	Trans Indian Inst Met.	71:1975	2018
2.	Study of Mechanical and Thermal properties of Aluminum alloy weldment welded by resistance spot welding	IJRAR (Journal No: 43602)	6: Issue 2	2019
3.	Study of Mechanical and Metallurgical Properties of Cold and Hot Reciprocating Wire TIG Welding on AISI 1035 Carbon Steel DOI: https://doi.org/10.1007/s40033-021-00249-2	Journal of The Institution of Engineers (India): Series D	102, 159–166	2021
4.	A review on developments of deployable membrane-based reflector antennas https://doi.org/10.1016/j.asr.2021.06.051	Advances in Space Research	68, no. 9: 3749-3764	2021
5.	Mechanical Properties of Wire and Arc Additive Manufactured Component Deposited by a CNC Controlled GMAW DOI: https://doi.org/10.1016/j.matpr.2021.10.114	Materials today: Proceeding	In-press	2021
6.	Resistance Spot Welding of Aluminium 6063 Alloy for Aerospace Application: Improvement of Microstructural and Mechanical Properties DOI: https://doi.org/10.1007/s40033-021-00324-8	Journal of The Institution of Engineers (India): Series D	NA	2022
7.	Selection for Additive Manufacturing using Hybrid MCDM Technique considering Sustainable Concepts DOI: https://doi.org/10.1108/RPJ-06-2021-0155	Rapid Prototyping Journal	NA	2022
8.	Digital Technologies, Healthcare, and COVID-19: Insights from Developing and Emerging Nations	Health and Technology	In-press	2022
9.	Wire -arc Additive Manufacturing (WAAM): Process advancements and a framework of intelligence system for quality control	Journal of Materials Processing Technology	Under review	

Conference Proceeding/Book Chapter

Sl. No.	Title of the paper	Name of the journal	Vol/No.	Year
1.	A Critical Review on the Trends Toward Effective Online Monitoring of Defects in Friction Stir Welding of Aluminum Alloys DOI: https://doi.org/10.1007/978-981-15-9505-9_75	Recent Trends in Manufacturing and Materials Towards Industry 4.0	pp851-868	2021
2.	Microstructural and Mechanical Properties Characterization of Resistance Spot Welded Aluminium 6063 Alloy	In Review		
3.	In-situ process monitoring and control in Metal Additive Manufacturing: A Review	In Review		

Conference Attended

Sl. No.	Title of the paper	Conference	Organized by	Year
1.	Experimental investigation on the effect of cold and hot reciprocating wire TIG welding on carbon steel	6 th International Conference on Production and Industrial Engineering (CPIE-2019)	NIT Jalandhar	2019
2.	Application of Smart Manufacturing in fighting COVID 19 Pandemic	Global Webinar on Engineering, Science and Technology-GWET 2020	BITS, Visakhapatnam and IFFRP.	2020
3.	Selection of suitable material for the solar panel using SWARA and COPRAS method	Progressive Research in Industrial & Mechanical Engineering (PRIME - 2021)	NIT Patna	2021
4.	Microstructural and Mechanical Properties Characterization of Resistance Spot Welded Aluminium 6063 Alloy	International Conference on Futuristic Advancements in Materials, Manufacturing and Thermal Sciences (ICFAMMT - 2022)	IIT RM, and Space Society of Mechanical Engineers	2022

10. Sponsored Project /Research Experience

SN	Role	Project Title	Funding Agency	Project out lay	Date of Award	Status
1.	Principal Investigator	"Design & Development of a Proof-of-Concept Model of a Doubly Curved Membrane based Space Structure"	NPIU under TEQIP-III	9.75 Lacs	18 th , June 2019	Submitted
2.	Co-Principal Investigator	"Investigation to fatigue and vibration characteristics of Rolling Element Bearing"	NPIU under TEQIP-III	8.30 Lacs	18 th , June 2019	Submitted

11. Conference/ Workshop/Seminar/ Organized

Sl. No.	Title	Position held	Sponsoring Agency	Date	No. of Participants
1.	One-week workshop on MARFF-2018	Organizing committee member	TEQIP-III	3 Oct. to 7 Oct. 2018	60
2.	2 nd Entrepreneurial Conclave- one day seminar by Start-up Cell, BIT Sindri	Organizing committee member	TEQIP-III	18th sept. 2018	120
3.	An expert talk on Artificial Intelligence By Start-up Cell, BIT Sindri	Organizing committee member	TEQIP-III	23rd March 2018	150
4.	Entrepreneurship Summit- 2019	Joint Organizing Secretary	TEQIP & BITTSA	15 th to 17 th Nov. 2019	200

12. Symposium/ Workshop/Seminar/ Attended

Sl. No.	Title	Date	Organizing Institute
1.	One-week workshop on Faculty Development Programme	20 th to 24 th Jan. 2018	IIT Hyderabad
2.	Two-day workshop on Outcome-based accreditation for UG/PG	6 th to 7 th Feb. 2018	IGIT Sarang
3.	Workshop on Awareness Generation on intellectual property rights	21 st March 2018	IGIT Sarang
4.	Two-day workshop on under Start-up India Programme	29 th to 30 th Sep. 2018	IIT(ISM), Dhanbad
5.	One-week workshop on Manufacturing Automation Robotics and factory of future	3 rd to 7 th Oct. 2018	BIT Sindri
6.	Two-day workshop on Understanding Metallurgy of steel for its Effective Utilization (UMSU-2018)	27 th to 28 th Oct. 2018	BIT Sindri
7.	One-day FDP on Hydraulics- Pneumatics, PLC & Mechatronics	22 nd Nov. 2018	IDTR Patna
8.	One-day Entrepreneurial Conclave	11 th Dec. 2018	BIT Sindri
9.	One-week Workshop on SELF by Art of Living	15 th April to 20 th April	Art of Living at BIT Sindri
10	One -week FDP on “Emerging Trends in Mechanical Engineering”	May 2019	BIT Sindri
10.	One-week FDP on “Advance Pedagogy”	10 th to 14 th June 2019	IIT Kharagpur
11	4 Days Training on Milling NC Programming	18 th -21 st June 2019	Siemens Centre of Excellence, BIT Sindri
12	4 Days Training on Turning NC Programming	24 th -27 st June 2019	Siemens Centre of Excellence, BIT Sindri
13	One-day workshop on “Water scenario of Dhanbad District: Emerging Challenges”	22 nd July 2019	BIT Sindri
14	One-day Orientation session on IIC 2.0 and ARIIA 2020	13 th Aug. 2019	MHRD’s Innovation Cell at GNIT, Kolkata
15.	Two day workshop on Inflatable Structure and Material for Space application (ISMA 2019)	7 th to 8 th Nov. 2019	IIT Roorkee
16.	3 Days Entrepreneurship Summit 2019 at BIT Sindri	Nov 2019	BIT Sindri

17.	One-day workshop on Multi-Physics Simulation for teaching and Research	22 nd Nov. 2019	BIT Sindri
18.	International workshop on Waterjet Process and related 4.0 Application	7 th to 8 th Dec. 2019	IIT(ISM), Dhanbad
19.	IIC Online Sessions on Innovation, IPR, Entrepreneurship, and Start-ups among HEIs	28th April to 22nd May 2020	MHRD's Innovation Cell, New Delhi
20.	National Webinar on Virtual Lab	16 th April 2020	IET & SPIU, UP
21.	Qualitative Research - Approaches and Methods	31 th May 2002	IDMBA, Hyderabad
22.	Faculty development programmed for Engineering college on Virtual Lab	29 th June 200	NIT Surathkal & BIT Sindri
23.	One Day Faculty Development Programme on Free Open Source Tools for Education and Research	07 July 2020	FOSSEE, IIT Bombay
24.	Engineering and Advanced Materials for Sustainable Development	14th July 2020	REC, REWA
25	Three Days National webinar/video workshop on "TRANSFORMING PEDAGOGY IN INDIA",	1 Aug. to 3 Aug 2020	NIT, Jamshedpur
26	Future skill technologies in 3D Printing & Design	19th June to 26th June 2021	IIT Hyderabad & NPIU
27	ATAL Academy Online FDP: Photography	12th Oct. to 16th Oct 2020	NIT Arunachal Pradesh AICTE Training And Learning (ATAL) Academy Online FDP
28	ATAL Academy Online FDP: 3D Printing & Design	14th Dec. 202- to 18th Dec. 2020	NIT Jalandhar AICTE Training And Learning (ATAL) Academy Online FDP
29	Emerging Manufacturing Technologies and Strategies	5th July 2021 to 9th July 2021	BIT Sindri

12. Credit/ Non-credit course completed

Sl. No.	Title	Date	Organizing Institute	Course details
1.	Introduction to Basic Vibrations	Completed on 21 th June 2020	College of Engineering, KAIST, Korea on Coursera	Non-credit, 5-week on course & Grad:86.25%
2.	Digital Transformation in Teaching Learning Process	16 th to 30 th March 2020	IIT Bombay	Non-credit, 2-week on NPTEL platform

13. Academic/ Position Held:

S. No.	Position Held	From (month/year)
1.	Professor In-Charge Welding Lab	Sep. 2018-till Date
2.	Professor In-Charge Computer application Lab	Sep. 2018-till Date
3.	Member of Startup Cell, BIT Sindri, Dhanbad	Sep. 2018-till date
4.	Convener of Institute innovation cell (IIC) at BIT Sindri	Aug. 2019- till date
5.	Executive member of IP cell, BIT Sindri	Aug. 2019- till date
6.	Departmental NAAC Co-coordinator	2021

14. Personal Details:

Father's Name : Ram Chandra Mandal
Mother's Name : Renu Devi
Date of birth : 8th Feb 1992
Gender : Male
Category : OBC
Category for Jharkhand state : NA
Permanent State : Bihar
Nationality : India
Languages Known : Hindi & English
Permanent Address : House no:01, S/o Ram Chandra Mandal, Chhoti Mohuli, Basudeopur, Munger, Bihar, 811202
Present address (Resident) : F6 (2nd Floor), B Type, B Zone , BIT Sindri, Dhanbad, Jharkhand 828123

Declaration:

I hereby declare that the above furnished particulars are true and the best of my knowledge and belief

MUKESH CHANDRA

PLACE: DHANBAD