

# Curriculum Vitae

## Vishal Yadav, Asst. Director

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### Profile

I am an enthusiastic learner and hard worker who wants to join a challenging firm, where one can show their skills and improve their tactics for the betterment of industrial & educational progress. Having short exposure to industry as a Business Development Executive in the automation industry and almost six years of experience in education as Assistant Professor along with that working as Assistant Director in Research and Development Cell for four years. Highly motivated in research and development in the field of advanced materials, automation, and mechatronics. Also, have expertise in various mechanical design as well as PLC, SCADA softwares. I am currently looking for an opportunity to utilise my technical skills in a challenging working environment and become a valuable asset to the organisation that I work for.

### Experience

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|--|---------------------|
| → Sangam University, Bhilwara                              | Jan 2020 - Till now |
| Assistant Professor Assistant Director                     |                     |
| Department of Mechanical Engg. Research & Development Cell |                     |
| → Government Polytechnic College, Bhilwara                 | Sep 2019 - Jan 2020 |
| Guest Lecturer   |                     |
| Department of Mechanical Engineering                       |                     |
| → S.D. Engineerstech Pvt. Ltd.                             | Oct 2018 - Aug 2019 |
| (Shriji Robotics Pvt. Ltd.)                                |                     |
| Business Development Executive                             |                     |
| Project Management   |                     |
| Customer Relationship Management                           |                     |
| Marketing Department                                       |                     |

### Research Interests

- Mechatronics
- Advanced Automation
- Composite Materials
- Functionally Graded Materials
- Finite Element Modelling

## **Analysis Software Skills**

- COMSOL Multiphysics
- Ansys Workbench & APDL
- MATLAB
- SolidWorks
- PLCs, SCADA, HMI and VFD

## **Academia**

- **Doctor of Philosophy (Ph.D.)** **2020 - Pursuing**  
Sangam University, Bhilwara  
School of Engineering & Technology  
Department of Mechanical Engineering  
Thesis Title:- Design and Development of Simulation Model For Semi Continuous Industries Using Autonomous Mobile Robots (AMRs)
- **Master of Technology (M.Tech.) - (Honours)** **2016 - 2018**  
Rajasthan Technical University, Kota  
University College of Engineering, Kota  
Department of Mechanical Engineering  
Specialisation:- Machine Design  
Dissertation Title:- Thermal Buckling Analysis of Skew, Trapezoidal and Triangular FGM Plate Using COMSOL  
Supervisor: Prof. (Dr.) S.K. Rathore  
Got 2nd rank in university merit list
- **Bachelor of Technology (B.Tech.) - (Honours)** **2012 - 2016**  
Rajasthan Technical University, Kota  
Institute of Technology and Management, Bhilwara  
Department of Mechanical Engineering  
Specialisation:- Mechanical Engineering

## **Certification**

- Attended the “**National Conference on Innovative AI Solutions for Sustainable Cities**” at IIT Kanpur 3-4 February, 2025.
- **Automation System Engineer** 3-month course certified by IPCS Automation, Chennai.  
  
**PLCs:** - Allen Bradley, Siemens S7 300 & S7 1200, Omron, Keyence, Delta, Schneider, GE-Fanuc, ABB, Mitsubishi.  
  
**SCADA:** - Schneider Electric, Siemens  
  
**Human Machine Interface (HMI):**- Allen Bradley, Delta  
  
**VFD:** - Allen Bradley, Delta  
  
**DCS:** - Yokogawa Centum CS 3000, ABB 800 F DCS  
  
Hands on practise on PLC wiring, Industrial Networking along with Field Instrumentation & Pneumatics.

- Participated in online QIP-short term course on “**Advances in Vibrational Analysis**” organised by **IIT-BHU, Varanasi**.
- Appreciation certificate for the contribution as Rapporteur in International Conference Analytical & Interdisciplinary Research (ICAIR – 2021).
- Participated in Faculty development programme on “**Cyber Security**” organised by **E & ICT Academy, IIT Kanpur**.
- Participated in the National level Faculty Development Program on “**Emerging Trends in Automotive Embedded Systems**” organised by **Bangalore Institute of Technology, Karnataka**.
- Participated in the National level Faculty Development Program on “**IoT protocols and WSN-Theory and practise**” organised by **Bangalore Institute of Technology, Karnataka**.
- Participated in a short-term training programme through ICT mode on “**Introduction to PYTHON Programming**” organised by **NITTTR, Kolkata**.
- Attained One week online short-term course on “**Supply Chain Management: Opportunities and Strategies**” organised by **NIT, Jalandhar**
- Attained One week online short-term course on “**Hybrid Manufacturing Processes: Opportunities and Challenges**” organised by **NIT, Jalandhar**.
- Participated in the Faculty Awareness Program organised by **National Institute of Food Technology Entrepreneurship & Management (NIFTEM), Sonapat (Haryana)** on “**Online Teaching Pedagogy in Higher Education**”.
- Attained Three days’ workshop on “**How to Draft Effective Scientific Publications, Patents and Patent Filing**” organised by **Bharat Institute of Engineering and Technology, Hyderabad**.
- Industrial Training from **Indo Autotech Pvt. Ltd. Faridabad (Haryana)** in production dept. and learnt robotic welding and robot teaching (programming).
- STTP on Computational Fluid Dynamics.
- National Design Competition by CADD centre certification of 2<sup>nd</sup> level.
- District level Table Tennis participation certificate and Indian Air Force MIG – 30 Simulator program.
- Participated in district level Table Tennis tournament.
- Participated in college Speech Competition organised by Bharat Vikas Parishad.

## **Publications**

- Published research paper in Wesleyan Journal of Research (UGC care list) titled as “**Molecular Docking Studies to Identify Novel Anti Malarial Drugs**.” Vol. 13 No. 67 March 2021, ISSN: 0975-1386.
- Published research paper in International Conference on Recent Development in Engineering Sciences, Humanities and Management titled as “**Comparative Thermal Buckling Analysis between Aluminum and FGM Rectangular Plate**.” Vol. No.09, January 2020, ISSN: 2319-8346.
- Published research **book** on Amazon KDP titled as “**Thermal buckling analysis of skew, trapezoidal and triangular FGM plates using COMSOL**” ISBN-13: 978-1653639861.
- Published research paper in International Journal of Advance Research in Science and Engineering as titled “**Buckling and Postbuckling behaviour of FGM plate – A Review**” Vol. No.07, January 2018, ISSN: 2319-8354.

## **Patents**

- Patent Published in March 2025, title of invention is “**IoT-Integrated Smart Irrigation System with AI Based Climate Adaptation**”(202511015825)
- Patent published in March 2023, title of invention is “**Detection and Autism Spectrum Disorder in EEG Signal Using Artificial Intelligence**” (202341011889).
- Patent published in March 2023, title of invention is “**Forecasting Practices Used in Major Manufacturing Firms**” (202321012869).
- Design published, title of invention is “**Solar Powered Tent**” (381773-001).

## **Personal Dossier**

- **Date of Birth:-** 21<sup>st</sup> Nov 1993
- **Language Known:-** English and Hindi