

Faculty Profile

1. Name: *Dr. Surya Narayan Panda*
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6. Qualification:



S. No	Degree(UG, PG, PhD)	Specialization	Institute
1	B. tech	Manufacturing Science and engineering	Veer Surendra Sai University of Technology, Burla, Odisha
2	M. Tech	Machine Design and Analysis	Veer Surendra Sai University of Technology, Burla, Odisha
3	Ph.D	Production Engineering	Veer Surendra Sai University of Technology, Burla, Odisha

7. Area of Specialization: *Design of Machine Element, Nontraditional Machining, Welding, Softcomputing Method, Composite Materials*

8. Professional Experience:

I) Teaching Experience:

S. No	Organization	Designation	Period (Date)	
			From	To
01	Bit, Sindri, Dhanbad, Jharkhand	Assistant Professor-NPIU	01/09/2018	Till Date
02	Govt College of Engineering, Kalahandi, Odisha	Assistant Professor(OC)	25/07/2016	31/08/2/18
03	Centurion University of Technology And Management, Bhubaneswar	Assistant Professor	31/07/2014	23/07/2016

II) Industrial Experience:

Sl. No.	Position held	Name of Organization	from	to
01	Senior Engineer	Bhushan Power and Steel Limited, Sambalpur, Odisha	02.07.2013	30.07.2014

9. Publications:

I) International Journal:

Sl. No.	Title of the paper	Name of the journal in which publication has been made	Vol/No.	Publication Year	Pages
01	Comparative Study on Optimum Design of Rolling Element Bearing	<i>Tribology International</i>	92	2015	595-604
02	A Multi-Objective Optimum Design Approach for Rolling Element Bearing	<i>International Journal on Interactive Design and Manufacturing</i>	12	2018	1095–1108
03	Modelling and Optimization of Rolling Process: A Multi-objective approach	<i>Journal of Advanced Manufacturing Systems</i>	19-02	2020	343-364

II) International Conference :

Sl.No	Authors	Conf. Title	Conf. Name	Pages(Year)
1	A.K.Pattanaik, S.N.Panda, K.Pal, D.Mishra	A Comparative Investigation To Process Parameter Optimization For Spot Welding Using Taguchi Based Grey Relational Analysis And Metaheuristics	Icmmmm2017	11408-11414(2018)
2	S. N. Panda, S. Panda, D.S.Khamari	A Multi- Objective Approach To Study The Effects Of Ball Race Conformity On Optimum Design Of Rolling Element Bearing Using Metaheuristics	International Conference On Advanced Computing & Intelligent 2018	35–47(2020)
3	S.N.Panda,S.Panda,P.Mishra	A Multiobjective Ideal Design Of Rolling Element Bearing Using Metaheuristics	International Conference On Smart Computing And Informatics,3rd-4th Mar 2017	2190-3018 (2018)
4	Mofeed Alam, M., Jha, A.K., Mukherjee, S., Panda, S., Chakraborty, S.S.	A Review On Friction Stir Welding—A Green Manufacturing Technology	Rtmmti4.0-2020	869–880(2021)
5	Pradip Kumar Sahu, Gunji Bala Murali, Bijay Kumar Khamari,Surya Narayan Panda, Bibhuti Bhusan Biswal	An Efficient Robotic Manipulator Trajectory Planning Using Modified Firefly Algorithm	Icamme-2019	59–66(2020)
6	Bijay Kumar Khamar,Swapan Kumar Karak, Pradip Kumar Sahu, Surya Narayan Panda, Bibhuli Bhusan Biswal	Analysis Of Different Types Of Micro Grains In Stick Welded Mild Steel Plates	Icamme-2019	471–476(2020)

7	Surya Narayan Panda, Dilip Kumar Bagal, Ajit Kumar Pattanaik, Dulu Patnaik, Abhishek Barua, Siddharth Jeet, Biswajit Parida And Bibekananda Naik	Comparative Evaluation For Studying The Parametric Influences On Quality Of Electrode Using Taguchi Method Coupled With Moora, Dfa, And Topsis Method For Electrochemical Machining	Icrami-2019	115–129(2020)
8	A.K.Pattanaika, S.Pradhan, S.N.Panda, D.K.Bagal, K.Pal, D.Patnaik	Effect Of Process Parameters On Friction Stir Spot Welding Using Grey Based Taguchi Methodology	Icmmmm2017	12098-12102(2018)
9	Soumya Ranjan Mangara, Dilip Kumar Bagal, Nirmalya Parhi, Surya Narayan Panda, Abhishek Barua, Siddharth Jeet	Experimental Study Of A Portable Plasma Arc Cutting System Using Hybrid Rsm-Nature Inspired Optimization Technique	Icfmmp-2021	867-878(2022)
10	Pradip Kumar Sahu, Bijaya Kumar Khamari, Bunil Kumar Balabantaray, Bibhuti Bhusan Biswal And Surya Narayan Panda	Geodesic Approach For Trajectory Planning Of Mobile Robot Manipulators	Icame-2019	1521–1531(2020)
11	Dilip Kumar Bagal, Ajit Kumar Pattanaik, Dulu Palnaik, Abhishek Barua, Siddharth Jeet And Surya Narayan Panda	Multi-Objective Optimization And Experimental Investigation Of Cnc Oxy-Fuel Gas Cutting Parameters Using Taguchi Coupled Data Envelopment Analysis	Icrami-2019	75–83(2020)
12	Siddharth Jeet, Abhishek Barua, Dilip Kumar Bagal, Swastik Pradhan, Surya Narayan Panda & Siba Sankar Mahapatra	Parametric Appraisal Of Plastic Injection Moulding For Low Density Polyethylene (Ldpe): A Novel Taguchi Based Honey Badger Algorithm And Capuchin Search Algorithm	Icfmmp-2021	1–17(2022)
13	Nirmal Chandra Behera, Siddharth Jeet, Chandan Kumar Nayak, Dilip Kumar Bagal, Surya Narayan Panda, Abhishek Barua	Parametric Appraisal Of Strength & Hardness Of Resin Compacted Sand Castings Using Hybrid Taguchi-Waspas- Material Generation Algorithm	Icfmmp-2021	1226-1233(2022)
14	Surya Narayan Panda, Ajit Kumar Pattanaik, Pradip Kumar Sahu, Prakash Kumar , Bijay Kumar Khamari	Process Parameter Optimization In Edm: A Multiobjective Approach Using Metaheuristic Approach	Icamme-2019	193–201(2020)
15	Ashutosh Deo, Dilip Kumar Bagal, Ajit Kumar Pattanaik, Surya Narayan Panda, Abhishek Barua, Ritesh Kumar Barkey, Siddharth Jeet	Recent Advancements In Ice Jet Machining Process As An Alternative Of Awjm	Icfmmp-2021	981-985(2022)
16	S. N. Panda, S. Panda, D.S.Khamari, P. Mishra , A. K. Pattanaik	Reevaluation Of Ball-Race Conformity Effect On Rolling Element Bearing Life Using Pso	International Conference On Computational Intelligence And Data Mining/11th-12th Nov 2017	2194-5357 (2019)

17	Dilip Kumar Bagal, Abhishek Barua, Siddharth Jeet, Antarjyami Giri, Ajit Kumar Pattanaik & Surya Narayan Panda	Scope Of Using Photovoltaic Cell To Power Electrical Units Of Air- Conditioned Linke Hofmann Busch (Lhb) Coaches Used In Indian Railways	Icaacr2020	405–414(2021)
18	Dilip Kumar Bagal, Abhishek Barua, Siddharth Jeet, Dipti Acharjya, Ajit Kumar Pattanaik, Surya Narayan Panda	Tribological Investigation Of Quality Of The Industrial Speed Reducer Synthetic Lube Oil Used In Material Handling Industry	Icfmmp-2021	1918-1922(2022)
19	Surya Narayan Panda, Ajit Kumar Pattanaik, Alok Kumar Patel, Sasmita Nayak, Pravajyoti Patra, Dilip Kumar Bagal	Process parameter optimization for machining of Ti-6Al-4V using WASPAS and multi-objective genetic algorithm along with exponential trend line analysis	Innovative Product Design and Intelligent Manufacturing Systems-2023	2023

III) National Journal :

Sl. No.	Title of the paper	Name of the journal in which publication has been made	Vol/No .	Publication Year	Pages
01	Parametric Data Modeling and Experimental Approach for Spot Weldment in SS202	Int. Journal of Engineering Research and Application	3	2013	130-135
02	Optimization of process parameters in spot weldment in OEM grade steel using Genetic Algorithm	International Journal on Mechanical Engineering and Robotics	3	2015	25-29
03	Optimization of Spur Gears Using Profile Modification	International Journal of Advanced Mechanical Engineering	8	2018	71-80
04	Re-examination for Effect of Ball Race Conformity on Life of Rolling Element Bearing using metaheuristic	International Journal of Advanced Mechanical Engineering	8	2018	285- 294
05	Reinforcing bar deterioration and anchorage zone cracking on the load capacity of RC half-joints in girder of major bridge on the river of Sutlej in the State of Punjab	International Journal of Advanced Mechanical Engineering	8	2018	97-110
6	Productivity Improvement of Continuous Casting Through Utilization of Caster Speed Using Goal Programming Technique	International Journal of Advanced Scientific Research and Management	3	2018	1-4
7	Mechanical Characterization of GPL/Polymer Nanocomposite Structure using Finite Element Analysis and SCILAB	International Journal of Applied Engineering Research	14	2019	69-78
8	Multi-Parametric Optimization During Drilling	International Journal of Management,	09	2019	2501-2509

	of Aerospace Alloy (UNS A97068) Using Hybrid RSM-GRA, GA and SA	Technology And Engineering			
9	Thermal Model for Analysis of Hard Turning of Titanium alloy by Coated carbide Tool	International Journal for Research in Engineering Application & Management	05	2019	70-82

IV) National Conference :

Sl. No.	Title of the paper	Name of the Conference in which publication has been made	Vol/No.	Publication Year	Pages
01	Parametric Optimization of EDM Process By Using Taguchi Based Grey Relational Analysis For Mild Steel IS 1018	International Interdisciplinary Conference on Engineering Science And Management	2	2016	295-300

10. SPONSORED R & D PROJECTS

Sl. No.	Title of Project	Sponsoring Agency	Period		Project Sanctioned Amount in INR	Status
			From	To		
1	Investigation to fatigue and vibration characteristics of Rolling Element Bearing	AICTE	18/06/2019	31/03/2021	8.30 Lakh	Completed

11. Conference/ Workshop/Seminar/ Organized

Sl. No.	Title of Seminar / Conferences / Short – term Courses	Role	Funding / Sponsoring Agency	Date of Seminar / Conferences / Short – term Courses	No. of Participants
01	2nd National Conference on Multidimensional Advancement in Mechanical Engineering	Coordinator	TEQIP-III	27-28 Dec 2017	110
02	MARFF-2018	Coordinator	TEQIP-III	3-7 Oct 2018	60
03	Emerging Manufacturing Technologies and Strategies-2021	Coordinator	TEQIP-III	5-9 July 2021	100
04	Materials And Manufacturing: Insight to Modern Technologies-2022	Coordinator	DHTE, Govt. Of Jharkhand	1st to 5th August 2022	100

12. Symposium/ Workshop/Seminar/ Attended

1. One Week Online Faculty Development Programme on "Vibration Analysis & Condition Monitoring for Rotating Machines" Organized at Indira Gandhi Institute of Technology, Sarang, Dhenkanal, Odisha, India during 05- 09 October, 2020
2. AICTE Training And Learning (ATAL) Academy Online FDP on "ADVANCEMENT IN MANUFACTURING TECHNOLOGIES FOR INDUSTRIAL APPLICATIONS" from 2020-8-24 to 2020-8-28 at Gyan Ganga Institute of Technology and Sciences.
3. AICTE Training And Learning (ATAL) Academy Online FDP on "Additive Manufacturing" from 2020-9-21 to 2020-9-25 at Vasireddy Venkatadri Institute of Technology
4. AICTE Training And Learning (ATAL) Academy Online FDP on "3D Printing & Design" from 2020-12-14 to 2020-12-18 at Dr. BR Ambedkar National Institute of Technology Jalandhar.
5. AICTE Training And Learning (ATAL) Academy Online FDP on "Robotics" from 2021-1-5 to 2021-1-9 at Rajeev Gandhi Memorial College of Engineering and Technology
6. One week online short term course on "Multi-Scale Computational Fluid Dynamics: Fundamentals and Applications" held on September 21-25, 2020, organized by the Department of Mechanical Engineering, Dr. B. R. Ambedkar National Institute of Technology Jalandhar, Punjab, India
7. TEQIP assisted course on Open Source Tools for Scientific Computing Scilab Python, R and Latex from 28th December, 2020 to 01st January, 2021 organized by the Department of Management Studies IIT Roorkee
8. Short Term Training Programme on "Advance of Materials Design, Machining and Characterization (AMDMC-2020)" Organized by Department of Production Engineering, Veer Surendra Sai University of Technology, Burla during 21st to 26th November 2020
9. Faculty Development Programme on "ADVANCES IN MATERIALS & MACHINING PROCESSES FOR RECENT INDUSTRIAL APPLICATIONS" Organized by Department of Production Engineering, Veer Surendra Sai University of Technology, Burla during 7th to 11th Sept 2020
10. One week Faculty Development Program on "Computational Intelligence Techniques for Machine Learning" organized by the Department of Computer Science & Engineering and Information Technology, Jaypee University of Information Technology, Waknaghat-173234 (H.P.), India, from August 31 to September 5, 2020
11. One week Online FDP program on LaTeX from 13th to 19th July 2020 conducted by Jamshedpur Women's College in collaboration with Spoken Tutorial, IIT Bombay.
12. AICTE Sponsored Online Short-Term Training Programme (STTP) on "Advances in Finite Element Method for Industry & Research Applications" during 7th - 12th September 2020 organized by the Department of Civil Engineering, Vasavi College of Engineering (Autonomous), Hyderabad
13. One Week Faculty Development Programme on Advances in Manufacturing (AIM-2021) organised by the Department of Mechanical Engineering, BIT Sindri, Dhanbad in collaboration with TEQIP III from 15th June, 2021 to 19th June, 2021
14. Short term training programme "NBA ACCREDITATION" conducted by National Institute of Technical Teachers' Training and Research, Bhopal, 10-08-2020 to 14-08-2020
15. AICTE sponsored Two Weeks Online Faculty Development Programme (FDP) on "Application of Artificial Intelligence and Machine Learning in Digital Manufacturing" from 01st to 14th of December 2020, organized by Department of Mechanical Engineering, GIET University, Gunupur, Odisha-765022
16. Three days Online Workshop on "Rotor and Bearing Systems (RBS-2020)" Organised by Department of Mechanical Engineering, SRM Institute of Science and Technology held between November 24th - 26th , 2020

17. One Week National Webinar on "Advances in Production Engineering (APE-2020)" sponsored by Technical Education Quality Improvement Programme (TEQIP-III) during 14th to 19th September, 2020 organized by Department of Production Engineering Indira Gandhi Institute of Technology (IGIT), Sarang, Dhenkanal, Odisha.
18. One Week Online Faculty Development Programme on "Recent Advancement of Materials and its Application (RAMA-2020)" Organized by Veer Surendra Sai University of Technology, Odisha, Burla, India from 15th- 19th September, 2020 under TEQIP-III.
19. "Advanced Simulation Solution" Course Conducted at SEIMENS, BIT Sindri, Dhanbad from 24-Sep-20 to 30-Sep-20
20. Faculty Development Program on "Recent Trends and Advances in Robotics and Automation", through video conferencing mode, hosted by Department of Mechanical & Electrical Engineering, CET, Bhubaneswar, from 21st – 25th September, 2020
21. One Week Online Short Term Course on Innovation and Research in Welding, Joining and Cutting Technology held during 07 – 11 September 2020 at Department of Mechanical Engineering in association with Institute Innovation Cell, NIT Silchar
22. Short Term Training Program on "Advances in Additive Manufacturing" organized by Siemens Centre of Excellence for Digital Manufacturing and Robotics under NAFETIC at Yeshwantrao Chavan College of Engineering, Nagpur, conducted between 24th to 29th of August, 2020
23. Five days Online Workshop on "Modeling & Simulation Tools"
organized by Material Research Centre and DHIO Research & Engineering Pvt Ltd, from 20th – 24th October 2020
24. One Week Online Short Term Course on "Advances in Chemical, Biochemical and Allied Industries" held during Nov. 05-09, 2020. organized by Department of Biotechnology & Centre for Energy and Environment, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab under the aegis of TEQIP-III Ministry of Education. Govt, of India
25. Five-Day Online Workshop on "Research Advances in Science & Engineering" organized by the Department of Mechanical Engineering, CREC(A), Tirupati during June 14-18, 2021.
26. One Week Online Faculty Development Programme on "RECENT ADVANCEMENTS IN MANUFACTURING AND MATERIALS PROCESSING" Organized by Veer Surendra Sai University of Technology, Odisha, Burla, India from 10 -14 September, 2020 under TEQIP-III
27. Five Day Online Faculty Development Programme on "Mechatronics, Automation and Robotics" organized by Department of Mechanical Engineering, SoE in association with IEEE Bombay Section and AICRA during August 3-7, 2020.
28. Short Term Training Programme through ICT Mode on Refresher Course in Strength of Material organised by this institute from 04/01/2021 to 08/01/2021, NITTTR, KOLKATA
29. One week online short term course on "Multi-Scale Computational Fluid Dynamics: Fundamentals and Applications" held on September 21-25, 2020, organized by the Department of Mechanical Engineering, Dr. B. R. Ambedkar National Institute of Technology Jalandhar, Punjab, India
30. one week e-Workshop on "Emerging Manufacturing Technologies and Strategies (EMTS-2021)" organized by Production Engineering Department, BIT Sindri, Dhanbad from 05th July to 09th July, 2021.
31. One week online Short-Term Training Program (STTP - Phase-III) on "Innovations and Challenges in Industry 4.0 Automation and Smart Manufacturing", organized by Department of Mechanical Engineering, Kallam Haranadhareddy Institute Of Technology, Guntur, Andhra Pradesh from 26th July 2021 to 31st July 2021
32. Faculty Development Program on "Data Science and AI for Non-Programmers using Momentum" organized by "Computer Science & IT Department" of BIT Sindri in association with Accure Private Ltd. held from 26th December 2022 to 07th January 2023.

33. One Week workshop on “RESEARCH METHODOLOGY & RESEARCH PAPER WRITING [RMRPW-2023]” from 13th to 17th February, 2023 organized by the Department of Electrical Engineering, BIT Sindri Dhanbad and Technically Co-Sponsored by IEEE Kolkata Section
34. One week e-Workshop on “Materials and Manufacturing: Insights to Modern Technology (MMIMT-2022)” organized by Production Engineering Department, BIT Sindri, Dhanbad from 1st to 05th August 2022.

Date:

Place: BIT Sindri