



MR. KAILASH KUMAR BORKAR
(Assistant Professor)

Centre/School/Special Centre:

School of Studies in Engineering and Technology
(SOSE&T), Guru Ghasidas Vishwavidyalaya
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Department: Industrial & Production Engineering

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Qualifications:

BE (Ind. & Prod. Engineering), MTech (Machine Design), PhD (Pursuing)

Area of Interest/Specialization:

Path Planning and Optimization of Mobile Robot, Machine Design, CAD, Rapid Prototyping.

Experience:

1. Working as an Assistant Professor from 24.02.2020 to till date in the department of Industrial & Production Engineering, School of Studies in Engineering and Technology, Guru Ghasidas Vishwavidyalaya (Central University), Bilaspur.
2. Worked as an Assistant Professor (on contract) from 06.02.2017 to 21.06.2021 in Mechanical Engineering Department, Guru Ghasidas University, Bilaspur (C.G.).
3. Worked as an Assistant Professor from 02.01.2014 to 30.10.2016, in Mechanical Engineering Department, Rungta Engineering College, Raipur (C.G.).

Awards and Honors:

Received Honors in MTech programme (in 2013)

Best Peer Reviewed Publication (up-to 10):

Journal Papers:

1. *“Heuristic Rule Base Network Path Analysis and Planning of Wheeled Mobile Robots”*, International Journal of Research In Aeronautical and Mechanical Engineering, Vol. 1, No. 7 (54-58), 2013.

2. *“Efficient Approach for Minimizing Tool Paths Length for Bézier Surface from Iso-Scallop Technique”*, International Journal of Research In Aeronautical and Mechanical Engineering, Vol. 1, No. 7 (47-53), 2013.
3. *“Design of Sliding Mode Controller Enhanced by Fuzzy Logic Algorithm for Industrial Robot”*, International Journal of Research In Aeronautical and Mechanical Engineering, Vol. 1, No. 7 (140-148), 2013.

Conference Papers:

4. *“Path Planning Solution of WMR in Known Dynamic Environment Using Heuristic Rule Base Approach”*, 7th INTERNATIONAL CONFERENCE ON Computational Optimization, Modelling and Simulation: Recent Trends and Challenges, Organized at RUNGTA COLLEGE OF ENGINEERING AND TECHNOLOGY, BHILAI 25th – 26th March 2022
5. *“Heuristic Rule Based Approach for Obstacle Avoidance of Non-holonomic Wheeled Robot”*, AICTE sponsored Online National Conference on Recent Advancements in Electrical, Electronics & Instrumentation (NCRAEEI'21) organized by Murugappa Polytechnic College, Chennai, Tamilnadu, India on 26-27 August, 2021.
6. *“Heuristic Rule Based Path Planning and Path Optimization of Non-holonomic Wheeled Mobile Robots”*, International Conference on Advance Research Applications in Engineering & Technology, Rungta Educational Campus, Raipur C.G. March 2014.
7. *“Path Optimization of Non-holonomic Wheeled Mobile Robots using HRBN Technique”*, International Conference on Emerging Trends in Electrical, Electronics, Instrumentation & Computer Engineering, BIT Raipur, C.G. , March 2014.
8. *“Degree Reduction of Bezier Patches for Sculptured Surface: A Review”*, International Conference on Emerging Trends in Electrical, Electronics, Instrumentation & Computer Engineering, BIT Raipur, C.G. , March 2014.
9. *“Design a Neural Network controller for Noise Cancellation during Trajectory Tracking for Manipulator Using Matlab”*, International Conference on Emerging Trends in Electrical, Electronics, Instrumentation & Computer Engineering, BIT Raipur, C.G., March 2014.
10. *“Design of Intelligent Controller for Path Analysis and Motion Planning of Non-holonomic Wheeled Robot: A Survey”*, All India Conference on Global Innovation for Technology Development in Mechanical & Mechatronics Engineering, CSIT Durg CG, April 2013.

Administrative Responsibilities:

1. Working as Member Anti ragging Cell GGV.
2. Worked as BOS members for year 2020, 2021 (departmental level).
3. Working as Time Table In-charge (departmental level).
4. Semester coordinator for session 2020-21 and 2021-22 (departmental level).
5. Working as member AICTE related activity (School level).
6. Working as member Alumni Cell (School level).
7. Member for B. Tech admission committee for 2021.
8. Working as co-coordinator Training and Placement Cell (School level).
9. Member of stock verification committee (departmental level).
10. Coordinator of purchase committee of minor equipment (departmental level).
11. Member for B. Tech admission committee for 2022.

Additional Information:

1. One Month Orientation programme (Guru Dakshta) completed conducted by HRDC Center GGV Bilaspur.
2. Various International/national short-term training/ATAL/webinar attended till date.