Dr. Bibekananda Mishra

Post-Doctoral Fellow



Personal details



Dr. Bibekananda Mishra



bibekanandauce08@gmail.com



9735308423, 9437865171



Dearment of Operations and Analytics, FLAME University, Pune 412115 Pune, India



July 5, 1985



Talcher, Odisha, India



Male



Indian



Married



scholar.google. com/citations? user= dbdktQsAAAJ&hl=en& oi=ao



linkedin. com/in/bibekmishradkl

- Researchgate: researchgate. net/profile/Bibekananda- Mishra
- Orcid: Orcid: 0000-0001-5246-4075

Education

Doctor of Philosophy

2016 - 2024

Indian Institute of Technology Kharagpur, Kharagpur Research Area: Servitization, Operation Management Department: Industrial and Systems Engineering

Research Thesis: Modelling and Integrating Servitization Practices for Indian

Automobile Industry

Master of Technology

2012 - 2014

Maulana Azad National Institute of Technology, Bhopal

Specialization: M.Tech in Industrial Design Department: Mechanical Engineering

GGPA: 9.49/10

M. Tech Research Thesis: Design of Cell Phone using QFD & TRIZ

Methodology

Bachelor of Technology

2004 - 2008

Veer Surendra Sai University of Technology, Burla Specialization: B.Tech in Mechanical Engineering

Department: Mechanical Engineering

CGPA: 7.28/10

B. Tech Project: Design and Fabrication of low budget Air Conditioner for cuboids

Employment

Post-Doctoral Fellow

Mar 2024 - Present

FLAME University, Pune

- Learned NVIVO Software for coding for qualitative analysis.
- Developing dynamic capability for servitization process for Tyre Manufacturers.
- Analyzed a case study for university course curriculum and quality development.

Research Assistant

Jan 2016 - Dec 2023

Indian Institute of Technology Kharagpur, Kharagpur

- Applied Graph Theoretical Matrix Method to quantify the quality characteristics of servitization of automobile industry.
- Bench marked three Indian automobile manufacturers on the basis of quality characteristics.
- Found out the barriers to adoption of servitization in the manufacturing industry taking an example of automobile sector.
- Analyzed empirically the adoption of Internet of Things in servitization process through PLS SEM software.
- Calculated the failure modes of servitization process using FMEA analysis.
- Simulation Lab using ARENA Software, Quality Engineering Lab, Work System Design Lab
- Worked as a Teaching Assistant in subjects like Project Management, Quality Engineering, Design of Experiments, Operations Management, MOOCs Six Sigma Course (NPTEL) for 2017, 2018, 2019, 2020, 2021

Assistant Professor

Jul 2014 - Dec 2015

Gandhi Engineering College, Bhubaneswar

 Subjects taught: Mechanics, E-Commerce, Mechanical Vibration, Advanced Mechanics of Solids, FEM, Manufacturing Science

Languages

English
Hindi
Odia

Skills

Servitization 0000 **Operation Management** Six Sigma **Project Management** MS Office. Power Point Presentation, Excel Sheet ARENA, Venism, STELLA, iThink, NVIVO Minitab, IBM SPSS, **SmartPLS** Matlab Pro-E, CREO, Solid Works, Solid Edge VOS Viewer, Mendeley, Referencing Software's

Qualities

- Works on projects with crossfunctional teams
- Hard working, adaptable, flexible, sincere and responsible person
- A good team player as well as a Team Leader
- Innovative and creative on work field

Hobbies

- Research article reading
- New Technology Learning
- Web surfing, Yoga, Cycling

- Labs have taken: Material Testing, Workshop, Solid Works, Fluid Mechanics, Machine Shop
- Projects Guided: Hovercraft design
- · Acted as a student mentor
- Acted as Department Training and Placement Coordinator
- Member of the Accreditation process of the Institute

Lecturer

Sep 2008 - Jun 2011

Synergy Institute of Engineering & Technology, Dhenkanal

- Subjects taught: Mechanics, Thermodynamics, Machine Dynamics, Manufacturing Science, Production and Operation Management, Heat Transfer, Simulation Modeling & Control, MMC, Meteorology Quality control & Reliability
- Labs have taken: Material Testing, Workshop, Solid Works, Fluid Mechanics and Hydraulic Machines, Machine Shop, Production lab, Engineering Drawing
- Projects Guided: Design of Foot Step Power Generation equipment, Design and Development of year around Air-Conditioning System, Analysis of centrifugal pump performances.
- · Acted as Student Mentor
- Core Committee Member of Accreditation Process such as NBA.
- Lab in charge of Material Testing Lab, Production Lab, and Mechanical Engineering Lab

Publications

Journal

- Mishra, B., Mahanty, B., & Thakkar, J. J. (2021). A quantifiable quality enabled servitisation model: benchmarking Indian automobile manufacturers. International Journal of Production Research, 59(9), 2667-2689. DOI: 10.1080/00207543.2020.1736721
- Mishra, B., Mahanty, B., & Thakkar, J. J. Analyzing barriers and their causal relationship for sustainable servitization of automobile industry. Under Review

Conference

- Bibekananda Mishra, Vilas Warudkar (2013). Service development using QFD Methodology: A case study of library. National Conference on Frontiers in Mechanical Engineering (FIME -2013), August 29 – 31.
- Mishra, B., Mahanty, B., & Thakkar, J. J. (2023). The failure modes of servitization of manufacturing industry; A perspective from Indian automobile industry. POMS India International Conference 2023, organized by POMS India Chapter, held at XLRI Jamshedpur from 4- 6 December, 2023.

Book Chapter

Pulok Ranjan Mohanta, Bibekananda Mishra, & Biswajit Mahanty (2022).
 Application of Industry 4.0 in Sustainability of Servitized Manufacturer.
 Application of Engineering, Technology, Management for Sustainable Manufacturing Sector, 1, 38-60, World Leadership Academy. ISSN: 978-93-94318-00-7.

Training

New Product development using Systems Engineering Principles

Mar 2017

MHRD TEQIP II sponsored Short-Term Course (3 days)

Organized by Dept. of Industrial and Systems Engineering, IIT Kharagpur, West Bengal, India

Preparing Young Researchers

Mar 2014

MHRD TEQIP II Workshop (2days)

Organized by Dept. of Mechanical Engineering, MANIT, Bhopal, Madhya Pradesh, India.

Recent Advancements in Product Innovations and Design (RAPID-2014)

Feb 2014

MHRD TEQIP II Short Term Training Program (5 days)

Organized by Dept. of Mechanical Engineering, MANIT, Bhopal, Madhya Pradesh, India.

Engineering Mechanics

Nov 2013 - Dec 2013

ISTE Workshop (2 weeks)

Conducted by IIT Bombay held under the National Mission on Education through ICT (MHRD) at MANIT, Bhopal, Madya Pradesh, India.

CATIA and ANSYS

Mar 2013

Workshop (2 days)

Organized by MANIT, Bhopal, Madhya Pradesh, India.

Solid Works & CAM Works

Mar 2011

National Workshop (1 day)

Organized by Synergy Institute of Engineering & Technology, Dhenkanal, Odisha, India.

Advances in Planning & Quality Control in

Jul 2009

Manufacturing & Service Organization

Staff Development Programme (13 days)

Organized by Synergy Institute of Engineering & Technology, Dhenkanal, Odisha, India.

Robotics & Its Application

Jan 2009

National Workshop (2 days)

Organized by Synergy Institute of Engineering & Technology, Dhenkanal, Odisha, India.

MATLAB and Engineering Application

Dec 2008

National Workshop (2 days)

Organized by Synergy Institute of Engineering & Technology, Dhenkanal, Odisha, India.

PRO-ENGINEER and CNC Machining

May 2006

Vocational Training (1 Month)

Organized by CTTC, Bhubaneswar, Odisha, India.

Achievements

- Worked as a Reviewer for journals like the International Journal of Production Research, International Journal of Productivity and Performance Management, International Journal of Quality & Reliability Management, and OPSERCH.
- Presented a Technical Paper titled "A quantifiable quality enabled servitization model: Benchmarking Indian Automobile manufacturers" at the Doctoral Colloquium and Research Scholars' Day organized jointly by the Department of Industrial & Systems Engineering and Institute of Industrial and Systems

Engineering (IISE), IIT Kharagpur Student Chapter (#660) during February 15 – 16, 2019.

- Presented a Technical Paper titled "Literature Review on Servitization and Key issues for Automobile Industry" in the Doctoral Colloquium and Research Scholars' Day organized jointly by the Department of Industrial & Systems Engineering and the Institute of Industrial and Systems Engineering (IISE), IIT Kharagpur Student Chapter (#660) during March 24 – 25, 2017.
- Qualified GATE examination in 2011, 2012, 2013, 2014, and 2015.
- Achieved Gold Award for Institute of Industrial and Systems Engineering (IISE), IIT Kharagpur Student Chapter (#660) in the year 2019
- Got many more scholarships during the School level

Professional Body Membership

Production and Operation Management Society

Mar 2021 - Mar 2023

Student Member

Membership Number: 30951

Mar 2018 - Apr 2019

Institute of Industrial and Systems Engineering (IISE), IIT Kharagpur Student

Chapter (#660)

Student President

Student Member

Institute of Industrial and Systems Mar 2016 - Apr 2019

Engineering (IISE), IIT Kharagpur Student Chapter (#660)

Membership Number: 880177659

Feb 2010 - Present

Indian Society for Technical Education

Life Member

Membership Id: LM71106

References

Prof. Biswajit Mahanty

IIT Kharagpur, Kharagpur 9434704873, bm@hijli.iitkgp.ac.in

Prof. Jitesh J Thakkar

Gati Shakti Vishwavidyalaya, Vadodara 8001438700, jitesh.thakkar@gsv.ac.in

Prof. Dinesh Shenoy

FLAME University, Pune 9740697938, dinesh.shenoy5@gmail.com