



VINODKUMAR H P

Assistant Professor

CONTACT

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Professional Experiences:

Teaching: 06 years

Industry: 1 year 8 months

Research: Part time scholar from 2021.

Courses Taught:

Mechatronics – UG.
Industrial Robotics – UG.
Computer Integrated Manufacturing – UG.
Engineering Economics -UG.
Computer Aided Engineering Drawing – UG.
Innovation and Design Thinking- UG.
Industrial Design and Ergonomics-UG.
Computer Aided Engineering-PG.
Industrial Internet of Things-PG.
Robotics for Industrial Automation-PG.
Robot Kinematics and Dynamics-PG.
Artificial Intelligence and Expert systems for Automation-PG.
Computer Vision and Image Processing-PG.

ABOUT ME

Graduated in Mechanical Engineering and Post Graduated in Industrial Automation and Robotics. Research interest is in the domain of Rehabilitation Robotics. Skills in handling automation and robotic devices.

RESEARCH INTERESTS:

Robotics and Automation

Rehabilitation of elbow joint using a multi degree of freedom system.

EDUCATION

- **Ph.D - Specialization – Rehabilitation Robotics.**
NIT Calicut, Year of Graduation: Pursuing.
- **M.E/M.Tech. – Specialization – Industrial Automation and Robotics**
Institute/University Name: The National Institute of Engineering, VTU Belagavi
Year of Graduation : 2016
- **B.E., - Specialization – Mechanical Engineering**
Institute/University Name: The National Institute of Engineering, VTU Belagavi
Year of Graduation : 2012

PUBLICATIONS

1. Soujanya Ganapati Bhootanal ,Vinod Kumar H.P ,K.R.Prakash , (2022) " Automation of Laser Marking Machine by Implementation of Automatic Laser Shaft Adjustment Technique " , International Journal of Mechanical and Production Engineering (IJMPE) , pp. 20-22, Volume-10,Issue-6.
2. VINOD ARVA, KESHAVA P,Abhishek M,Vinod Kumar H P,Dr.PrakashKR, Concept Generation and Development of 3 Axis Table Top Drilling Machine for PCB Application, IJRTI, Volume 7, Issue 8, 2022.
3. Anusha M, C Vidya Raj, VinodKumar H P, Integration of all types of Photoelectric Sensors with IoT and Development of Android Based Application, IRJET, Volume 8, Issue 8, Aug 2021.
4. Nanda, A., Sultana, S., & Kumar H P, P. V. (2021). Integration of pinning unit and portal unit with iot data logger and development of android based application. International Research Journal of Computer Science, 8(8), 178–182. doi:10.26562/irjcs.2021.v0808.004.
5. Bhavya, Dr.Annapurna, & Kumar, P. V. (2021). Integration of mechatronics system with cloud based IoT data logger using android based application. International Research Journal of Computer Science, 8(8), 189–192. doi:10.26562/irjcs.2021.v0808.006.
6. N.S.Sushmitha, H.P VinodKumar, Design and Implementation of IoT Based Smart Weighing Device for LPG Monitoring and Industrial Applications, IJRESM, Volume-3, Issue-5, May-2020 Page(s): 580-583
7. Omkar Dhumal, VinodKumar H P, Design and Analysis of Gantry Automation System for Crankcase Machining in VMC, IJRESM, Volume-3, Issue-5, May-2020 Page(s): 1232-1234
8. D. S. Sumanth, H. P. Vinod Kumar, Design of the Machine Tending System for Hydraulic Power Press Machine, IJRESM, Volume-3, Issue-6, June-2020 Page(s): 619-621
9. Kavya L, Vinodkumar H P, 2019, PLC Programming of A Machine Tending Robot for CNC Operations, INTERNATIONAL JOURNAL OF ENGINEERING RESEARCH & TECHNOLOGY (IJERT) NCRACES – 2019 (Volume 7, Issue 10),
10. Chaithra K, Vinod Kumar H P, 2019, Robotics Process Automation :Stragetec Technology solutions for IT, INTERNATIONAL JOURNAL OF ENGINEERING RESEARCH & TECHNOLOGY (IJERT) NCRACES – 2019 (Volume 7, Issue 10),

FDP/STTP/ WORKSHOPS/CONFERENCES/SEMINARS ATTENDED:

1. ATAL FDP on “Applications of Artificial Intelligence in Mechanical Engineering” from 2-08-2021 to 06-08-2021 at K.Ramakrishnan college of Engineering.
2. ATAL FDP on “Hands-on approach for the Design and Implementation of Lab-on-Bread-Board- A Blended Learning” from 21-07-2021 to 25-07-2021 at NIE, Mysuru
3. Attended AICTE sponsored one week short term training programme(STTP) phase III on “Recent Advances in Industrial Automation and Robotics” organised by Department of Mechatronics Engineering, Kumaraguru college of Technology, Coimbatore conducted from 15 to 20 Feb, 2021.
4. Attended 9 hrs online live FDP on “Digital Manufacturing using Autodesk Fusion 360” conducted by ICT academy on 22nd June 2020 to 27th June 2020.
5. Attended two day training on “LabVIEW and RIO platform” from 29/01/2020 to 30/01/2020 at VI solutions, Bengaluru.
6. Attended one week FDP on “Developing Next Generation Faculty” from 22nd July 2019 to 28th July 2019 organised by the Department of CS & E, NIE, Mysuru
7. Attended two day workshop on “Introduction to Robotics” from 24th May 2019 to 25th May 2019 at IIT, Bombay.
8. Attended one week FDP on “Research Avenues in Advanced Manufacturing and Mechanical Engineering” from 13th May 2019 to 17th May 2019 organised by the Department of I & P Engineering, NIE, Mysuru
9. Attended two day workshop on “Engineering Faculty You Can Do Research, Learn How...” held on Feb 22-23, 2019 at NIE, Mysuru
10. Attended two day FDP on “IoT in Automotive and Manufacturing” organised by the Department of Mechanical Engineering, PES University, Bengaluru
11. Attended five day FDP on PLC & SCADA in Manufacturing from January 16th to 20th, 2018 organised by the Department of Mechanical Engineering, NIE, Mysuru.

OTHER INFORMATION:

(Patents Filed/ Membership/Administration/Consultancy/Evaluator/Research Guidance and funding/Awards/Key Roles/Invited Talks Delivered, etc)

Handled online training for the employees of L & T Mysore in the domain of Industrial Hydraulics from 14th Feb 2023 to 17th Feb 2023.